

Scaling and Linking Relationships between an International Assessment and a Canadian  
National Assessment

by

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### **Abstract**

The education system in Canada is not unified and varies by the provinces/territories. National and International large-scale assessments such as the Pan-Canadian Assessment Program (PCAP) and the Programme for International Student Assessment (PISA), provide an idea on how students in Canada are performing in participating provinces, and Canada as a whole. Although both tests target at students of different age and grade levels, they assess the same core content domains. There are interest in understanding the relationships between PCAP and PISA, and the comparability of their test scores. This study serves as the first study in Canada to establish linking and scaling relationships between the two, by testing two methods of vertical scaling and concordance: concurrent calibration using IRT, and equipercentile with post-smoothing. The study design is also unique as there was no common item between the two tests and the student samples were not equivalent. Relationships between the two tests in regards factors such as frameworks and test specifications were examined, followed by the linking procedures. The contents of mathematics and science were the focus of this study. There were four conditions tested for each procedure based on the content and whether they were the major or a combination of major and minor domains for the two tests linked. Data from PCAP 2010, PCAP 2013, PISA 2012, and PISA 2015 were used to create the four conditions. On evaluations of linking results, means, correlations, and population invariances by language groups of English and French were conducted using graphical comparisons and the calculation of Root Expected Mean Square Difference (REMSD). Results have found that at certain degrees, the two tests were similar in terms of framework and test specification, however categorizing items by subdomains from both tests together as a group would be difficult due to their differences in subdomain definitions and categorizations. Linking results from equipercentile method have



suggested different post-smoothing parameters for each condition, and for both linking methods, they tend to agree with each other on their resulting scales. For all conditions, population invariance of language did not hold. English group tended to be closer to the total group than the French group, and there were smaller deviation of the French group for science in comparison to mathematics. Although results of this study seemed inconclusive and should be interpreted with cautions, it established new grounds for future studies. A list of future studies were suggested including the use of propensity score matching to create equivalent groups for linking, and also the suggestion to further test other methods of linking as comparisons.

### **Preface**

This thesis is an original work by Karen Fung. The research project, of which this thesis is a part, received research ethics approval from the University of Alberta Research Ethics Board, Project Name “Scaling and Linking Relationships between an International Assessment and a Canadian National Assessment”, No. Pro00089007, March 22, 2019.

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## **Scaling and Linking Relationships between an International Assessment and a Canadian National Assessment**

### **Chapter 1**

#### **Introduction**

##### **Research Background**

Educational systems and policies vary depending on which province or territory one resides because education in Canada is governed at the provincial or territorial level. When the educational systems are different within the same country, the types of educational assessments used to evaluate student learning are also expected to differ. Within classrooms, teachers may use evaluation methods that they have previous exposures to, or methods they are most experience and comfortable with (Oleson & Hora, 2014). Additional factors, such as the goals of the educational systems within the province, may also affect teachers' evaluation strategies, which, in turn, affects the assessment outcomes and inferences that can be made about student learning. For example, the use of a number of large-scale assessments (LSA) in a province may change the way teachers teach and evaluate their students – that is, evaluations structures and item types within the classroom may become similar to what will be evaluated on the LSA to improve the chances of students' success on these LSA (i.e., teaching to the test), instead of measuring their actual learning of the curriculum (Seitz, Chu, Fung, Latifi, 2013; Supovitz, 2009).

The number of LSA administered to students in each province or territory may differ because of differences in educational policies within Canada leading to variabilities among assessments including assessment formats, item types, and performance tasks (Chu & Fung 2017; Fung & Chu, 2015). Such variabilities become an issue when students' scores are

compared for high-stakes purposes such as admission to universities, or competing for scholarships (Fung & Chu, 2015). It will also be difficult to evaluate the overall learning and achievement of Canadian students as a whole for the purpose of informing policies at the national level. In order to produce clear and interpretable information on student learning outcomes at the national level, the Council of Ministers of Education, Canada (CMEC) developed the Pan-Canadian Assessment Program (PCAP) for the purpose of providing information on performance for Canadian student overall by identifying a common curriculum across the country. Formerly known as the School Achievement Indicators Program (SAIP) before changed to reflect curricular outcomes, the PCAP is used to evaluate a random sample of eighth grade students in Canada on Reading, Mathematics, and Science. According to O'Grady, Fung, Servage, and Khan (2018), information gained from PCAP "provides ministers of education and other stakeholders with a basis for examining their provincial curriculum and other aspects of their school systems" (p. 1).

When LSA are administered across Canada, they may provide information on understanding Canadian's education as a whole, given its diversity from coast to coast. The results of the LSA help assist decision makers by providing information at the larger system level. In addition to the participation of PCAP in the provinces, some provinces also participate in international assessments such as the Programme for International Student Assessment (PISA) which is used to evaluate 15-year-olds in Mathematics, Reading, and Science, and the Trends in International Mathematics and Science Study (TIMSS) for evaluating Mathematics and Science in fourth grade and/or eighth grade students. These international assessments provide information that allows educators to evaluate Canada's standing when compared to other participating countries. These results also allow provincial test performance to be evaluated

within Canada due to their rigorous procedures on sampling participating students. Results from these international assessments may be used alongside results from PCAP so that provinces and territories can validate, evaluate, and improve their own assessments programs (O'Grady et al. , 2018; O'Grady & Houme, 2014).

One important question that does arise when using the results of both national and international assessments for the purposes of provincial/territorial reviewing of their educational policies and assessment programs is the comparability of test scores. Although the scores of these assessments might be numerically on the same scale (e.g., mean of 500 and standard deviation of 100), this does not indicate the scores from different assessments can be compared to one another due to many reasons. One of the major reasons is the possible difference in the test content, regardless of whether the two assessments claim to be evaluating the same content areas. When two assessments are evaluating the same content areas there are possibilities that their identified subdomains, and the distribution of items for these assessments within each subdomain vary from one test to the next – difference in test specifications. Another reason is the difference in target examinees, usually the age group of the students in the testing sample. When assessments are developed for a particular group of target students, the difficulty of the items should be designed to be appropriate for that student group. The assessment inferences become invalid or meaningless when the items are too difficult or too easy for the target group. Difficulty differences can also cause a problem when one attempts to make comparisons of scores between assessments, whether they are measuring the same constructs or not. With the two major reasons discussed here, it is important to note that without proper procedures to align the scores between assessments, the score comparisons could be meaningless even though the students obtain the same numerical scores across the two tests.

Fortunately, it is possible to align the scores from different tests, thereby putting them on the same scale and place some level of equivalency between the scores. In the field of psychometrics, there are established procedures in place that allow for such score comparisons to be made. Equating, linking, and scaling are methods that are commonly used to solve the problems with comparability of scores within and between tests. It is also important to have a plan for equating and linking prior to the development of a test, especially when multiple forms are used. The details of these methods will be discussed in Chapter 2. In brief, *scaling* is the transformation of students raw scores (i.e., total scores obtained by the students) to a common metric (i.e., scale scores) so all students with raw scores are placed on the same scale (Kolen & Brennan, 2004). *Equating* addresses the differences in difficulty between forms of a test by using statistical procedures to adjust the scores (Kolen & Brennan, 1995). *Linking* addresses the issue of score comparability between different tests (Kolen & Brennan, 2004). These three methods usually go hand-in-hand as they are often discussed together due to their related concepts and their frequent use.

Because educational policies in Canada vary from province to province, there is much interest at the provincial levels about better understanding student learning through the use of difference resources, especially assessments results gained from national and international tests (Canadian provincial assessment programs coordinators, personal communications, October 28, 2016). By incorporating the methods of linking and scaling, the purpose of my dissertation research is to demonstrate the appropriate procedures to establish score comparability between different tests, thus the results would provide another channel for educators and policy makers about how to use multiple assessment results for reviewing student outcomes across different

system levels in education. This study is important because linking of two LSA was never done before using data from Canada.

### **Purposes of Study**

In order to evaluate the appropriateness of methods for establishing relationships between two LSA using the Canadian data, linking methods will be tested in attempt to make the scores of these tests comparable. This study will focus on one national test and one international test, the PCAP and PISA, respectively. PCAP is the only national program that is used to evaluate student learning and is only for grade eight students. As participations of assessments are decided at the provincial levels, PISA is a very popular choice for international assessment among the provinces. In Canada, the relationship between PCAP and PISA is worth examining for two reasons: First, the student cohort who wrote PCAP in grade eight would be the same student cohort writing PISA when they are 15-year-olds, although the samples of participating students may consist of different students. In addition, the major subject domain in PCAP would be the same major subject domain in PISA for the same cohort of students writing the two tests two years apart. Second, PCAP and PISA are used to evaluate the same content areas (i.e., Reading, Mathematics, and Science) therefore examining their assessment frameworks and item allocations would provide new insights on the similarity of content across the two tests.

In this study I will answer the following three questions and address the different conditions in order to compare the test results:

1. Can a scaling and/or linking relationship be established between PISA and PCAP? How comparable are the scores between the two tests?
2. When comparing different scaling and linking methods, which approach works best and under which conditions?



3. Are there any differences in scaling and linking results by content areas and language group?

Two content areas (i.e., Science and Mathematics) will be the focus of this study because Science and Mathematics are the most recent two PCAP and PISA content areas where data are publicly available for research use. Although reading was the major domain for PCAP in 2016, it will not be the major domain for PISA until 2018, and data was be publicly available until late 2019. In addition, there was a change in PCAP target sample in 2010 from 13-year olds to grade eight students (i.e., changed from using age as a criterion to grade level), the 2007 PCAP data with reading as major domain will cause more complications into the linking. Language of the tests will also be used for comparisons of linking results because Canadian students can write the tests in English or French. Both PISA and PCAP administer their tests in both official languages in Canada – English and French, depending on which school boards the schools are located in.

This study is a combination of both a scaling and a linking research because linking methods are used to establish common, comparable scales for two tests. The linking methods that will be used in this study include *concordance* and *vertical scaling*. Due to the complexity of the research design as the same cohort of students were in the sampling frame for both tests at different time periods, and sampling are done independently for each test, it is unknown how stable the population would be to determine growth of the student cohorts or the predictability between the two tests, therefore this study is not meant for determining any predictability relationships between the two despite the desire to do so. Although there is a strong link between scaling, linking, and equating, this study is not an equating study because the goal is to establish relationships between *different tests* (i.e., linking), instead of establishing relationships between forms of the *same test* (i.e., equating). In addition, there is no common item between tests, and

students are not from the same grades. Definitions, similarities, and distinctions between the three concepts will be discussed in Chapter 2. Details of linking methods will also be discussed in Chapter 2, and methodology of this research will be discussed in Chapter 3. Chapter 4 will present the results of the study, and Chapter 5 will provide a summary with the conclusions, limitations, and future research.

### **Significance of Study**

This study is important because such linking relationships between PISA and PCAP have never been examined in Canada. Results will be useful within Canada as it provides support on the use of multiple assessments as resources on informing decisions and evaluate student learning. It may also assist stakeholders and educational policy makers at the provincial and at the national level on the successes of their educational programs. By linking two LSA together, scores are made to be comparable so test results can be compared with one another. This study is also important for identifying which linking approach is best used in conditions such as similarity of content areas, the linking of major and minor domains, the targeting samples from different grades, and when more than one language groups are involved. In addition, the design of this research does not fit perfectly well into the traditional data collection designs of many linking studies, for example, the sampling for linking of two major domains from the two assessments came from the same cohort of students drawn in different years. By exploring different approaches of linking with such design further enhances the knowledge in the field of psychometrics.

## Chapter 2

### Review of the Literature

In this chapter I present the purposes and the relevant research on scaling, linking and equating. Differences between these topics will be briefly explained, and the different types of scaling and linking methods will be discussed, including Classical Test Theory (CTT) methods, and Item Response Theory (IRT) methods. Relevant research is also presented on how these methods are used in the educational context, their strengths and weaknesses, and why they are important in the field of assessment. Although assessments are done in many contexts, tests used in the educational context, mainly standardized tests will be the focus of this literature review.

#### Comparability Within, Between, and of Assessments

Before the discussion of linking and equating, it is important to understand the nature and development of assessments. This section provides a review of basic assessment development concepts and procedures. Two levels of comparability will be discussed – (1) comparability *within the same administration*, and (2) comparability *between different administrations*. These two levels of comparability can be applied to a single test.

**The need for multiple test formats.** Standardized tests are commonly found in education. These tests are regularly used to measure students' learning and knowledge with purposes including improvement of teaching, informing education policy making, reviewing and improving of curricula, program evaluations, and the diagnostic, classification, selection and placement of students (Bloom, Hastings, & Madaus, 1971; Mehrens & Lehman, 1991; Thorndike, 2005). As Leighton and Gierl (2011) stated: “policy makers recognize that large-scale educational testing for students in kindergarten through grade twelve can be a powerful

measure of accountability and a driver of educational reform and improvement.” (p. 6).

Standardized tests have become a common tool that is used to evaluate students.

When standardized tests are regularly administered, large numbers of items are required for several reasons – test security is one major concern, whether the test is high-stakes or not. The development of items with the help of content experts are effortful, timely, and expensive. For a high-stakes test, Rudner (2010) estimated that it would cost between \$1500 to \$2000 to develop one operational item. Therefore, it is important to avoid over-exposure or repeatedly using the same items over different administrations. To ensure validity of the assessment, it is also important to prevent student cheating and the “leaking” of items by the students. With the growing popularity of computer based tests (CBT), test security becomes a major concern. To help avoid item exposure multiple test forms are often developed. Having multiple forms of a test means each version includes variations of items. Although there are variations, they are parallel to one another in terms of test format, content, length, and their psychometric properties such as difficulty level, thus becoming parallel forms. The structure of each form needs to meet the same requirement stated in the test specifications or the blueprint. The differences between forms do not necessary mean all the items across forms are different, they could simply differ by the ordering of the same items, or the forms may share a few similar items with the rest being different. According to Gierl (in press), parallel forms are secured tests while maintaining the fairness in test administration, and that forms are equitable for all students writing the tests.

**Comparability.** When parallel forms are used, the comparability of scores across forms should be considered during the test planning stage. Factors such as content similarity, scaling metrics, and the difficulty levels across forms should be taken into account. This is where score comparability *within the same administration* is important and test forms should be carefully

planned during the test development stage. Such comparability ensures students' scores are on the same metric, thus implying the same levels of achievement and abilities. Test forms are also important when it comes to the administration of the test to different cohorts of students so a trend can be established for comparisons over time. Changes and improvement to a test will occur as more data were obtained, causing changes to the test forms or test versions as well.

Scores comparability *between different administrations* of the same test becomes important to ensure the establishment of the trends. To increase test security and to avoid over exposing the items, items administered to students in different years will not be exactly the same, therefore such comparability is important so student scores in the past years are comparable on the same scale as student scores in the recent years, given the changes of the test are not due to changes in the curriculum. Aside from comparability of scores between administrations of the same test, comparability of scores in *different tests* can also be performed to detect consistencies of student performance in tests aimed to evaluate the same content areas, in which comparability and predictability of scores can be made for improving educational policies, teaching, and curricula. Such comparability among different assessments is also the primary interest of this research.

The three notions of scores comparability discussed above lead to the idea of scaling, linking, and equating. These are procedures and methods commonly used in educational assessments to ensure equivalency of score scales, which also address for the possible differences in difficulty between forms and/or tests.

### **Scaling, Linking, and Equating**

Although scaling, linking, and equating have been discussed since the early twentieth century as measurement topics, they did not receive much attentions until the 1980s as the

number of testing programs increased, and the desirability of comparing test scores such as the ACT and the SAT (Brennan, 2006). The concept of scaling, linking, and equating is important when a test has parallel forms, and are being administered either within the same administration, or across different time periods. One cannot easily conclude a test score of 90/100 or 90% for student A is better than a score of 85/100 or 85% for student B when they have taken different forms of the same test. The same idea applies when student A and student B took the same test in different administrations or years, in which different forms of the test are commonly developed for test security purposes. Even though all of the test forms are parallel and are assessing the same content, following the same test specifications, their difficulty at the item level and at the test forms level could vary, despite how carefully the test forms are assembled, and how closely the forms are matched in regards to test content, length and formats. Scaling, linking, and equating provide solutions to these comparability issues, allowing the equated or linked scores to be used interchangeably or comparably.

**Defining scaling, linking, and equating.** Although they may sometimes be confused with one another, the three terminologies can fall under the same umbrella while they have their own distinctions. When raw scores (initial scores obtained by the examinees) are difficult to interpret, for example, the meaning of 95 out of 100 for a student aside from getting 95% of the items correctly, transforming the raw scores through *scaling* onto scale scores would make interpretations easier. Scaling is the procedure of converting a raw score into a scale score, and to be specific, it is “the process of associating numbers or other ordered indicators with the performance of examinees on an educational test... the process of scaling produces a *score scale*, and the scores that are used to reflect examinee performance are referred as *scale scores*” (Kolen, 2006). An example of scaling includes converting student raw scores on a test into a

scale score with a mean of 500 and a standard deviation of 100. Scaling, along with the equating procedures, falls under the umbrella of the term *equating*. Equating involves the process of converting raw scores to scale scores, in addition to produce interchangeable scores between parallel forms with the use of statistical procedures, which address to the concerns of differences in difficulty between forms, but not to the differences in content (Fung, 2011; Kolen & Brennan, 1995, 2004, 2014). Equating is widely used in educational assessments when parallel forms of a test are used. It is also used for establishing score equivalency across different years of administrations and therefore trend comparisons can be made. The outcome of equating allows for the interchangeable use of scores between forms once they are placed on the same scale, since the difficulty and score metrics have both been addressed through the processes. Equating and scaling are commonly used for equivalency of scores of the same test, while *linking* addresses comparability of scores from different tests.

Holland and Dorans (2006) defined *linking* as the transformation of scores from one test to another. Such transformation establishes a *link* between the two tests. It is difficult for two tests to be similar in terms of both contents and difficulty, and linking is an adjustment of scores from tests that would vary in contents and/or difficulty (Kolen and Brennan, 2004, 2014).

Holland and Dorans (2006) further described that, when linking is involved, three methods are included in the procedure – predicting, scale aligning (i.e., scaling), and equating. As discussed previously, equating involves both scaling and equating procedures for the same test; linking introduce another layer of prediction in addition to its scaling and equating properties when different tests are compared. Scaling and equating in linking for different tests are based on similar concepts as equating for one test. In summary, scaling is the process of putting forms or

tests on the same scale, equating creates interchangeable scores across forms for a single test, and linking establish comparability of scores between different tests.

This section has provided an overview on the difference between the concepts of scaling, equating, and linking, which further leads to the primary interest of this research – interchangeability and comparability of scores between two tests. With these initial concepts in mind, the following sections will focus on the topic of linking as described by Holland and Dorans (2006) as an “upper” category which includes equating and scaling as subcategories.

### **Categories of Test Linking Methods**

Linking as discussed by Kolen (2004) using the term *comparability* by Flanagan (1951) as “scores on tests that were scaled so that they had similar score distributions in a certain population of examinees” (p. 220). According to Holland and Dorans (2006), linking is divided into two types: *direct* and *indirect*: a *direct* link is the direct connection of scores from one test to another, while an *indirect* link connects two tests through a common connection of both, often a third scale or test. The *predicting* and *equating* categories of linking are often *direct* link, and most subcategories of *scale aligning* produce *indirect* link (Holland and Dorans, 2006). We should go back to the discussion on the three categories of test linking methods and their distinctions described by Holland and Dorans (2006): *Predicting*, *Scale Aligning*, and *Test Equating*.

**Predicting.** Predicting has been commonly confused with other forms of score linking although it is the oldest form (Holland & Dorans, 2006). *Predicting* is the use of examinee’s information such as score(s) from other test(s) or demographic information to predict the person’s scores on a test form. It is considered the least restrictive type of linking (Dorans, 2004). Such predictability is similar to the notion of linear regression. One way of prediction is



the *projection* of scores from one test to another. And such projection of scores can be made from observed scores to observed scores (i.e., direct link of observed scores), or from observed scores to true scores. True score, under the CTT approach, is an average of the observed scores that one would obtain if measures were repeated infinite times under similar conditions (DeMars, 2010). An obtained score without error is the true score under the CTT approach. With the IRT approach, as Brennan (2006) explained the differences, true score is described by the test characteristic curve (TCC) for a fixed set of items, and an generalizability theory approach to true score (i.e., universe score) would be the expected value over random parallel forms (p. 7).

**Scale aligning.** The idea of scale aligning (or scaling) has been briefly discussed in an earlier section. The goal of scale aligning is to transform scores from different tests onto a common scale, thus creating comparable scores (Holland & Dorans, 2006; Kolen, 2006). Scaling, is an *indirect* linking as two tests are linked to a common (third) scale. It can be applied in two different scenarios: *dissimilar constructs* and *similar constructs* and each case has their associate subcategories of scaling approaches (Holland & Dorans, 2006). The following figure illustrates the umbrella of scaling and its different approaches on which suit best under each scenario.

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*Figure 2.1.* Categories of scaling approaches. Reprinted from “*Linking and equating*” by P. W. Holland and N. J. Dorans, 2006, in R. L. Brennan (ed.), *Educational Measurement (4<sup>th</sup> ed.)*, p. 190, Westport, CT: Praeger Publishers.

**Battery scaling.** This approach of scaling is to be applied when two tests have different constructs but share the common examinees population. According to Holland and Dorans (2006), the history of battery scaling can go back to Kelley (1914)’s description of the same mean and variance given to the scores on different tests. The concept of different constructs was further illustrated for common population as comparable measures, or comparable scores by Kelley (1923) and Angoff (1971) respectively. The samples for battery scaling, are either (a) one sample of examinees with everyone taking all the tests, or (b) multiple random-equivalent samples drawn from the same population taking some of the tests (Holland & Dorans, 2006). Battery scaling produces an indirect link between tests, allowing comparability between them by

placing them on the same scale. However such comparability does not indicate a conversion of scores from one test to another.

*Anchor scaling.* Also known as the statistical moderation (Mislevy, 1992; Linn, 1993), this approach is useful when the assessments are measuring different constructs, the examinees came from different populations (i.e., non-equivalent), and what they have in common is the anchor test (anchor measure) all examinees are writing. Anchor scaling is considered as an approximation of battery scaling due to the possible inequivalence of samples taking each test, and that it would also involve missing (incomplete) test data as some tests might be intended for certain subgroups (Holland and Dorans, 2006). An anchor measure adjusts for the inequivalent between the different groups taking the different tests. For example, tests where examinees were asked to choose the test based on which language they were taught in, in this case the groups of examinees will differ based on languages (Holland and Dorans, 2006). Therefore, the anchor measure is used as an assumption of the linking tests, and the scaling results depend on the strength of the relationship between the anchor measure and the linking tests. The stronger the relationship, the more likely the assumption of population invariance will hold. This assumption is important when using the anchor scaling approach such as the scaling on a hypothetical population (SHP; Holland & Dorans, 2006). The SHP approach is one of the approaches for “anchor measure” in Figure 1 above. It is similar to the projection approach in which a hypothetical population distribution is estimated with the use of an estimated conditional distribution (this estimated distribution includes the test to be scaled and the anchor measure).

Another approach to anchor measure is *scaling to the anchor* (STA). Data from examinees who took both the test to be scaled and the anchor measure will be used for estimating the linking function (Holland & Dorans, 2006). A distinction between STA and SHP discussed

above is that the STA requires the anchor measure to be a single score, while the SHP may involve more than one scores as anchor measures.

***Vertical scaling.*** When tests are testing similar constructs, with similar reliability, but different levels of difficulty and different populations of examinee, vertical scaling (Kolen & Brennan, 2004) or calibrating tests at different levels of ability (Angoff 1971) provides a solution to this problem. Vertical scaling can be used when assessing a particular construct, and different versions are tailored for different target age or grade levels, thus different level of difficulties between versions arranged in increasing order – vertically (Holland & Dorans, 2006; Reckase, 2010). In such cases, these different grade versions can be placed on a common scale (an indirect link) for the purpose of tracking performance overtime. Vertical scaling is a popular method of tracking student growth (Lei & Zhao, 2012). One particular design – the scaling test design (Kolen & Brennan, 2004) can also be used specifically in vertical scaling. In this design, the test is designed to span all target grades, with contents covering all the grade ranges, so all students from different grades will take the same scaling test. Students from younger grades will be asked to try their best when items are difficult for them. In addition to writing the scaling test, students will also be asked to write a test for their appropriate grade level. The scaling test will then acts as a common measure for constructing the scale score, and the grade level test will be linked to the scaling test (Kolen & Brennan, 2004).

Some of the methods for vertical scaling include the use of SHP and STA as discussed in the previous section, in which anchor measures can be administered to grades that are closer to each other (neighbouring grades), then linking those neighbouring grades together by putting them on a common scale. Such linking can be done until all grades have been aligned linked to form a vertical system. Other methods of vertical scaling are the use of item response theory

(IRT) and the Thurstone method. Scaling and linking methods will be further discussed later in this chapter.

**Calibration.** The word calibration is commonly used in the field of psychometrics. For example, in IRT, calibration is the estimation of item parameters (Holland and Dorans, 2006; Petersen, Kolen, & Hoover, 1989). In regards to linking, Linn (1993) referred to calibration as methods of score linking that measure the same construct with different reliability or difficulty. For scaling, calibration is the linking of scores from a short form of a test onto the scale of its longer/full form (Holland & Dorans, 2006).

**Concordances.** When tests that measure related but different constructs (or similar constructs but based on different test specifications), concordance can be used (Holland & Dorans 2006; Pommerich & Dorans, 2004). Concordance is sometimes referred as distribution matching (Linn, 1993; Mislevy, 1992; Yin, 2004). According to Pommerich and Dorans (2004), concordance has a close relationship with equating because the methods used for equating parallel forms of a test can also be used for concordances. Some observed score equating/linking methods used in concordance include the linear method for transformation, the parallel-linear method, and the equipercentile method. The commonly used equipercentile method will be discussed further in the later section. Results of concordance are related or concordant score points for the tests that are linked, thus creating a direct link between the two forms (Holland & Dorans 2006; Pommerich & Dorans, 2004). One popular example on the use of concordance is the linking between the SAT I and the ACT, two college admission test in the United States of America. Dorans, Lyu, Pommerich, and Houston (1997) conducted concordances between SAT I V+M (i.e., Verbal and Mathematics) and both the ACT Sum and the ACT Composite to determine how they can be related (Dorans, 2004). The results produced concordance table

listing the equivalency of test scores among the SAT and the ACT. The concordance table, according to Schneider and Dorans (1999), would be a useful tool for individuals such as high school counselors, and college admission counselors for guidance and admission purposes because while the tests differ, the counselors could use the tables to ensure that score from each test were used to make the same decisions about students, allowing for fair comparisons between student performances.

**Test equating.** The result of test equating is a direct link between scores on two test forms. The purpose of equating is to create interchangeable or translatable scores between the test forms (Holland and Dorans, 2006; Muraki, Hombo, & Lee, 2000). In order for equating to be performed, the two tests to be equated should be measuring the same construct, at the same level of difficulty, and at the same level of accuracy (i.e., reliability). Equating is the strongest type of linking (Holland & Dorans, 2006; Kolen & Brennan, 2004; Linn, 1993; Mislevy, 1992). Its primary goal is to ensure the elimination of differences in difficulty among different forms of a test so that examinees completing different forms can be compared fairly with their interchangeable scores – an issue of fairness especially in high-stakes assessments (Holland & Dorans, 2006). The following figure illustrates the different linking methods within test equating.

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*Figure 2.2.* Types of linking methods for test equating. Reprinted from “*Linking and equating*” by P. W. Holland and N. J. Dorans, 2006, in R. L. Brennan (ed.), *Educational Measurement (4<sup>th</sup> ed.)*, p. 194, Westport, CT: Praeger Publishers.

Although test equating is an important topic, this research will focus primarily on establishing links between two different tests with different levels of difficulty and constructs that are not exactly the same. The next section provides a brief discussion on common data collection designs for administering test forms or different tests. These designs will also help to determine which linking approach is best used for establishing linking relationships between forms/tests.

### **Data Collection Designs**

Designs for data collection are required to link test scores (Kolen & Brennan, 2004). The type of data collection design chosen determines the analytical procedures that can be used to link the scores. Four major designs can be used for linking: Random groups design, single group design, single group design with counterbalancing, and common-item non-equivalent groups design. The follow figure illustrates each of the design.

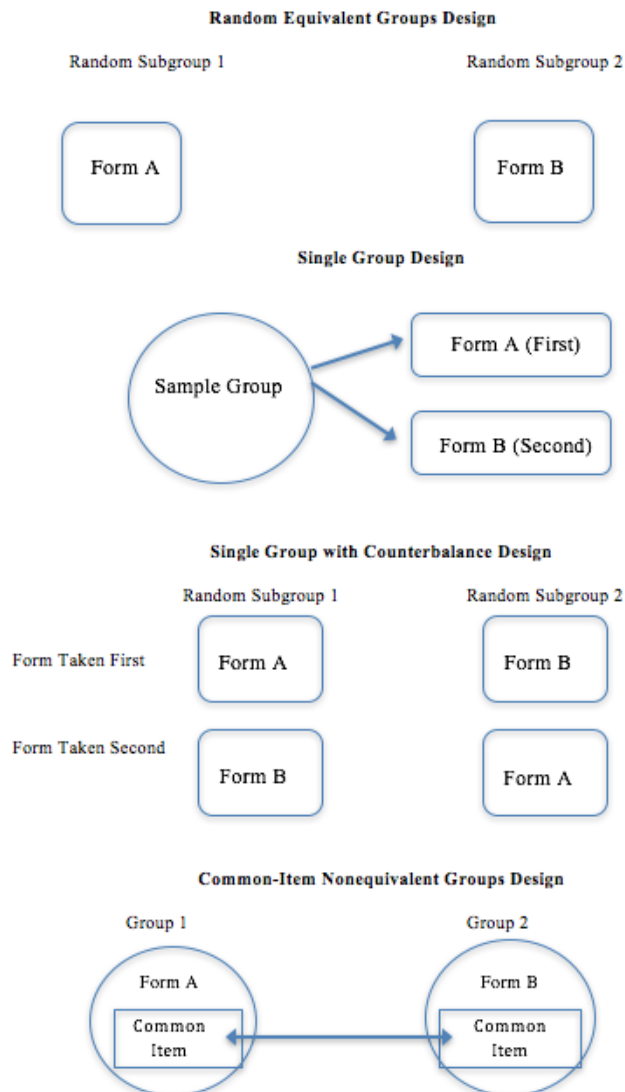


Figure 2.3. Illustrations of data collection designs. Adapted from *Test Equating, Scaling, and Linking: Methods and Practices 2<sup>nd</sup> ed.*, by M. J. Kolen & R. L. Brennan, 2004, p. 14, New York: Springer-Verlag.

**Random groups design.** Also called the *equivalent group design* by Holland and Dorans (2006), the random groups (RG) design requires that two or more forms of an assessment are randomly assigned to examinees using the *spiraling* process (Kolen & Brennan, 2004, 2014). One way of using the spiraling process is to order the test forms in a systematic order, for example, if a test has two forms (Form A and Form B), the ordering of the forms will alternate



each other: Form A, Form B, Form A, etc. The first examinee will be assigned to write Form A, the second examinee will write Form B, the third examinee writing Form A, and so on. If a test has three forms, the same logic follows for ordering, (Form A, Form B, Form C, Form A, Form B...). The use of this method allows for *randomly equivalent groups* for each form, with a major advantage of requiring each examinee to write only one form of the test, and thus the difference in achievements between the forms will only be due to their differences in difficulty (Kolen & Brennan, 2004, 2014).

With the RG design, administrations of the forms need to happen at the same time due to test security issues such as cheating, and it may not be possible in some testing situations because of factors such as availability of test administration spaces for large numbers of examinees. Test form security could also be an issue when many forms are administered. In addition, a large enough sample per form is required to ensure accurate equating.

**Single group design.** The single group (SG) design is not often used in the field due to its practicality issues. In this design, one group of examinee writes both forms of an assessment, which raises a few problems with this design such as fatigue in the examinees because of longer testing time, practice effects as the examinees are likely to see similar (or even the same) items more than once, and order effects on which form should be presented first (Fung, 2011; Kolen & Brennan, 2004, 2014). Administration of both forms to the same group of examinees also makes interpretation of results difficult when confounding factors listed above are involved. Due to the unpopularity of the SG design, the single group with counterbalancing design could be used instead to address some of the issues in the single group design.

**Single group with counterbalancing.** This design is based on the single group design, with the use of counterbalancing (CB) for ordering the administration of forms to examinees.

The use of CB addresses the issue of order effect. One approach of using CB is to divide the examinees into two groups, one group will be writing in the order of Form A followed by Form B, while another group will be writing in the order of Form B followed by Form A – thus CB of the forms between examinees. The two forms combined can be viewed as a version of the test. The grouping of examinees can simply be alternating the tests for each person. As illustrated in Figure 3, subgroup 1 will be writing Form A first followed by Form B, while subgroup 2 will be writing the forms in the reversed ordering. When equating the forms, it would be expected that equating relationships will be form between Form A and Form B when they were written first within a test. However, it is possible that an effect known as *differential order effect* occurs when the equating relationships between Form A and Form B in the first portion of the test and the relationship between Form A and Form B in the second portion of the test differ. When such effect occurs, data from the second portion of the tests might need to be disregarded, and instability of equating could result (Kolen and Brennan, 2004, 2014).

**Common-item non-equivalent groups design.** This design is frequently used in assessments and would be very useful when different forms of an assessment cannot be administered on the same date (Kolen & Brennan, 2004, 2014). As stated by its name, *common item* refers to a set of items that are the same across the forms of a test. It is the same set of items all examinees will be writing, while the rest of the items on each form vary. *Non-equivalent groups* refers to different groups of examinees writing the different forms. Such design is very common when a test is written by examinees in different years, in such case it is necessary to create multiple forms each year for test security purposes to avoid item exposures. Common items written by all examinees are also known as *anchor items*, and the group of anchor items contributes to an *anchor test*. *Anchor test* can be classified as *internal* and *external*. When an

anchor test is *internal*, items were embedded as part of the test form and will contribute to the total score, which adjusts for the differences in the samples of examinees taking the forms (AERA, APA, & NCME, 2014). The anchor test is *external* when it does not contribute to the test score and is written at a separate time period from the test form for scores (Kolen & Brennan, 2004, 2014). In regards to the characteristics of the anchor test, it should be proportionally representative of the test forms (i.e., a mini-version of the test forms) – content wise, statistics wise, and behavioural wise (Angoff, 1971; Dorans, Moses, & Eignor, 2010; Kolen & Brennan, 2004, 2014). The items should hold the same locations in each of the form, and these items should be exactly the same in terms of wording. The rule of reliability also follows for anchor test, in which longer anchor test is more preferable as it generates lesser random error in equating (Budesu, 1985; Ricker & von Davier, 2007). However, as the number of anchor items increased, the improvement in equating might not be practically significant. As suggested by Yang and Houang (1996), the desirable number of anchor items should be at least 20 items in test forms or one-fifth of the total test length. The common-item non-equivalent groups design is also commonly known as the *anchor test* or *non-equivalent groups with anchor test (NEAT)* design (Holland & Dorans, 2006).

**Considerations on choosing a design.** Choosing a design for equating or linking depends on what situation is more feasible. Each design has advantages and disadvantages. Overall in terms of sample size, the SG design requires the smallest number of examinees in the sample, and the RG design requires the largest number in the sample, with the NEAT design in between, which may vary due to the anchor test's correlation with the test forms and the group differences between those taking the forms (Holland & Dorans, 2006). The design chosen will also have an impact on which scaling, linking or equating procedures that can be used to

establish relationships between tests. The next section describes some common procedures for scaling and linking.

### **Scaling and Linking Procedures**

When linking is performed, Pommerich, Hanson, Harris, and Sconing (2004) described a four-staged process to assist researchers on proceeding and making decisions in linking: (1) choosing an appropriate linkage type and methodology; (2) linking scores and computing summary measures; (3) evaluating the quality of the linkage and determining what to report; and (4) making recommendations for the interpretation and use of the linkage results (p. 248). In identifying appropriate procedures for scaling and linking, Holland and Dorans (2006) discussed three factors that should be taken in consideration: (1) whether the data collection design involves common population or common items; (2) whether the linking procedures involves observed scores or true scores; and (3) whether the methods are linear or nonlinear. The following sections describe some common methods and procedures based on different factors. The focus will be primarily on procedures for two types of linking: vertical scaling, and concordance as these types are the most relevant to this research.

**Procedures for vertical scaling.** Some common procedures of vertical scaling are based on IRT, and it makes the creation of scales more straight forward when more than one grades of performance are involved (Reckase, 2010). In brief, there are two basic ideas in IRT: (a) examinee's performance on a test item can be predicted or explain by factors known as traits, latent traits, or abilities; and (b) a monotonically increasing function called the *item characteristics curve* (ICC) is used to describe the relationship between examinees' performance on an item and their abilities (Hambleton, Swaminathan, & Rogers, 1991). On the ICC, the x-axis is the theta, or the examinees' ability, listed from the lowest on the left to the highest on the

right; the y-axis of the ICC indicates the probability of answering an item correctly. The shape of the ICC can also be used to identify the characteristics or parameters in an IRT model, depending on which of the three parameter logistic models is used.

**Dichotomous IRT models.** The three IRT logistic models: the one-parameter (1PL), two-parameter (2PL), or the three-parameter (3PL) logistic model can be used for vertical scaling. In a 1-PL model, the location parameter or the item difficulty parameter is assumed to be the only item characteristics influencing examinee performance, and the following formula defines its ICC:

$$P_i(\theta) = \frac{e^{(\theta-b_i)}}{1+e^{(\theta-b_i)}} \quad i = 1, 2, \dots, n$$

where  $P_i(\theta)$  is the probability that a randomly chosen examinee with ability  $\theta$  answers item  $i$  correctly, it is a S-shaped curve with values between 0 to 1 over the ability scale,  $b_i$  is the item difficulty for item  $i$ ,  $n$  is the number of items in the test,  $e$  is a transcendental number with a value of 2.781 correct to three decimals (Hambleton et al., 1999). The 2PL model, similar to the 1-PL model, but with two additional elements – a factor  $D$  which is a scaling factor ( $D = 1.7$ ) to make the function as close to the normal ogive function (cumulative normal distribution) as possible, and the  $a_i$  parameter is also added to the formula as the item discrimination parameter. While the  $b$  parameter is the location parameter on the ICC, the  $a$  parameter is the slope on the ICC at point  $b$ . The steeper the slope, the higher the item discrimination, meaning the item is more useful in separating the examinees based on different ability levels (Hambleton, et al., 1999). The 2PL formula is defined as follow:

$$P_i(\theta) = \frac{e^{Da_i(\theta-b_i)}}{1+e^{Da_i(\theta-b_i)}} \quad i = 1, 2, \dots, n.$$

In the 3-PL model, an additional element is added onto the 2PL model. The  $c_i$ , or *pseudo-chance level* parameter is added to represent a nonzero lower asymptote on the ICC to represent the

probability of examinees with low ability of answering the item correctly, as guessing would be a factor for selected response item (Hambleton et al, 1999). The following formula defines the 3-PL model:

$$P_i(\theta) = c_i + (1 - c_i) \frac{e^{Da_i(\theta - b_i)}}{1 + e^{Da_i(\theta - b_i)}} \quad i = 1, 2, \dots, n.$$

**Polytomous IRT models.** IRT models are not restricted to the three types as the three models are commonly used for selected response items to indicate dichotomous correct or incorrect responses. Other models such as the graded response model by Samejima (1969) can be used for ordered polytomous scoring such as the Likert type rating scales, typically found in open response items. The following equation represents the graded response model:

$$\tilde{P}_{ik} = \tilde{P}_{ik}(\theta) = \tilde{P}(a_i, b_{ik}) = [1 \frac{e^{[Da_i(\theta - b_{ik})]}}{1 + e^{[Da_i(\theta - b_{ik})]}} 0] \quad k = 1, 2, \dots, K_i, k > K_i,$$

where  $\tilde{P}_{ik}$  is the cumulative probability that a randomly selected examinee with proficiency  $\theta$  obtain a score at or above category  $k$  of item  $i$ ;  $a_i$  is the discrimination parameter, and  $D$  the scaling constant of 1.7 discussed earlier,  $b_{ik}$  is the difficulty parameter for categories 2 to  $K_i$ , and  $K_i$  is the number of score categories for item  $i$  (Kim & Lee, 2004).

For items with responses that are scored in a polytomous manner, the *generalized partial credit (GPC) model* can be used. According to Muraki (1992), this model was formulated “based on the assumption that the probability of choosing the  $k$ -th category over the  $k-1^{st}$  category is governed by the dichotomous response model” (p. 4). The following equation defines the model:

$$P_{ik} = P_k(\theta) = P(\theta | a_i, b_{i1}, \dots, b_{ik}, \dots, b_{iK_i}) = \frac{e^{[\sum_{v=1}^k Da_i(\theta - b_{iv})]}}{\sum_{h=1}^{K_i} e^{[\sum_{v=1}^h Da_i(\theta - b_{iv})]}}$$

and

$$Da_i(\theta - b_{ik}) = Da_i(\theta - b_i + d_k),$$

where  $P_{ik}$  is the probability,  $a_i$  and  $D$  has been discussed,  $b_{ik}$  is an item-category parameter, and  $b_{i1}$  is arbitrarily defined as 0 as this value is not a location constant, meaning it could be any value as the term with this parameter would get cancelled out from the numerator and the denominator (Kim & Lee, 2004; Muraki, 1992).

When choosing a model for the data, one would notice that as the number of parameters obtained increase by each addition into the model (i.e., from a 1PL model to 2PL or 3PL model), the amount of information one can obtain increase, however, the use of higher parameter model does not necessary mean better results, it is also important to consider sample size, and to ensure model-data fit so that the chosen model is representative of the data. When an IRT model fits the data well, then the linear transformation of the ability ( $\theta$ ) scale for linking would also fit the data if the item parameters were also transformed in an analogous manner (Lee & Ban, 2010). Two major assumptions hold about the data with the use of IRT model: (a) *unidimensionality* – that each set of items in the test should be measuring only one ability or domain, to which it will be the only factor contributing to the test performance, and (b) *local independence* – that when examinees' abilities are held constant, their responses to any pair of items are statistically independent (Hambleton et al., 1999). Local independence and unidimensionality are both following the same logic, that only the ability or domain factor is the only influencing factor on test performance.

With the selection of an IRT model, there are some estimation methods that can be used to estimate the ability parameters. Examples including the *maximum likelihood estimation* (MLE), which is commonly known in large samples (Hambleton et al., 1999), but according to Gotzmann (2011) the data may not include cases that have all items responded correctly (100% score), or all items responded incorrectly (0% score). Other estimation methods include the

*maximum a posteriori* (MAP), a Bayesian model estimation method, and the *expected a posteriori* (EAP). The MAP and the EAP are very similar, but the MAP has larger average total error and the EAP has a smaller average error in the population (Gotzmann, 2011; Zimowski, Muraki, Mislevy, & Brock, 1996). With the use of EAP, the Bayes estimate is the mean of the posterior distribution of  $\theta$ , with a given observed response pattern  $x_i$  (Bock & Mislevy, 1982; Gotzmann, 2011). The Gaussian quadrature defines its equation:

$$\bar{\theta}_i \cong \frac{\sum_{k=1}^q X_k P(x_i|X_k) A(X_k)}{\sum_{k=1}^q P(x_i|X_k) A(X_k)},$$

where  $X_k$  is one of the  $q$  quadrature points,  $P(x_i|X_k)$  is the probability that  $x = 1$  at  $\theta$  on the ability scale,  $A(X_k)$  are weights on the distribution of  $\theta$  (Bock & Mislevy, 1982; Gotzmann, 2011; Zimowski, et al., 1996).

***IRT methods for vertical scaling.*** To use IRT as the method for vertical scaling, factors discussed above such as which model to use, and what estimation methods apply for the model should be taken into consideration when deciding what suits best for the data. A few common IRT methods used for vertical scaling include concurrent calibration, and characteristics curve methods.

*Concurrent calibration.* During IRT calibration for parameters, for concurrent calibration (CC) all items from all assessments are calibrated together at the same time, placing them on the same scale, with the use of full matrix data while treating missing items not responded by students who did not write the other assessment(s) as “not reached” items (Kim, 2007; Reckase, 2010). According to Kolen and Brennan (2004, 2014), CC might be a more preferable method in theory when comparing to separate calibration (SC) – where each assessment requires its own calibration run for estimates, due to the use of all available data for the single calibration in estimating parameters, CC is expected to have more stable results. However, alternative



considerations with the use of CC include the assumption of unidimensionality could be severely violated due to the assumption that all the assessments included into the calibration as measuring the same dimension. Such violation may cause convergence problem during the calibration (Kolen & Brennan, 2004, 2014). When such problems occur, it may be worth conducting SC as a comparison. Upon SC, it may be necessary to put all the parameters estimates on the same scale using scale transformation procedure as they are group dependent due to the SC (Meng, 2007). One example of the scale transformation procedures is the Stocking-Lord method (Stocking & Lord, 1982).

*Stocking-Lord method.* This is a test characteristics curve (TCC) transformation method which takes into consideration of all item parameters estimates for scale transformation, similar to the Haebara method (Haebara, 1980) which is an item characteristics curve method. Research indicate that these characteristics curves methods are more preferable over the moments methods such as the mean-mean (MM) method and the mean-sigma (MS) method (for discussion of moments method, see Kolen & Brennan, 2014) as characteristics curves methods performed better, produced lower mean squared errors, and provide better estimates (Baker & Al-Karni, 1991; Hanson & Béguin, 2002; Kim & Kolen, 2006; Kolen & Brennan, 2004; Lei & Zhao, 2012). Another advantage of the TCC method is its minimizing of the difference in expected scores rather than in observed score, thus the parameters would be aligned and the variance across replications would be reduced (Yen & Fitzpatrick, 2006). The TCC is a sum of all ICC in a test. With the use of the Stocking-Lord (SL) method, it reduces the differences between TCCs of two tests, by matching the TCC of one assessment to another (i.e., base test), placing them on the same scale (Gotzmann, 2011; Reckase, 2010). The following equation illustrates the squared difference with the SL method:

$$SLdiff(\theta_i) = [\sum_{j:v} p_{ij}(\theta_{ji}; \hat{a}_{jj}, \hat{b}_{jj}, \hat{c}_{jj}) - \sum_{j:v} p_{ij}(\theta_{ji}; \frac{\hat{a}_{ij}}{A}, A\hat{b}_{ij} + B, \hat{c}_{ij})]^2.$$

In IRT, the TCC is defined as:

$$\tau(\theta_i) = \sum_j p_{ij}(\theta_i),$$

which can be found in the formula for the SL method, and therefore  $SLdiff(\theta_i)$  is the sum of the squared difference the TCCs for a given  $\theta_i$ . In the formula,  $\sum_{j:v}$  is the summation over the common items.  $SLdiff$  is then cumulated over examinees, and the estimation proceeds by finding the combination of  $A$  and  $B$  that minimizes the differences (Kolen & Brennan, 2004):

$$SLdiff = \sum_i SLdiff(\theta_i).$$

**Procedures for concordance.** In concordance, the goal is to establish a link between score distributions in a similar manner as equating, to which they have a close relationship with each other (Pommerich & Dorans, 2004; Pommerich et al., 2004). The distributions of concordant scores are typically matched in which the percentages above and below the pair of concordance scores are the same, thus matching of percentile ranks (Dorans, 2004; Kolen & Brennan, 2004; Pommerich et al., 2004). Therefore, the equipercentile methods are commonly used for concordance. According to Yin, Brennan, and Kolen (2004), an advantage of the equipercentile method is that the equipercentile equivalences are within only the range of possible scores, meaning the issues of out-of-range found in linear methods will not exist in equipercentile method.

**Equipercentile method.** The equipercentile method considers scores on two tests as equivalent when there are equal corresponding percentile ranks, or equal cumulative frequency distributions in any given group (Lindsay & Prichard, 1971). This method describes the

differences in difficulty between assessments using a non-linear transformation. The following formula defines the equipercentile function:

$$e_Y(\chi) = G^{-1} [F(\chi)],$$

where  $F$  is the cumulative distribution function of  $X$ ,  $G$  is the cumulative distribution function of  $Y$ , and  $G^{-1}$  is the inverse of the cumulative distribution function of  $Y$ . As a result, the transformed scores on  $X$  will have the same distribution function as scores on  $Y$  (Kolen & Brennan, 2004). In regards to discrete data, the percentile rank functions  $P$  and  $Q$  are used instead of  $X$  and  $Y$  from the previous formula:

$$\begin{aligned} e_Y(\chi) &= Q^{-1} [P(\chi)], & 0 \leq P(\chi) < 100, \\ &= Y_J + 0.5, & P(\chi) = 100 \end{aligned}$$

where  $Q^{-1}$  is the inverse of the percentile rank function for  $Y$ , and  $Y_J$  is the highest score for  $Y$  (Kolen & Brennan, 2004, 2014).

The use of equipercentile equating is often accompanied with smoothing due to the sampling error (or “standard error of equating” in equating) associated with the use of sample percentiles and percentile ranks. The purpose of smoothing is to lower the effects of sampling error by producing estimates of the empirical distributions and the equipercentile relationship to bring it closer to the smoothness characteristic found in the population (Kolen & Brennan, 2004, 2014; Pommerich et al., 2004). One can expect that the larger the sample size, the lesser “adjustments” are required by smoothing as the sampling errors are expected to be lower in large samples. One caution on the “overuse” of smoothing is the introduction of systematic error through the use of smoothing, which might result in poorer estimates of the population distribution (Kolen & Brennan, 2004, 2014; Pommerich et al., 2004). Therefore, it may be worth

determining if smoothing is required for the sample size to maintain a balance between systematic error and the sampling error.

Smoothing methods are categorized into two types: *pre-smoothing* and *post-smoothing*. According to Pommerich et al. (2004), pre-smoothing is to smooth each test distribution before the equipercentile function is used. Examples of pre-smoothing methods including the *polynomial log-linear method*, which takes into consideration of the ordered property of test scores when estimating the test score distributions, and the *strong true score method*, which uses a parametric model for true scores (Brennan & Kolen, 2004, 2014). Post-smoothing is the smoothing of the resulting concordant scores (after the use of equipercentile function) by applying different degrees of smoothing. Kolen and Brennan (2004, 2014) made a further distinction between the two: the focus in pre-smoothing is on finding a method of smoothing score distribution, and statistical tests can be done with pre-smoothing, on the other hand, the focus in post-smoothing is on choosing the degrees of smoothing of the equipercentile relationships, and no statistical test is done with this method.

### **Review of Linking Studies**

The topics of linking and scaling have been widely research in the field of psychometrics and assessments. Much research has been conducted comparing different methods or approaches to linking and scaling under different situations using different tests. The following sections provide a literature review based on the types of research done on the approaches that are focus for this research. This literature review will highlight three topics: (1) the recent research on comparisons of methods and procedures for concordance and vertical scaling such as CC and SC; (2) comparisons of linking methods under different situations such as sample sizes; and (3) the linking of different educational tests.

**Comparisons of linking methods and procedures.** A number of research studies were conducted to compare different linking methods and procedures that are commonly used for concordance and vertical scaling. These studies were conducted to compare the use of CC and SC to determine which method best suit the data. For SC, scale transformation procedures were also compared.

For example, CC and SL of SC for use in vertical scaling of tests in different grades were compared by Ito, Sykes, and Yao (2008) using data of Reading and Mathematics tests from a United States national standardization study for kindergarten to grade 9. With the design of common-item non-equivalent groups, and setting grade 4 as the as the base population, it was found that the two methods generated highly correlated results in terms of item difficulty, discrimination, and estimates of ability. However, when grades were deviated from the grade 4 base, item discrimination started to drift apart between the two methods. This change was more noticeable in Mathematics than Reading, in which the researcher suggested it may due to the likelihood that Reading has a single prevalent trait across grades than Mathematics. In a more recent study, using simulation data based on real testing program, Kang and Petersen (2012) also found comparable results between the CC and SL of SC for the NEAT study design when factors such as the sample size, ability distributions, and the number of common items are manipulated. It is common to use different subject contents when comparing methods, especially in education where students are often tested in different contents, and certain methods may be better fit for particular content area.

In a Canadian study, Pang, Madera, Radwan, and Zhang (2010) evaluated four equating methods using simulations to mimic the data from the Ontario Secondary School Literacy Test (OSSLT), the assessments of Reading, Writing, and Mathematics for grades 3 and 6, and the

grade 9 assessment of Applied Mathematics in Ontario. The four methods compared were CC, fixed common item parameter (FCIP) equating, SL method, and MS equating. Comparisons were made based on the percentages of students at each performance levels, and the percentages meeting the successful and unsuccessful achievement categories. Results have found that across all the assessments, the SC methods (i.e., FCIP, SL, and MS) performed better with smaller magnitude of bias and smaller root mean square error (RMSE) than the CC method.

***Mixed-format assessments.*** Prior research placed more emphasis on single-format tests – tests with only one type of item format such as multiple-choice items. It is now very common to find tests that have a combination of selected response items (i.e., multiple-choice) and constructed response items. For example, international and Canadian national tests such as PISA and PCAP consist of multiple item formats; these items include multiple-choices and constructed responses. Recent studies have investigated more into the multi-format tests, or mixed-format tests as they reflect more on current testing practices. On linking methods for multi-format tests, Kim and Lee (2006) in one study examined the performance of four linking methods (i.e., MM, MS, Haebara, and SL methods) in a simulation study by expanding it to use of mixed-format tests, while testing with two IRT models (i.e., 3-PL, and GPC). Results have indicated that the characteristics curves methods (i.e., Haebara and SL methods) showed less linking error, as measured by the mean square error (MSE) than the moments methods (i.e., MM and MS). With sample size changing from 500 to 3000, MSE values were also smaller. Kim and Kolen (2006) further examined the format effects (FE) that may be found in mixed-format tests. According to Kim and Kolen (2006), Traub (1993) discussed that FE “can occur when the assumption that examinees will process some kinds of items the same way, regardless of format, is violated” (p. 358). Such effects may challenge the unidimensionality assumption of IRT, as the mixed-format

tests have dimensions aligned with item format, thus introducing multidimensionality into the model (Kim & Kolen, 2006). The researchers have tested the robustness of CC, two IRT moments methods (i.e., MM and MS), and two characteristic curve methods (i.e., Haebara and SL) to FEs. Results of this simulation study have found that overall, CC outperformed the moments methods and the characteristics curve methods for each of the three simulated FE levels (none, mild, and severe), which the researchers suggested it as a confirmation of previous studies that CC produces more accurate results than SC (Hanson & Béguin, 2002; Kim & Cohen, 2002). Also with the test of wide- and narrow-tests, the characteristics curve methods seemed to work quite well as CC when FEs are mild. When FEs are severe, CC and characteristic curve methods worked well for the wide-range tests but not the narrow-range test (Kim & Kolen, 2006).

**Research on linking situations.** Simulation studies are often used to generate data under different testing situations with varying factors to enable the understanding of linking methods. These factors include sample sizes and test lengths. In addition to the Kim and Lee's (2006) study discussed previously, Lee and Ban (2010) compared the performance of four IRT linking methods (i.e., CC, SL, Haebara, and proficiency transformation) in a simulation study with random groups designs (same population and different populations), two sample sizes (500 and 3000), and two different numbers of items (25 items and 75 items). The following points summarized the research results by Lee and Ban (2010): (a) in general, SC performed better than CC, except when samples were drawn from the same population where CC outperformed SC methods; (b) Haebara method produced lower linking error than SL; and (c) proficiency transformation procedure performed as well as SC or even sometimes better when both the number of items and sample sizes are small.

Lei and Zhao (2012) examined the effects of sample size, test length, and the choice of IRT CC and SC methods in linear growth estimation for vertical scaling when the 2PL IRT model was used. The researchers have noted that, although previous research such as Skorupski et al. (2003) examined sample sizes of 500, 1000, and 2000 for IRT scaling methods and found no differences in estimating growth in a nonequivalent groups design, few studies compared the methods with small sample sizes and short tests (Lei & Zhao, 2012). By simulating four test lengths (i.e., 10, 20, 30, and 40 items per form), each with 25% common items, and measures from three time points, five methods were compared: CC, SL, Haebara, MM, and MS. Results have shown that CC produced slightly lower total estimation error than SC when the test was short (20 items or less) and when sample was small (100 examinees or less), while in other conditions, the SC methods except for MS produced similar or lower total error. The researchers have also found that regardless of test lengths, CC tends to underestimate growth rate, and SC methods tend to overestimate growth rate.

In another simulation study on group invariance of concordance, Huh and Lee (2009) tested four methods (i.e., linear, parallel linear, unsmoothed equipercentile, and post-smoothed equipercentile methods) under different concordance situations, which differed in test difficulty and test length. There was no common item in each of the concordance situations, and group invariance statistics were computed as a measure. The following results are summarized by the researchers: (a) a group with large difference in ability between subgroups have more group dependency than groups where subgroups have no or small difference in ability, this is especially in the case where two tests are different in test length or difficulty; (b) for the linear and parallel linear methods: the assumption that there is a linear relationship between two sets of scores are not appropriate when two tests different in test difficulty and length; (c) when two tests are



different in difficulty, there was larger group dependency for the linear method than the other methods compared; (d) when scores of two tests are not in a linear relationship, the parallel linear method would be inappropriate to use, however, it does showed small degrees of group dependency across different conditions, especially when subgroup difference was small; (e) linking test with larger number of items showed more group invariant than tests with small number of items; (f) for equipercentile method: the linking of easy test to a hard test showed less group dependency than linking of hard test to an easy test; (g) the number of items in tests and the test difficulties seemed to affect group invariance more than sample size; and (g) when the linking tests are different in difficulty, the conversion of scores will be more group dependent than the linking of tests with similar difficulty.

**Linking of different educational assessments.** Many of the studies illustrated in the previous section are based on simulations. In order for researchers to better establish the relationships between two different assessments, it is sometimes necessary to use real life data. A few studies have been done in the United States as standardized tests are commonly used within the country. For example, the relationships and concordance between the Scholastic Assessment Test (SAT) and the American College Testing (ACT) were examined by Dorans (1999) and Pommerich et al. (2004). These assessments are used for the purpose of college admissions and they measure the same subjects of Reading, Mathematics, and English language or writing. ACT has an additional test subject of Science. In his study with a single group design where the students took both tests, Dorans (1999) determined the exchangeability, concordance, and prediction between the two assessments by subject. Results have shown that, depending on the subject and their relationships, different inferencing should be used. For example, ACT Reading is best predicted by SAT I Verbal, ACT Math and SAT I Math scores have a concordance

relationship, and all ACT Math test editions built to the same specifications are equated in trying to establish exchangeability across all editions of ACT. Pommerich et al. (2004) further expanded the research and walked through the procedures of establishing concordance between ACT Composite and SAT I V+M using equipercentile methods of pre-smoothing, post-smoothing of three degrees (.10, .25, and .50) and unsmooth. And prediction was also explored as an alternative when equipercentile results are inappropriate.

It is also important to examine group invariance when working with real data to ensure applicability of concordance results. In one study, Yin, Brennan, and Kolen (2004) examined the group invariance when concordance relationships were established for males and females in the Mathematics and Science tests of ACT and the Iowa Tests of Educational Development (ITED) in a single group design – the same group of students took both tests. Linear, parallel-linear, and equipercentile methods were compared. According to Yin et al., (2004), the ITED is used for students in grade 9 through 12 and consisted of seven test of different subjects: Vocabulary (V), Ability to Interpret Literacy Materials (L), Correctness and Appropriateness of Expression (EX), Ability to Do Quantitative Thinking (QT), Analysis of Social Studies (SS), Analysis of Science Materials, and Use of Sources of Information (SI). The developmental standard score (DSS) of the ITED was used in the study. Results on group invariance demonstrated that for Mathematics assessments, group invariances were satisfied when the linear or the parallel-linear methods were used. For the Science assessments, group invariance was produced by the equipercentile method. This study suggested that when content specifications of tests are similar (in the case of Math), the assumptions for the linear and parallel-linear methods seemed to hold and group invariances are produced. Such assumptions cannot be hold when test specifications are different, and therefore equipercentile methods worked better (Yin et al., 2004). This study demonstrated how

the performance of group invariance could vary by subjects and the methods of concordance used.

In regards to international assessments, where countries from around the world participate to determine their standing compared amongst each other, Strietholt and Rosén (2016) demonstrated the linking of tests developed by the International Association for the Evaluation of Educational Achievement (IEA) to establish long-term trends from 1970 to 2016. The goal was to link older IEA Reading tests – Reading Comprehension Study (RCS) and the Reading Literacy Study (RLS), with the more recent Progress in International Reading Literacy Study (PIRLS). Data from four countries: Hungary, Italy, Sweden, and the United States were used as they have participated throughout all the years. CC was used as the method of choice to link the assessments together, placing them onto a common scale. The study was a common-item nonequivalent group design as common text passages appeared in multiple assessments but not all. The 3PL IRT model was used for multiple choice items, the 2PL IRT model was used for dichotomous constructed response items, and the GPC model was used for polytomous scored items. Different evaluation methods were used such as the use of Q3 statistics to determine model fit, and the comparisons of original scores with the new IRT scaled scores to detect performance changes due to linking. A 40-year trend was then examined by the researchers for the four countries. This study is a good demonstration of using CC in linking multi-formats tests, which are commonly found in standardized testing.

In Canada, linking studies are rarely done using standardized tests. Typically, linking studies are only performed for the purpose of providing comparisons between provincial large-scale tests with international assessments for informing provincial ministries. For example, Cartwright (2003) examined methods for application of equipercentile scale linking, for the

linking of the Reading component from the year 2000 administration of PISA, and the Reading component of the 2000 administration of the Foundation Skills Assessment (FSA) in British Columbia. In another study by Radwan and Xu (2012), the Ontario Secondary School Literacy Test (OSSLT) was linked with the Reading assessment of the 2009 administration of PISA to compare the performance of Ontario students between tests. A modified one-parameter IRT model was used with the Fixed Item Parameter (FIP) linking procedure, along with equipercentile with pre-smoothing procedure. Content alignment was compared between PISA and the OSSLT by having evaluations done by content expert, and predictability of PISA scores from OSSLT was done by using simple regression. Although the study was able to provide evidence that the provincial standard met by students are comparable to PISA standard for minimum competency in literacy, Radwan and Xu (2012) discussed that the two tests were not truly equated because group invariance was not achieved as males and females had different cut scores. Predictability of PISA level using OSSLT score was also low (45%). The researchers further explained the challenges in linking tests with different specifications.

**Current research.** Based on the literature review, the majority of the research focused on the common-item designs, in the case of vertical scaling, in which the linking tests or forms have shared a number of items, and those items are considered as the linking parameters when scales are established. In the case of concordance where two tests do not share the exact same constructs or test specifications, it is less likely to see common-item designs. Literature on concordance is mostly on tests that are measuring similar subjects and targeting the same grade levels of students. Previous research and approaches do not fit quite well into the design of this study, where the two tests measure the same subjects, do not share common items, and their test specifications are not matched perfectly – an example of concordance study, in addition, the

target populations of the two tests are two years apart at two grade levels, therefore it would be of interest to put them onto the same scale for comparability – an example of vertical scaling but without the aspect of growth because it is unsure if the population of the students cohorts are stable among the two tests. Also, the linking of major and minor domain was not discussed in any literature. This study serves to address this gap in the literature when the study design fits in between two approaches of linking, by determining which approach best suit for such design, and to determine the effects of linking a major domain from one test to a minor domain of another.

Linking international tests with national tests are commonly done in the United States but is uncommon in Canada. Although some studies were conducted using Canadian data, linking relationships were only examined between provincial tests and international tests. Any linking relationship between a Canada-wide national test and international test was never examined, and recently there is an increasing interest on using multiple tests for educators and policy makers in making decisions such as student placements (Chu & Fung, 2017; Ngo & Kwon, 2014; Shepard, 2000). This study serves to fill in the gap, by examining linking, and concordance relationships between a Canadian national test and an international test.

This study also provides additional context with the educational system in Canada, by comparing how students representing Canada performed across the two tests, especially when educational systems are governed at the provincial/territorial levels. This study will utilize some common methods discussed in the literature review, and compare them to find the best match of the current linking situation for two large-scale tests.

## Chapter 3

### Methodology

In this chapter, I will first describe the background of the two assessments that are the focus of this research, their purposes, frameworks, and their administrations in Canada. Science and Mathematics are chosen as the domains of interest of this research as they were the major domains in the two recent administrations with publically available datasets. Next, the research design, the linking procedures, and methodology that will be used are presented for comparability of scores.

#### Background of Assessments

**Programme for International Student Assessment (PISA).** The Programme for International Student Assessment (PISA) is an international assessment developed by the Organisation for Economic Co-operation and Development (OECD) for evaluating 15-year-old students in participating countries. PISA was developed in an attempt to answer the question “What is important for citizens to know and be able to do?” and to be able to compare students at the international level (OECD, 2016). The OECD (2016) explained that PISA determines whether students have the key knowledge and skills deem useful to participate in a modern society. Its focus is not only on the testing of knowledge, but also students’ ability to apply the knowledge in contexts within and outside of schools.

Three subjects – Science, Mathematics, and Reading rotate in each cycle as the major domain, while the other two subjects as the minor domains. Each subject (i.e., Science, Mathematics, and Reading) becomes a major domain for a particular PISA administration. When a subject is a major domain, approximately half of the two-hour PISA assessment will be related to that subject. A country may also opt for an additional one-hour domain – financial literacy for

their students. Canada was one of the countries that have written the financial literacy option of PISA. PISA runs on a three-year cycle, with the most recent administration in 2015, the main subject domain was Science, and Mathematics, and Reading as the minor domains. Subscales are only reported on the major domain for each administration and overall performance without subscales are reported for the minor domains. PISA reports on a score with a mean of 500 and a standard deviation of 100 for each domain. Prior to 2015, five plausible values per domains and subdomains were created for each student. In 2015, ten plausible values were created for each student instead of five. Also, before 2015, PISA was delivered as a paper-based test to students in participating countries. After 2015, PISA was delivered to most students as a computer-based test. Efforts were made to ensure the comparability between the online and the paper deliveries between 2012 and 2015, which include the use of anchor items that displayed insignificant differences in scores between the two modes of deliveries.

To obtain background and contextual information of students and the schools, students were asked to complete a 35-minute student questionnaire, and school principals were asked to complete a 45-min school questionnaire. According to the OECD (2016), the questionnaires obtained information on: (a) students and family background, (b) aspects of students' lives including their attitudes and habits, (c) aspects of schools, (d) context of instruction, and (d) aspects of learning. This information allows bigger pictures to be drawn in relating the contextual information with students' performance. Other additional questionnaire may also be administered as an option by the countries. These optional questionnaires include a computer familiarity questionnaire, an educational career questionnaire, a parent questionnaire, and a teacher questionnaire.

***Purposes of assessment.*** PISA is not only about ranking of countries, but also to demonstrate whether school systems are effective in preparing students for higher education and workplaces, so countries can learn from one another by creating more fair and inclusive systems (OECD, 2016). Aside from the reasons for the development of PISA, the OECD (2016) claims a few uniqueness of the assessment in comparison with other international assessments:

- (a) *Policy orientation* – linking data on student learning outcomes with data on students’ backgrounds and attitudes towards learning, and on key factors that shape their learning, in and outside of school, in order to highlight differences in performance and identify the characteristics of students, schools and education systems that perform well;
- (b) *Innovative concept of “literacy”* – referring to students’ capacity to apply knowledge and skills in key subjects, and to analyze reason and communicate effectively as they identify, interpret and solve problems in a variety of situations;
- (c) *Relevance to lifelong learning* – PISA asks students to report on their motivation to learn, their beliefs about themselves, and their learning strategies;
- (d) *Regularity* – enables countries to monitor their progress in meeting key learning objectives; and,
- (e) *Breadth of coverage* – in PISA 2015, encompasses the 35 OECD countries and 37 partner countries and economies (p.25).

***Science as a domain.*** Science was the major domain in the 2015 administration of PISA, and a minor domain in the 2012 administration of PISA. Science Literacy, as defined by the OECD (2016), is:



the ability to engage with science-related issues, and with the ideas of science, as a reflective citizen. A scientifically literate person is willing to engage in reasoned discourse about science and technology, which requires the competencies to explain phenomena scientifically, evaluate and design scientific enquiry, and interpret data and evidence scientifically. (p. 28).

For the purpose of this research, *Science* will be used interchangeably with *Science Literacy* in reference to the subject domain in PISA.

***Science framework.*** When a particular subject area is the major domain of PISA, more items within the assessments and within the questionnaires from that subject are will be included in comparison to other minor domains. When Science is a major domain, items related to four aspects – contexts, knowledge, competencies, and attitudes in Science will be used to determine students’ performance and attitudes (OECD, 2016a). As minor domain, items related to knowledge or concepts, processes, and contexts will be used (OECD, 2013). Figure 4 explains the inter-relations between these four aspects. The 2015 definition of Scientific Literacy and the definitions of the four aspects can be found in Table A.1 in Appendix A.

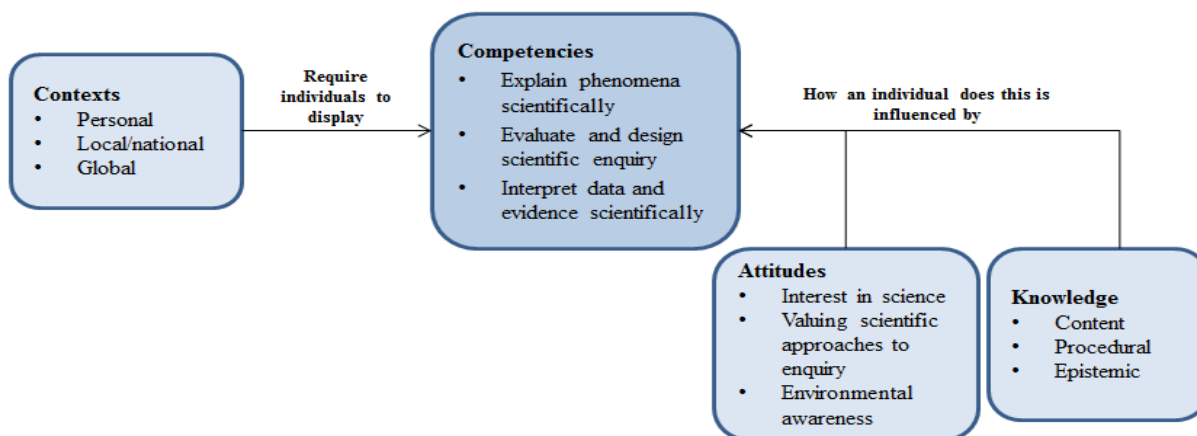


Figure 3.1. Inter-relationships between the four aspects of science literacy. Adapted from *PISA 2015 Assessment and Analytical Framework: Science, Reading, Mathematics, and Financial Literacy*, by OECD, p.23.

In the 2015 PISA, there were three subscales for Science: scientific competencies, scientific knowledge, and systems (or content knowledge). Three skills were evaluated within the scientific competencies (explain phenomena scientifically, evaluate and design scientific enquiry, interpret data and evidence scientifically) and within the scientific knowledge (content, procedural, epistemic). Three content areas were measured within the systems subscale (physical, living, earth and space), and the three types of knowledge (content, procedural, epistemic) were embedded within each of the three contents (OECD, 2016a).

Three item formats were used for evaluating competency in Science – simple multiple choice with four options, complex multiple choice such as selecting a few responses from a list, and constructed responses requiring written or drawn responses. Science items were organized into 30-minute clusters, with each student were expected to write one-hour of Science items, with the rest including clusters of Mathematics and Reading items. In total, six clusters of Science trend units, and six clusters of new item units were used in the 2015 PISA, rotated within different test forms (OECD, 2016a). The distributions in percentage of total items for each

of the subscale can be found in Tables A.2 and A.3 in Appendix A. Example Science items for PISA 2015 found in Figures A.1 and A.2. For more example items, please refer to the framework document of PISA 2015 (OECD, 2016a). There are seven proficiency levels for Science in 2015, with 1b being the lowest level, and 6 as the highest level of achievement. The description for each level of Science proficiency can be found in Appendix Table A.4.

***Mathematics as a domain.*** The most recent time Mathematics became a major domain was the 2012 administration of PISA, and it was a minor domain in 2015. Mathematics Literacy, as described by the OECD (2014) involves

an individual's capacity to formulate, employ and interpret Mathematics in a variety of contexts. It includes reasoning mathematically and using mathematical concepts, procedures, facts, and tools to describe, explain and predict phenomena. It assists individuals in recognizing the role that Mathematics plays in the world and to make the well-founded judgements and decisions needed by constructive, engaged and reflective citizens. (p.2)

The tools mentioned in the previous quote includes the physical and digital equipment, software, and calculation devices that are often used in the 21<sup>st</sup> century workplaces, such as calculators, rulers, and spreadsheet (OECD, 2014).

***Mathematics framework.*** When Mathematics was the major domain in 2012, the framework was adapted based on the 2003 Mathematics framework when it was last a major domain to maintain the reporting of trends. Two major subscales were used as the reporting subscales of Mathematics in 2012 – Process and Content. Three process categories were evaluated with PISA items: (a) Formulating situations mathematically; (b) employing mathematical concepts, facts, procedures, and reasoning; and (c) interpreting, applying and

evaluating mathematical outcomes. In addition, in terms of the content knowledge, the items evolve around four content areas: (a) quantity; (b) uncertainty and data; (c) change and relationships; and (d) space and shape. These categories of process and content were divided in their modes (i.e., computer-based and paper-based) of administration. The capability to solve a Math problem involves more than just a single ability, and therefore seven fundamental mathematical capabilities were embedded within the content categories, and were applied into the process categories. These seven fundamental mathematical capabilities include communication; representation; devising strategies; mathematization; reasoning and argument; using symbolic, formal and technical language and operations; and using mathematical tools. To ensure the definition of Mathematics Literacy is met, four context categories (i.e., personal, societal, occupational, and scientific) were employed by the items to further extend the testing of mathematical applications by students outside of classrooms. The following figure illustrates the main features of PISA 2012 Mathematics framework.

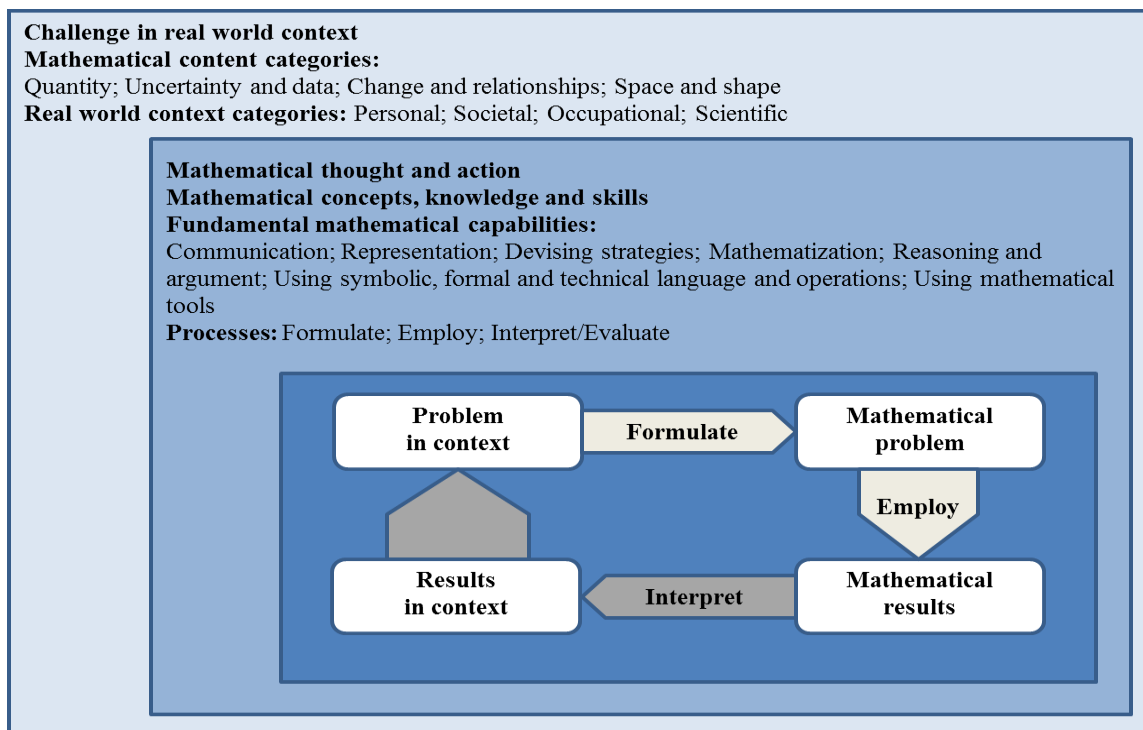


Figure 3.2. Main features of PISA 2012 mathematics framework. Adapted from *PISA 2012 Results: What Students Knows and Can Do: Students Performance in Mathematics, Reading, and Science (Volume 1, Revised edition)*, by OECD, p.37.

The following figure describes PISA 2012 Mathematics items based on the subscales and their categories. The distribution of PISA 2012 Mathematics score points by each mathematical category can be found in Tables B.1 in Appendix B. Example items of Mathematics from PISA 2012 can be found in Figure B.1. There were six Mathematics proficiency levels for PISA 2012, which they were adapted from the 2003-2009 framework, descriptions of these proficiency levels can be found in Table B.2.

Reporting categories			Further categories to ensure balanced assessment		
Process categories	Content categories	Medium categories	Context categories	Response types	Cognitive demand
Formulating situations mathematically	Quantity	Paper-based	Personal	Multiple choice	Empirical difficulty (continuum)
Employing mathematical concepts, facts, procedures, and reasoning	Uncertainty and data		Societal		
	Interpreting, applying and evaluating mathematical outcomes	Change and relationships	Computer-based	Occupational	Complex multiple choice
Space and shape		Scientific		Constructed response (simple, elaborated)	

Figure 3.3. Categories describing PISA 2012 mathematics items. Adapted from *PISA 2012 Results: What Students Knows and Can Do: Students Performance in Mathematics, Reading, and Science (Volume 1, Revised edition)*, by OECD, p.40.

**PISA in Canada.** The ten provinces in Canada have been continuous participants in PISA. Two official languages versions (i.e., English and French) are being administered across Canada, depending on the language of the school systems. The sampling procedures of PISA in Canada are two staged, with the use of probability to size sampling to draw a list of schools in the first stage (OECD, 2013), where stratifications are made by province, language, and school sizes within the sampling frame. In the second step, students were randomly drawn within each selected school. The 2012 administration of PISA was mainly paper-and-pencil format. Canada was also one of the participating countries that included a component of the assessment delivered in computer format. This component included assessments on Problem Solving, Reading, and

Mathematics related to the 2009 Reading framework and the 2012 Mathematics framework (Brochu, Deussing, Houme, & Chuy, 2013). In 2015, PISA was administered mainly online using computers.

PISA is one of the major assessments that provinces uses to compare their students' achievement with other provinces and the other participating countries. Its results allow education policy makers to make decisions on how to improve their education systems for students in their provinces.

**Data source and samples.** Both the 2012 and the 2015 Canadian datasets of PISA will be used for this research. These data can be obtained from the OECD website. In the Canadian sample of 2012, 20,994 students participated and 19,604 students participated in the 2015 assessment. Table 3.1 below shows the breakdown of unweighted participated students by province in 2012 and 2015.

Table 3.1.

*Participated Students in 2012 and 2015 across Canada (Unweighted)*

<u>Canada and Provinces</u>	<u>2012</u>	<u>2015</u>
Newfoundland and Labrador	1,313	1,197
Prince Edward Island	1,288	392
Nova Scotia	1,365	1,414
New Brunswick	1,775	1,544
Quebec	3,850	2,885
Ontario	3,652	4,123
Manitoba	2,060	2,285
Saskatchewan	1,933	1,894
Alberta	2,017	1,973
British Columbia	1,741	1,897
<b>Canada</b>	<b>20,994</b>	<b>19,604</b>

Note. Data from (a) *Measuring up: Canadian Results of the OECD PISA Study: The Performance of Canada's Youth in Science, Reading and Mathematics – 2015 First Results for Canadian Aged 15*, by O'Grady, Deussing, Scerbina, Fung, & Muhe (2016), p.51. (b) *Measuring up: Canadian Results of the OECD PISA Study: The*

*Performance of Canada's Youth in Mathematics, Reading and Science – 2012 First Results for Canadian Aged 15*, by Brochu et al. (2013), p.52.

**Pan-Canadian Assessment Program (PCAP).** Developed by the Council of Ministers of Education, Canada (CMEC), the Pan-Canadian Assessment Program (PCAP) is a national assessment for Grade 8/Secondary II (in Quebec) students in Canada. Similar to PISA, not all students within the country writes the PCAP and students are selected based on sampling. As the educational systems and policies across Canada vary based on jurisdictions, according to O'Grady and Houme (2014), PCAP is committed to inform Canadians on how well the education systems are meeting the needs of students and the society. It is expected that, although educational curricula and systems are different, there are similar Science, Reading, and Mathematics skills shared among students across Canada (O'Grady & Houme, 2014). The first administration of PCAP was 2007, when it replaced the Student Achievement Indicators Program (SAIP) due to changes in curricula and the need to reflect students' learning.

Similar to PISA, three subjects (Science, Reading, and Mathematics) rotate as the major domain in each cycle, while the other two become minor domains. PCAP runs on a three-year administration cycle, with its recent administration in 2019 that focused on Mathematics as major domain, and a completed 2016 cycle that focused on Reading as the major domain. Its earlier cycle in 2013 featured Science as the major domain. Each subject will become a major domain every nine years. An assessment cycle is considered completed when the assessment reports are published. Subscales are only reported on the major domain for each administration and overall performance without subscales are reported for the minor domains. PCAP also reports on a scale with a mean of 500 and a standard deviation of 100 for each subject domain.

Administrations of PCAP were in paper format, and transition has taken underway to place PCAP online as a computer-based assessment in 2019. Booklets were designed to be



completed within 90 minutes and subject items formed units based on the contents. Each unit begins with a scenario followed by one to six items. When a subject is a major domain, take Science as an example in the 2013 PCAP, 10 units of items were allocated in each booklet, and each of the minor domains have three units of items. The number of units of items ranges from eight to ten units per booklet. The PCAP assessment has approximately 75% selected-response items and 25% constructed-response items. There were 5% attitude questions that are embedded within units. At the end of the assessments, students are asked to complete the student questionnaire to obtain their background information and attitudes towards the major domain subject. Teachers and school principals are also asked to complete the teacher and school questionnaires. Example items for each of the questionnaire can be found in Tables C.1 to C.3 in Appendix C.

***Purposes of assessment.*** PCAP is not tied to any of the provincial or territorial curricula, but is adapted based on mutually agreed level of knowledge and skills between provinces and territories. Hence, it is meant to be a fair measure of students' abilities to apply their learned skills outside of schools (CMEC, n.d.). The main purpose of PCAP is to provide participating provinces and territories with the data they need to make decisions on educational policy, it is not to be used for the purpose of identifying individual students, schools, districts, or regions on their strengths and weaknesses (O'Grady & Houme, 2014). According to O'Grady et al. (2018), the PCAP was designed to:

- (a) inform educational policies that seek to improve approaches to learning;
- (b) focus on reading, mathematics, and science, with the possibility of including other domains as the need arises;

- (c) reduce the testing burden on schools through a more streamlined administrative process;
  - (d) provide useful background information through the use of complementary context questionnaires for students, teachers, and school administrators; and,
  - (e) enable provinces and territories to use both national and international results to validate the results of their own assessment programs and to improve these programs.
- (p. 1).

This research aligns with © above and in order for jurisdictions to use both national and international assessments results for improving their education systems, comparable scores are necessary.

***Science as a domain.*** As discussed above, when a subject is a major domain, more units of items will be used in assessing the students' skills. Science as the subject of interest of this research will be discussed for PCAP. Science (i.e., Science Literacy) was a major domain in 2013 and a minor domain in the 2016 administration. Science Literacy, as defined by O'Grady and Houme (2014), as "students' evolving competencies in understanding the nature of Science using Science-related attitudes, skills, and knowledge to conduct inquiries, to solve problems, and to reason scientifically in order to understand and make evidence-based decision about Science-related issues." (p. 7).

***Science framework.*** The Science domain has three competencies, four subdomains, and attitudes towards Science. The following figure demonstrates the Science framework in PCAP. It explains the relationship between the subdomains and the underlying three competencies that can be evaluated from these subdomains.

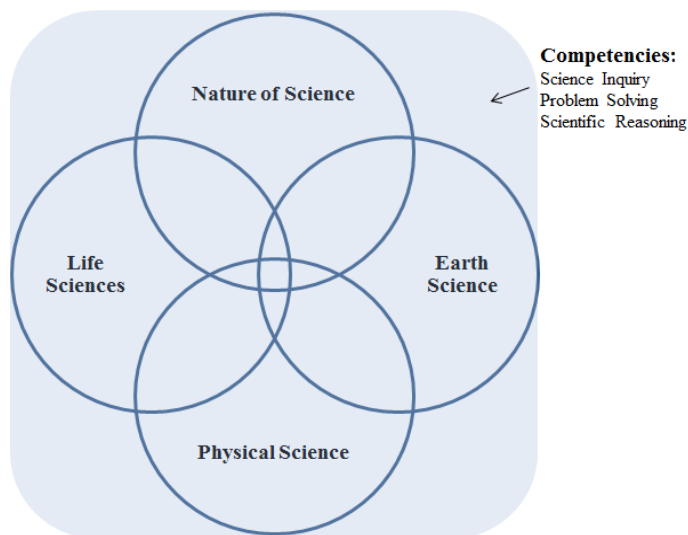


Figure 3.4. PCAP science framework. Adapted from *Pan-Canadian Assessment Program (PCAP): Science Assessment Framework*, by CMEC, p.11.

In regards to attitudes towards Science, PCAP assesses students: (a) interest in and awareness of Science-related issues, (b) respect and support for evidence-based knowledge, and (c) awareness of sustainable development (CMEC, 2013). Context of the items are chosen based on what would deem interesting and relevant to Grade 8 students in Canada. These include topic in Science, Technology, Society, and Environment. There are eight clusters of units of Science items and they are allocated within four booklets with each booklet containing two clusters. Table 3.2 below shows the percentages of item allocations for each competency and sub-domain.

Table 3.2.

*Percentages of Items Allocations by Competencies and Sub-domains*

<u>Competencies</u>	<u>%</u>	<u>Sub-domains</u>	<u>%</u>
Science inquiry	34	Nature of science	34
Problem solving	12	Life science	25
Scientific reasoning	54	Physical science	25
		Earth science	16

Note. Adapted from *PCAP 2013: Report on the Pan-Canadian Assessment of Science, Reading, and Mathematics*, by O'Grady and Houme (2014), p.14.

There are four Science performance levels in PCAP. A description of each level can be found in Table C.4. These performance levels are only reported when it is a major domain in PCAP.

**Mathematics as a domain.** 2010 was the most recent administration of PCAP where Mathematics was a major domain and will be a major domain again in 2019. Mathematics is defined as “a conceptual tool that students can use to increase their capacity to calculate, describe, and solve problems” (CMEC, 2011). Because PCAP is the national assessment of Canada, the assessment was built based on a common curriculum across Canada, Mathematics framework of PCAP was developed based on the National Council of Teachers of Mathematics (NCTM) Principles and Standards for School Mathematics in defining the Mathematics curricula “to enable students to use Mathematics in his or her personal life, in the workplace, and in further study. All students deserve an opportunity to understand the power and beauty of Mathematics. Students need to learn a new set of Mathematics basics that enable them to compute fluently and to solve problems creatively and resourcefully.” (NCTM, 2010).

**Mathematics framework.** There are four Mathematics subdomain in PCAP 2010: (a) numbers and operations, (b) geometry and measurement, (c) patterns and relationships, and (d) data management and probability. Five processes were involved in these subdomains: problem solving, communication, representation, reasoning and proof, and connections as these skills are required to solve a mathematical problem. The following figure illustrates the relationships between the processes and the Mathematics subdomains.

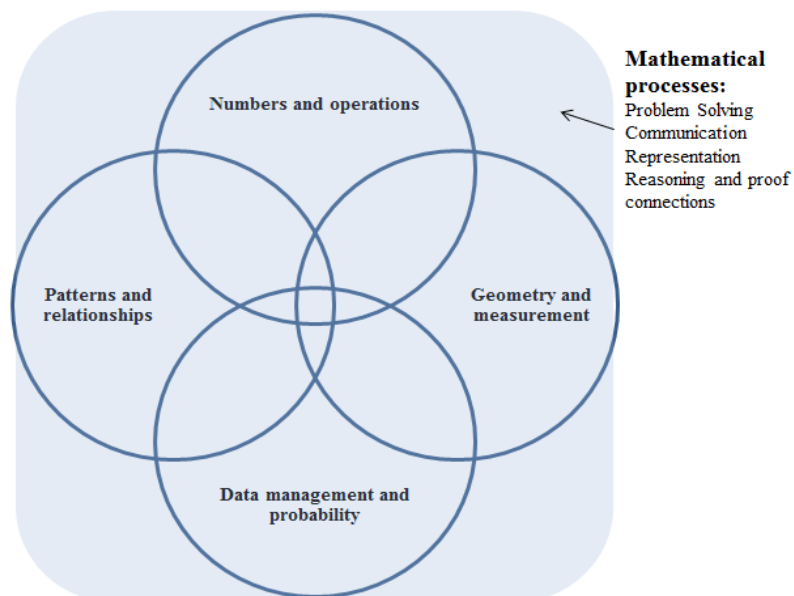


Figure 3.5. Relationships between mathematical processes and the subdomains. Adapted from *Pan-Canadian Assessment Program (PCAP 2010): Report on the Pan-Canadian Assessment of Mathematics, Science, and Reading*, by CMEC, p.8.

The percentage distribution of items by the Mathematics subdomain are described in the following table:

Table 3.3.

*Distribution of PCAP Mathematics Subdomains*

<u>Subdomain</u>	<u>% Distribution</u>
Numbers and operations	36
Geometry and measurement	28
Patterns and relationships	13
Data management and probability	23

Note. Adapted from *Pan-Canadian Assessment Program (PCAP 2010): Report on the Pan-Canadian Assessment of Mathematics, Science, and Reading*, by CMEC, p.17.

There are four performance levels (Levels 1 to 4) for Mathematics and these levels are reported only when it is a major domain. The description of each performance level can be found in Appendix Table C.5.

***PCAP in Canada.*** Similar to PISA, the same Canadian provinces continuously participate in PCAP. Both official languages versions (English and French) are administered across Canada depending on the language of the participating school systems. Sampling of students is done in a two-step process. In the first step, systematic sampling is used to draw from a list of schools, sorted based on the number of grade 8 students in schools. In the second stage, upon receiving the class lists of the schools from the provinces, a class within the each chosen school will be randomly selected to write the PCAP. Census of schools could also be taken for certain target groups and students will be selected from these schools, there are also possibilities of census of students in grade 8/secondary II (CMEC, 2015).

***Data source and sample.*** The 2010 and 2013 PCAP datasets were obtained from the CMEC as science and mathematics were the focus of this research. In the 2010 administration of PCAP, approximately 32,379 students participated across Canada, and in the 2013 administration of PCAP, approximately 32,604 students. Note that in 2010, Yukon also participated in the PCAP but discontinued beginning 2013. Table 3.4 and Table 3.5 below illustrate the number of students participated in the 2010, and the 2013 PCAP by province and by language, respectively.

Table 3.4.

*Number of Participated Students in PCAP 2010 by Province and Language*

<u>Canada and Provinces</u>	<u>English</u>	<u>French</u>	
Yukon	305	0	
Newfoundland and Labrador	1,861	0	
Prince Edward Island	484	0	
Nova Scotia	295	484	
New Brunswick	1,611	1053	
Quebec	1,703	3,534	
Ontario	3,374	2,509	
Manitoba	2,788	322	
Saskatchewan	2,838	80	
Alberta	3,183	332	
British Columbia	3,328	231	
<b>Canada</b>	<b>21,770</b>	<b>8,545</b>	<b>32,379</b>

*Note.* Data from *PCAP 2013: Report on the Pan-Canadian Assessment of Science, Reading, and Mathematics*, by O'Grady & Houme (2014), p.197.

Table 3.5.

*Number of Participated Students in PCAP 2013 by Province and Language*

<u>Canada and Provinces</u>	<u>English</u>	<u>French</u>	
Newfoundland and Labrador	1,641	7	
Prince Edward Island	704	39	
Nova Scotia	2,402	314	
New Brunswick	1,768	999	
Quebec	1,750	3,681	
Ontario	3,208	2,180	
Manitoba	3,542	367	
Saskatchewan	3,333	97	
Alberta	2,720	342	
British Columbia	3,322	188	
<b>Canada</b>	<b>24,390</b>	<b>8,214</b>	<b>32,604</b>

*Note.* Data from *PCAP 2013: Report on the Pan-Canadian Assessment of Science, Reading, and Mathematics*, by O'Grady & Houme (2014), p.197.

## Methodology

**Relationship between PISA and PCAP.** In Canada, due to the administration cycles for PISA and PCAP, students who write the PCAP in grade 8 belong to the same cohort of students who are writing PISA two years later. To align with the goals in providing useful assessment results for Canadian provinces to make decisions in their education policies and systems, establishing a relationship between PISA and PCAP and to create comparable scores between the two is an important step forward. This alignment will lead to a better understanding of students' learning in Canada. In addition, due to the rotation of subjects as major domains, each subject becomes a major domain every nine years. Therefore, it is worth examining into the possibility of linking the two assessments when a subject is a major domain in one assessment and a minor domain in another, so a closer trend of student performance can be analysed. Datasets including both English and French versions of the tests will be used to determine if the results vary by language. Language of the test (i.e., English and French) will be used as the language variable.

Referring back to the research questions:

1. Can a scaling and/or linking relationship be established between PISA and PCAP? How comparable are the scores between the two tests?
2. When comparing different scaling and linking methods, which approach works best and under which conditions?
3. Are there any differences in scaling and linking results by content areas and language group?

To answer research question one, two separate analyses will be conducted. First, the relationships and linking of PISA 2012 and PCAP 2013 will be examined for science and mathematics. Second, relationships and linking of PISA 2015 and PCAP 2013 will be examined



for science and the relationship and linking between PISA 2012 and PCAP 2010 for mathematics. The following diagram illustrates the research design.

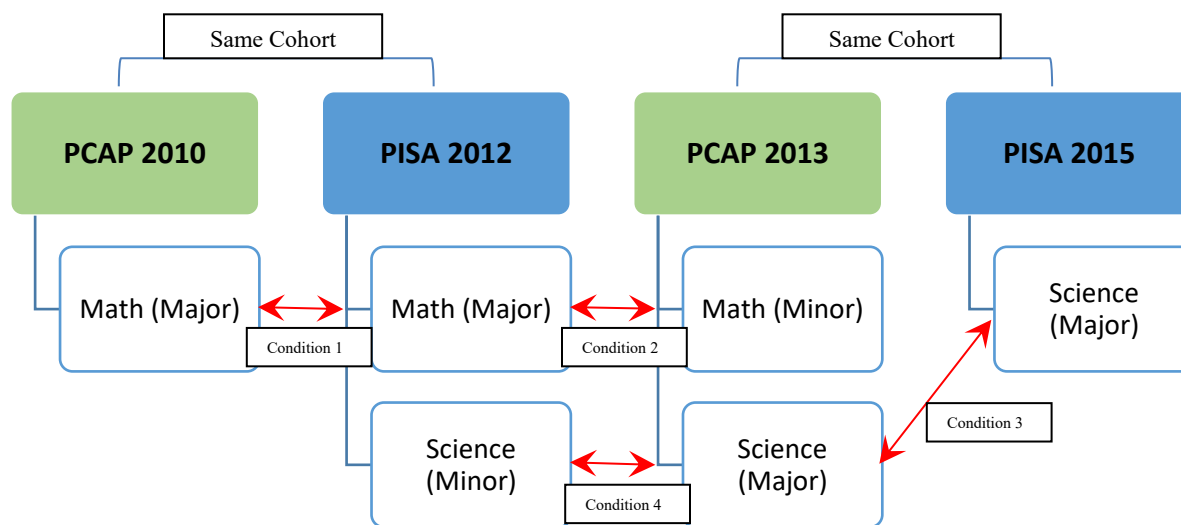


Figure 3.6. Research design.

The evaluations for each linking method correspond to research questions two and three, will be further discussed in later sections.

**Comparing PISA and PCAP.** In order to establish meaningful relationships between PISA and the PCAP, comparisons in regards to their degree of similarity should be made for both assessments prior to linking (Striethold & Rosén, 2016). The four criteria proposed by Kolen and Brennan (2004) will be used to evaluate the similarities between PISA and PCAP: inferences, populations, constructs, and measurement characteristics or conditions (Striethold & Rosén, 2016). Similar to the strategy used by Striethold and Rosén (2016), questions generated based on these four criteria will be answered by describing both tests accordingly:

1. To what extent are the assessments used to draw similar inferences?
2. Are the assessments designed for the same population?
3. How similar are the test conditions?

4. To what extent do the tests assess a similar construct?

***Correlations and convergent validity.*** As a preliminary understanding of the relationship between PISA and PCAP, their Science frameworks and test specifications were first compared between the two administrations of PISA and PCAP 2013. Correlations between the two Science assessments as major domains (PCAP 2013 vs PISA 2015) and correlations of their subdomains were performed. In regards to the relationship among the major and the minor of Science domains, correlations on PISA 2012 and PCAP 2013 for Science were performed. For Mathematics, the framework and test specifications were compared between two administrations of PCAP and PISA 2012. Correlations between the tests as major domains, along with their subdomains (PCAP 2010 vs PISA 2012), and correlations of the two tests among a major and a minor domain (PISA 2012 vs PCAP 2013) were performed. Convergent validity of PCAP with PISA Science and Mathematics will then be determined by examining these correlations of the two tests overall and at the level between similar subdomains of the two tests when the subjects are major domains. According to Cohen (1988), the Pearson product-moment correlation coefficients were classified into levels: absolute value of 0.1 is small; absolute value of 0.3 is medium; and absolute value of 0.5 is large.

***Linking types and conditions.*** Two types of linking were tested in this research. As Pommerich et al. (2004) suggested, multiple types of linking might be required based on the intended use of test results. First, *vertical scaling* was used due to the differences in grade levels for PISA and PCAP so that links between the two are established and comparisons can be made between the grade levels. IRT linking approach of concurrent calibrations will first be used to determine its performance for this research design. For dichotomously scored items, the 2PL IRT model will be used, and for items with polytomous scores, the generalized partial credit model

(GPCM) will be used in CC, as these are the models employed in the equating of PCAP. CC treats all items in both PCAP and PISA as one test and put them on the same scale. Each subject will be calibrated separately. Parameters obtained from the calibrations will be used for scoring. EAP will be used as the scoring method, then put the scores into the same scale. Scoring will first be done for PISA and PCAP sample combined as a total test, by subject. CC will then be conducted using data separated by language, followed by the scoring of the language groups to allow comparisons of results by language and the results in the total group.

Second, by creating corresponding (or concordance) scores between PISA and PCAP, concordance can be used when the assessments are built based on different test specifications, yet measuring similar constructs, and are used for the purposes (Dorans, 2008; Pommerich et al., 2004). Equipercentile method as a common concordance procedure will be used. Post-smoothing based on cubic splines will also be applied with different degrees to determine if differences can be found between unsmoothed and smoothed results, and whether smoothing is required for the sample size. Smoothing strategies suggested by Kolen and Brennan (2004) will be used in steps: Step 1 – fit the score distributions (not applicable as it applies to pre-smoothing only); Step 2 – construct the raw-to-raw equivalents; Step 3 – construct the raw-to-scale score equivalents (p. 93-94). Post-smoothing was chosen as research have found that pre-smoothing and post-smoothing methods both can improve the estimation of equipercentile linking (Hanson, Zeng, & Colton, 1991; Zeng, 1995). Post-smoothing is the application of smoothing after the equipercentile function is obtained and no statistical test is required. In addition, for the purpose of this study, post-smoothing is sufficient to answer the questions on whether smoothing is required for the equipercentile method and if so at what degree.

Bootstrapping will be used to estimate the standard errors as an evaluation of the concordance. The bootstrapping method to use in estimating standard error, with the help of a computer, is to randomly sample  $n$  times, with replacement each time a new sample is drawn, until enough replicates are made to make representative inferences from the data (Efron & Tibshirani, 1994).

With the use of the linking approaches above, four conditions were experimented for the linking of PISA and PCAP, as illustrated in Figure 9:

- (1) Linking of major domains in mathematics – PCAP 2010 and PISA 2012 where mathematics is major domain in both. This linking allows for understating the relationship between scores when student samples were drawn from the same cohort of students two years apart. Subscale comparisons can also be made under this condition.
- (2) Linking of a major domain and a minor domain in mathematics – PISA 2012 where mathematics was a major domain and PCAP 2013 where mathematics was a minor domain.
- (3) Linking of major domains in science – PCAP 2013 and PISA 2015: Science was the major domains for both assessments. Similar to the linking of major domains in mathematics, this link allows for understating the linking relationship between scores when student samples were drawn from the same cohort of students two years apart. Subscale comparisons can also be made under this condition.
- (4) Linking of a major domain and a minor domain in science – PISA 2012 and PCAP 2013: Science was a minor domain and therefore lesser items in science in PISA 2012 and a

major domain for PCAP 2013. In this condition, subscales cannot be compared due to the lesser number of items in the minor domain.

**Evaluation of linking methods.** To evaluate the linking relationships under each of the four conditions, the following approaches are proposed:

**Evaluating concordance.** As discussed in Chapter 2 on concordance, it is important to examine group invariance to ensure applicability of concordance results. Dorans (2004) discussed the population invariance property, which distinguish whether a linking relationship is concordance or equating – concordance is absence of invariance, where equating is the presence of invariance. Group invariance for the four linking conditions were examined by comparing results between the students who wrote the English test version and students wrote the tests in French to determine if the concordance approach is appropriate for both language groups. To determine if the concordance results are group dependent by language, the means and standard deviations for each of the language groups were examined as a first step, followed by computing the Root Expected Mean Square Difference (REMSD) developed by Dorans and Holland (2000) to determine invariance of the linking functions. The REMSD produce an overall differences obtained between the transformation functions from the subgroups and the entire population (Dorans, Holland, Thayer, & Tateneni, 2003; Dorans & Holland, 2000; Yin et al., 2004). It summarizes the values of the Root Mean Square Difference (RMSD) obtained from each score point. The formula for RMSD is as follow:

$$RMSD(y) = \frac{\sqrt{\sum_j w_j [e_{P_j}(y) - e_P(y)]^2}}{\sigma_{XP}},$$

where  $e_P(y)$  represents the transformed scores on Test Y to Test X;  $e_{P_j}(y)$  represents transformed scores on Test Y to Test X for subgroup  $j$ ;  $w_j$  is the weight for subgroup  $k$  and  $w_j =$

$N_j/N$ , where  $N_j$  is the sample size for subgroup  $k$  and  $N$  is the total number of students.  $\sigma_{XP}$  is the standard deviation of the total group (Dorans & Holland, 2000; Huh & Lee, 2009). The formula for REMSD is as follow:

$$REMSD = \frac{\sqrt{\sum_j w_j E_p \{ [e_{P_j}(y) - e_P(y)]^2 \}}}{\sigma_{XP}},$$

Where  $E_p$  denotes averaging over the distribution of the population. Further,  $E_p$  was suggested to be calculated using the relative frequency of each score point (Dorans et al., 2003; Yin et al., 2004). The REMSD formula derived as follows:

$$REMSD = \frac{\sqrt{\sum_j w_j \sum_{\min(y)}^{\max(y)} v_{y_k} [e_{P_j}(y) - e_P(y)]^2}}{\sigma_{XP}},$$

where  $\max(y)$ , and  $\min(y)$  are the observed maximum and minimum values of scores on test  $y$ ,  $v_{y_k}$  is the weighting factor for subgroup  $k$ , which is the number of students for subgroup  $k$  with a particular score on Test  $y$  divided by the sample size of subgroup  $k$  (Yin et al, 2004).

To further determine the differences in REMSD, the ‘‘Difference that Matters’’ (DTM; Dorans et al., 2003) were computed as an evaluation metric. The DTM is determined by using half of the unit of the composite score (for example, PCAP score scale is one unit) divide by the standard deviation of the composite score. If the RMSD is below the DTM, it indicates the subgroups are very close to the total group.

In estimating the standard error as an evaluation of the equipercentile method with and without smoothing, bootstrapping was done as discussed previously.

***Evaluating vertical scaling.*** Similar to the evaluation of concordance, population/subgroup invariance were also be examined in vertical scaling as an evaluation of the method by comparing between language groups. Mean differences of the total group between languages were first examined. Correlations of scores between language groups and the total

group were also performed. In addition, similar strategies as the Powers et al. (2012) study on evaluating population invariance for vertical scaling was adapted. TCCs and plots of TCC differences for the total group, the English group, and the French groups were examined by each test to determine if there are population invariances upon vertical scaling within the test. The RMSD for languages were also used for evaluating vertical scaling, with DTM as evaluation criteria.

**Computer programs.** SAS, SPSS, and Microsoft Excel were used for the modifications and preparing of datasets. SAS was also used for bootstrapping of standard errors. For IRT calibrations and procedures, IRTPRO by the Scientific Software International (SSI) was used. According to SSI (n.d.), unidimensional and multidimensional versions of the following response functions can be used in IRTPRO: (a) two-parameter logistic (2PL), (b) three-parameter logistic (3PL), (c) graded response, (d) generalized partial credit, and (e) nominal. In terms of equipercentile method in generating comparable scores, the GUI version of RAGE-RGEQUATE by Zeng, Kolen, Hanson, Cui, and Chien was used as it is capable of conducting linear and equipercentile with cubic spline post-smoothing and log-linear smoothing methods (Kolen & Brennan, 2014). Examples of command, input, and control files can be found in Appendix D.

## Chapter 4

### Results

In this chapter, results are presented as steps into answering the research questions on relationships between the Programme for International Student Assessment (PISA), and the Pan-Canadian Assessment Program (PCAP). There are four major sections of this chapter with associated subsections discussing the results of each research condition: Comparing PISA and PCAP; Correlations and concurrent validity; Linking – creating concordance; and Vertical scaling – concurrent calibration.

To answer the first research question, the following procedures were used to evaluate the relationships between PISA and PCAP score scales.

#### Comparing PISA and PCAP

As discussed in Chapter 3, in order for meaningful relationships to be established between PISA and PCAP, the degrees of similarities between the two tests should be examined. This study follows the Kolen and Brennan (2004, 2014) comparison approach demonstrated by Striethold and Rosén (2016). According to Kolen and Brennan (2004, 2014), to which the degrees of similarities are referred as *features* or *commonalities*, the following four *features* should be considered: *Inferences*, *Constructs*, *Populations*, and *Measurement characteristics/conditions*. These features were compared between the two tests overall and for the content areas of science and mathematics where necessary.

**Inferences: to what extent are scores for the two tests used to draw similar types of inferences?** This feature addressed the question on similarities of measurement goals and the purposes of test scores on drawing inferences, decisions, or conclusions (Kolen & Brennan, 2004, 2014; Striethold & Rosén, 2016). Both PISA and PCAP are low stakes tests, as they do not



contribute to any student academic scores in schools. Referring back to Chapter 3 on the discussion of test purposes, the following table contains a summary of the general purposes and goals of PISA and PCAP:

Table 4.1.

*Purposes and Goals of PISA and PCAP*

<u>PISA</u> <sup>a</sup>	<u>PCAP</u> <sup>b</sup>
Assesses whether students have acquired the key knowledge and skills important for participation in the modern societies.	Measures whether students have the ability to apply their learned knowledge and skills outside of schools.
Policy orientation – linking data on student learning outcomes with data on students’ backgrounds and attitudes towards learning, and on key factors that shape their learning, in and outside of school, in order to highlight differences in performance and identify the characteristics of students, schools and education systems that perform well.	Inform educational policies that seek to improve approaches to learning.
Innovative concept of “literacy” – students’ capacity to apply knowledge and skills in key subjects, and to analyze reason and communicate effectively as they identify, interpret and solve problems in a variety of situations.	Focus on reading, mathematics, and science, with the possibility of including other domains as the need arises.
Relevance to lifelong learning – asks students to report on their motivation to learn, their beliefs about themselves, and their learning strategies.	Reduce the testing burden on schools through a more streamlined administrative process.
Regularity – enables countries to monitor their progress in meeting key learning objectives.	Provide useful background information through the use of complementary context questionnaires for students, teachers, and school administrators
Breadth of coverage – for example in PISA 2015, 35 OECD countries and 37 partner countries and economies participated.	Enable provinces and territories to use both national and international results to validate the results of their own assessment program, and to improve these programs.

<sup>a</sup> From OECD (2016), *PISA 2015 Results (Volume I): Excellence and Equity in Education*, OECD Publishing, Paris. Retrieved from <http://dx.doi.org/10.1787/9789264266490-en>. p. 25.

<sup>b</sup> From O'Grady, K., Fung, K., Servage, L., & Khan, G. (2018). *PCAP 2016: Report on the Pan-Canadian Assessment of Reading, Mathematics, and Science*, Council of Ministers of Education, Canada, Toronto. Retrieved from <https://www.cmec.ca/publications/lists/publications/attachments/381/pcap-2016-public-report-en.pdf>. p. 1.

The purposes of PISA and PCAP are very similar in terms of their goals to measure beyond the knowledge of students, but also their abilities to apply their knowledge and skills outside of schools and into their everyday world. Similarly, both tests are also policy oriented as the results yield trend data to inform policies of participating countries, provinces, and territories. Their additions of questionnaire data also allow more understanding of different contextual background on influencing learning and achievements. Aside from the difference that PISA focuses on the international level, and PCAP focuses on the national/pan-Canadian level, the intentions of the two tests meant to draw similar inferences.

**Constructs: to what extent do the two tests measure the same constructs?** Although PISA and PCAP measure similar content areas – mathematics, science, and reading, how they were defined in each framework should be compared in detail. As emphasized by Kolen and Brennan (2014), the comparisons of constructs determine whether true scores between two tests can be functionally related. In order to maintain trends and to compare results across years, the frameworks of mathematics and science for both PISA and PCAP were similar between cycles. For example, in PISA 2015 when science was the major domain, its framework was refined and extended based on the previous cycles of PISA (i.e., 2006, 2009, and 2012), which drew mainly from PISA 2006 when science was last the major domain (OECD, 2017). The following tables compared the construct definitions of science and mathematics as domains and their measured components as illustrated the frameworks of the two tests when they were the major domains.

Table 4.2.

*Constructs comparisons between PISA and PCAP – Mathematic literacy / Mathematics*

PISA <sup>a</sup>	PCAP <sup>b</sup>
<b>Mathematics - definitions</b>	
<p>Mathematical literacy:</p> <ul style="list-style-type: none"> <li>• An individual's capability to formulate, employ, and interpret mathematics in a variety of contexts;</li> <li>• Includes reasoning mathematically and using mathematical concepts, procedures, facts, and tools to describe, explain and predict phenomena;</li> <li>• Assists individuals to recognize the role that mathematics plays in the world and to make the well-founded judgements and decisions needed by constructive, engaged and reflective citizens (p.1).</li> </ul>	<p>The study of patterns and relationships and as a discipline involving conceptual understanding, procedural knowledge, and processes (p.4).</p>
<b>Aspects used to access mathematics</b>	
<p>Processes Content Contexts</p>	<p>Processes Conceptual and procedural knowledge</p>
<b>Competencies/Capabilities</b>	
<p>Communication – the abilities to perceive and understand a problem; to read, decode and interpret the problem and to form a mental model; to be able to summarize and present results during the solution process; and once results were found, an individual should be able to present to others and provide explanations or justifications on the solutions.</p>	<p>Processes: Problem Solving – the abilities to solve multi-step problems presented in context that require using and making connections among mathematical concepts, procedures, and processes; to solve multi-step problems presented in context that show evidence of understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness; to explain the processes used to solve a problem and verify the reasonableness of solutions by using numbers, words, pictures/diagrams, symbols, and equations; and to apply a variety of problem-solving strategies.</p>
<p>Mathematising – transforming a problem defined in the real world to a strictly mathematical form, or interpreting /evaluating a mathematical outcome/mathematical model in relation to the original problem.</p>	<p>Reasoning and proof – the abilities to analyze a problem, make and assess conjectures, justify conclusions, and plan and construct an organized mathematical argument by applying logical (inductive, deductive)</p>

Representation – selecting, interpreting, translating between, and using a variety of representations to capture a situation, interact with a problem, or to present one’s work.

Reasoning and argument – involves logically rooted thoughts processes that explore and link problem elements so as to make inferences from them, check a justification that is given, or provide a justification of statements or solutions to problem.

Devising strategies for solving problems – involves a set of critical control processes that guide an individual to effectively recognize, formulate and solve problems.

Using symbolic, formal and technical language and operations – understanding, interpreting, manipulating, and making use of symbolic expressions within a mathematical context governed by mathematical conventions and rules.

Using mathematical tools – know about and able to use physical tools such as measuring

reasoning and mathematical knowledge; to make and test generalizations from patterns and relationships using logical reasoning; to use counter-examples to evaluate conjectures; to evaluate mathematical arguments; and to select and use appropriately various types of reasoning (algebraic, geometric, proportional, probabilistic, statistical, quantitative) to solve problems presented in context.

Communication – the abilities to communicate mathematical ideas and solutions clearly and precisely to others using appropriate every day and mathematical language, units of measurement, and a variety of representations (written, graphical, numerical, and algebraic); to formulate clear and complete arguments using a variety of representations to justify conjectures and solutions to problem situations; and to use symbolic language of mathematics correctly.

Connections – the abilities to recognize and connect mathematical concepts and procedures to context outside of mathematics; and to make connections between different representations of mathematical ideas.

Representation – the abilities to create and use a variety of representations to organize, record, and communicate mathematical ideas; to connect, compare, and translate among different mathematical representations; and to select and apply the appropriate representations to solve problems. (p.12-13).

instruments, calculators, and computer-based tools (p.30-31).

Subscales/Subdomains	
<p>Mathematical processes:</p> <ul style="list-style-type: none"> <li>• Formulating situations mathematically – ability to recognize and identify opportunities to use mathematics and then provide mathematical structure to a problem presented in some contextualized form.</li> <li>• Employing mathematical concepts, facts, procedures, and reasoning – ability to apply mathematical concepts, facts, procedures, and reasoning to solve mathematically-formulated problems to obtain mathematical conclusions.</li> <li>• Interpreting, applying and evaluating mathematical outcomes – ability to reflect upon mathematical solutions, results, or conclusions and interpret them in the context of real-life problems (p.28-29).</li> </ul> <p>Mathematical content knowledge – the understanding of mathematical content and to apply that knowledge to the solution of meaningful contextualized problems (p.31). Divided into four categories:</p> <ul style="list-style-type: none"> <li>• Change and relationships</li> <li>• Space and shape</li> <li>• Quantity</li> <li>• Uncertainty and data</li> </ul>	<p>Numbers and operations – students are able to demonstrate conceptual and procedural knowledge in: properties; equivalent representations; and magnitude).</p> <p>Geometry and measurement – students are able to demonstrate conceptual and procedural knowledge in: properties of 2-D figures and 3-D shapes; relative position; transformations; and measurement.</p> <p>Patterns and relationships – students are able to demonstrate conceptual and procedural knowledge in: patterns; algebraic equations and expressions; and linear relations.</p> <p>Data management and probability – students are able to demonstrate conceptual and procedural knowledge in: data collection and analysis; experimental and theoretical probability (p.4).</p>
Attitudes	
Students' interest in mathematics	General attitudes towards mathematics

## Willingness to engage in mathematics

<sup>a</sup> From OECD (2013), *PISA 2012 Assessment and Analytical Framework: Mathematics, Reading, Science, Problem Solving, and Financial Literacy*, OECD Publishing, Paris. Retrieved from [https://www.oecd.org/pisa/pisaproducts/PISA%202012%20framework%20e-book\\_final.pdf](https://www.oecd.org/pisa/pisaproducts/PISA%202012%20framework%20e-book_final.pdf) (p. 23-58).

<sup>b</sup> From Council of Ministers of Education, Canada. (2010). *Pan-Canadian Assessment Program (PCAP): Mathematics Assessment Framework*, CMEC, Toronto. Retrieved from <https://www.cmec.ca/docs/pcap/pcap2013/Math-Framework-April-2013-EN.pdf> (p. 1-19).

Table 4.3.

*Constructs comparisons between PISA and PCAP – Scientific literacy*

PISA <sup>a</sup>	PCAP <sup>b</sup>
<b>Scientific literacy - definitions</b>	
The ability to engage with science-related issues, and with the ideas of science, as a reflective citizen. A scientifically literate person is willing to engage in reasoned discourse about science and technology, which requires the competencies to: <ul style="list-style-type: none"> <li>• Explain phenomena scientifically</li> <li>• Evaluate and design scientific enquiry</li> <li>• Interpret data and evidence scientifically (p.22).</li> </ul>	A student's evolving competencies of understanding the nature of science using science-related attitudes, skills, and knowledge to conduct inquiries, to solve problems, and to reason scientifically in order to understand and make evidence-based decisions about science-related issues (p.8-9).
<b>Aspects used to access scientific literacy</b>	
Contexts	Contexts
Knowledge	Subdomains
Competencies	Competencies
Attitudes	Attitudes
<b>Competencies</b>	
Explain phenomena scientifically – recognize, offer and evaluate explanations for a range of natural and technological phenomena.	Science inquiry – understanding how inquiries are conducted in science to provide evidence-based explanations of natural phenomena.
Evaluate and design scientific enquiry – describe and appraise scientific investigations and propose ways of addressing questions scientifically.	Problem solving – using scientific knowledge and skills to solve [practical] problems in social and environmental contexts.
Interpret data and evidence scientifically – analyse and evaluate data, claims and arguments in a variety of representations and	Scientific reasoning – being able to reason scientifically and make connections by applying scientific knowledge and skills to make [evidence-based] decisions and address

draw appropriate scientific conclusions.  
(p.22).

issues involving science, technology, society,  
and the environment (p.11-13).

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Subscales/Subdomains

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Scientific competencies (see competencies  
section above)

Nature of science – understanding of the  
nature of scientific knowledge and processes  
that the knowledge develops. Students should  
be able to describe the scientific inquiry  
processes and solve problems using evidence-  
based decisions, to provide examples, and to  
demonstrate their understanding through  
distinguishing between processes,  
terminology, types of data, and various types  
of scientific explanations.

Scientific knowledge:

- Content: knowledge of both the natural world and technological artefacts.
- Procedural: knowledge of how such ideas are produced.
- Epistemic: understanding of the underlying rationale for these procedures and to justify their use. (p. 25).

Life sciences – students are demonstrated  
through:

- Explaining and compare processes that are responsible for the maintenance of an organism's life.
- Describing – the characteristics and needs of living things; the function and interdependence of systems related to inputs and outputs of energy, nutrients, and waste.
- Distinguishing between cells and cell components.
- Demonstrating scientific literacy with respective to life science issues.

Systems (within content knowledge):

- Physical systems (i.e., structure, properties, and chemical changes of matter; motion and forces; emergency and its transformation; interactions between energy and matter).
- Living systems (i.e., cells; concept of an organism; humans; populations; ecosystems; biosphere).
- Earth and space systems (i.e., structures, energy, and change of/in the Earth systems; Earth's history; Earth in space; history and scale of the universe). (p.28).

Physical sciences – students are demonstrated  
through:

- Describing the properties and components of matter and explain interactions between those components.
- Demonstrating scientific literacy with respective to physical science issues.

Earth sciences – students are demonstrated  
through:

- Explaining – how water is a resource for society; patterns of change and their effects on water resources on Earth.
- Demonstrating scientific literacy with respect to Earth science issues (p.13-15).

Attitudes	
Interest in science and technology	Interest in an awareness of science-related issues
Valuing scientific approaches to enquiry where appropriate	Respect and support for evidence-based knowledge
Perception and awareness of environmental issues	Awareness of sustainable development and stewardship

<sup>a</sup> From OECD (2017), *PISA 2015 Assessment and Analytical Framework: Science, Reading, Mathematic, Financial Literacy and Collaborative Problem Solving – Revised edition*, OECD Publishing, Paris. Retrieved from <http://www.oecd.org/publications/pisa-2015-assessment-and-analytical-framework-9789264281820-en.htm> (p. 19-48).

<sup>b</sup> From Council of Ministers of Education, Canada. (2013). *Pan-Canadian Assessment Program (PCAP): Science Assessment Framework*, CMEC, Toronto. Retrieved from <https://www.cmec.ca/docs/pcap/pcap2013/PCAP-2013-Science-Assessment-Framework-EN.pdf> (p. 1-50).

On measuring mathematics, there were more divisions of subdomains in PISA than PCAP, and it seemed the four subdomains of PCAP corresponded to the four categories of content knowledge in PISA. Similar to science, the description of subdomains and competencies of PCAP are more at the overall level, while the descriptions for PISA contains further breakdowns into smaller sub-categories of skills. Each of the mathematics subdomains in PCAP overlapped with both the processes and content knowledge subscales in PISA.

Construct wise, the elements of scientific literacy between PISA and PCAP are very similar; however, there were some difference in categorizations and embedding of skills, competencies and subdomains within elements. PISA also seemed to have more overlapping of categorizations to demonstrate the intertwining of the aspects, and finer descriptions of the



domain and the specifications than PCAP. Scientific competencies in PISA were also part of the subscales, while the competencies and subscales in PCAP are broader and sometimes overlap with more than one subscales in PISA. For example, the description of *natural science* PCAP subdomain seemed to overlap with all the three aspects of scientific knowledge. On measuring science, both PISA and PCAP's goals were to evaluate students' capabilities to apply their scientific knowledge into contexts outside of classrooms.

Although it was more challenging to match each of the competencies and subdomains one-to-one between PISA and PCAP, the underlying skills measured and the overlaps between the two tests were similar when a holistic picture at the domain levels were viewed on the frameworks. However, it is not surprising that the frameworks of science and mathematics for PCAP are similar to PISA, as they were developed to align with international large-scale assessments like PISA and TIMSS, and the provincial curricula (Brochu et al., 2013).

**Populations: to what extent are the two tests designed to be used with the same populations?** The target population for PCAP is grade 8/secondary II students in Canada, while 15-year-olds within Canada are the target population for PISA (by PISA definitions, students should be aged between 15 years and 3 months and 16 years and 2 months by the beginning of the testing period, Westat, 2016). Both tests are usually administered towards the end of the school academic year. Although PCAP employs a grade-based sampling since its 2010 administration, the majority of the students are 13-year-olds, and majority of PISA's targeted 15-year-olds are grade 10/secondary IV students. With the difference in target population between PCAP and PISA, one similarity with their target populations is that it includes the same cohort of students initially sampled for PCAP and then for PISA two years later. The students in PCAP and PISA also wrote the tests in the same major and minor domains contexts for the two tests.

However, with other factors that may causes changes or instability within the cohort across two year, one cannot simply assume the target populations of the two tests came from exactly the same cohort.

**Measurement characteristics/conditions: to what extent do the two tests share common measurement characteristics or conditions?** Prior to 2015, both PCAP and PISA administered their tests on paper and, since 2015, PISA administer their test as computer-based with the use of USB keys, while PCAP remained paper administration until the most recent 2019 cycle which was administered online. The structures of the two tests are similar for all subject contents, with a context/story presented first, followed by a set of associated items. Testing times to complete the assessment items for both PISA and PCAP are two hours. The tests were composed of both selected-response items and constructed-response items. Their table of specifications of more similar categories are presented as follows:

Table 4.4.

*Table of specifications: PISA and PCAP Mathematics*

	PISA <sup>a</sup>	Percentage of items	PCAP <sup>b</sup>	Percentage of items
Subdomains	Content category			
	Change and relationships	25	Numbers and operations	36
	Space and shape	25	Geometry and measurement	28
	Quantity	25	Patterns and relationships	13
	Uncertainty and data	25	Data management and probability	23
	<b>Total</b>	<b>100</b>	<b>Total</b>	<b>100</b>

<sup>a</sup> From OECD (2013), *PISA 2012 Assessment and Analytical Framework: Mathematics, Reading, Science, Problem Solving, and Financial Literacy*, OECD Publishing, Paris. Retrieved from [https://www.oecd.org/pisa/pisaproducts/PISA%202012%20framework%20e-book\\_final.pdf](https://www.oecd.org/pisa/pisaproducts/PISA%202012%20framework%20e-book_final.pdf) (p. 23-58).

<sup>b</sup>From Council of Ministers of Education, Canada. (2010). *Pan-Canadian Assessment Program (PCAP): Mathematics Assessment Framework*, CMEC, Toronto. Retrieved from <https://www.cmec.ca/docs/pcap/pcap2013/Math-Framework-April-2013-EN.pdf> (p. 1-19).

Table 4.5.

*Table of specifications: PISA and PCAP Science*

	PISA <sup>a</sup>	Percentage of items	PCAP <sup>b</sup>	Percentage of items
Competencies	Explain phenomena scientifically	40-50	Science inquiry	34
	Evaluate and design scientific enquiry	20-30	Problem solving	12
	Interpret data and evidence scientifically	30-40	Scientific reasoning	54
	<b>Total</b>	<b>100</b>	<b>Total</b>	<b>100</b>
Subdomains	Physical	36	Nature of science	34
	Living	36	Life science	25
	Earth and space	28	Physical science	25
			Earth science	16
	<b>Total</b>	<b>100</b>	<b>Total</b>	<b>100</b>
Type of knowledge (PISA only)	Content	54-66		
	Procedural	19-31		
	Epistemic	10-22		
	<b>Total</b>	<b>100</b>		

<sup>a</sup>From OECD (2017), *PISA 2015 Assessment and Analytical Framework: Science, Reading, Mathematic, Financial Literacy and Collaborative Problem Solving – Revised edition*, OECD Publishing, Paris. Retrieved from <http://www.oecd.org/publications/pisa-2015-assessment-and-analytical-framework-9789264281820-en.htm> (p. 28-30).

<sup>b</sup>From Council of Ministers of Education, Canada. (2013). *Pan-Canadian Assessment Program (PCAP): Science Assessment Framework*, CMEC, Toronto. Retrieved from <https://www.cmec.ca/docs/pcap/pcap2013/PCAP-2013-Science-Assessment-Framework-EN.pdf> (p. 14).

The tables of specifications were more difficult to compare due to the difference in subdomains and other categories between PISA and PCAP. For example, PCAP considered cognitive demands into the distribution of mathematics items, while PISA had a set of item

distribution for each of the subdomain category. Each PISA item is more difficult to isolate into a single category because processes, knowledge, and competencies go hand in hand to define the domains of mathematics and science, as illustrated in the frameworks. Although PCAP had similar definitions in their framework, the table of specifications are less complex. In terms of the distributions of items between PISA and PCAP, both tests tend to have fairly even distribution of items within most categories.

The similarities between PISA and PCAP are reviewed in this section. Comparisons in this section demonstrated that PISA and PCAP shared many similarities, while they also have some differences. To further explore the relationships between PISA and PCAP, the relationships of scores of the two tests combined were evaluated.

### **Correlations and Convergent Validity**

**Correlations and convergent validity.** In addition to understanding PCAP and PISA contextually, their relationships were evaluated. Correlations between the type of test and test scores were performed with four conditions:

1. PCAP 2010 and PISA 2012 – mathematics as major domains in both tests
2. PISA 2012 and PCAP 2013 – mathematics as major and minor domains respectively
3. PISA 2012 and PCAP 2013 – science as minor and major domains respectively
4. PCAP 2013 and PISA 2015 – science as major domains in both tests

Correlations between the two tests cannot be simply calculated as the students did not complete both tests, and organization of the data had to be structured differently. In addition, as mentioned in Chapter 3, unlike PCAP, student scores in PISA are not represented by a single score but with the use of plausible values. Plausible values (PV) in PISA, according to OECD (2017a), are multiple imputations or estimations drawn from a posteriori distribution, by

combining IRT scaling of PISA test items with a latent regression model based on the population model estimated using contextual variables from the student questionnaire. The use of such modelling requires multiple values to be estimated as they represent the uncertainty of the domain more appropriately (OECD, 2017a). PISA 2012 had five PVs for each domain, and PISA 2015 had 10 PVs for each domain due to an improvement in IRT scaling and population modeling. If one is interested in running correlations with PVs, then it was recommended to correlate the variable of interest with each PV of the domain, and then average the coefficients (OECD, 2009).

To obtain the correlations in this study, scores of PCAP were combined with each of the PVs for PISA as one variable (e.g., PCAP mathematics score merged with PISA mathematics PV 1 score as one variable, PCAP mathematics score merged with PISA mathematics PV 2 score as a second variable, etc.), and each of these combined variables were correlated with test type (i.e., 0=PCAP; 1=PISA). It was hypothesized that an insignificant or a very weak correlation indicates the type of test is not related to the scores, implying the scores can be treated as coherent.

The type of correlation used was point-biserial correlation as one variable is dichotomous (i.e., type of test) while the other variable is continuous (i.e., domain/subdomain scores). For major domains, the scores for the overall content were correlated. Their subdomain scores were also correlated to explore their relationships. Due to some differences in the categorization of subdomains and their definitions for PISA and PCAP, correlation pairs were matched based on descriptions that were most similar, as defined in the frameworks. Subdomains that cannot be matched with the other test were omitted from the correlational analyses. For the correlations of major and minor domains, only the overall domain scores were included into the analyses.

**Correlations: mathematics as major domains.** Scale scores of both PCAP 2010 and PISA 2012 of mathematics and their subdomain scores were combined into one dataset. There were 53,923 cases in the combined dataset. In addition to the subdomain scores, the PCAP 2010 dataset also included one process subscale score – *problem solving*, and this subscale was matched closely to the description of the *employ* mathematical process subscale in PISA. This subscale match was also included in the correlation analyses for mathematics. The table below presents the matches of subdomain and subscales between PISA and PCAP, each row represents the matching.

Table 4.6.

*Correlations of mathematics subdomains/subscales*

<b>PISA subdomain/subscale</b>	<b>PCAP subdomain/subscale</b>
Change and relationships	Patterns and relationships
Space and shape	Geometry and measurement
Quantity	Numbers and operations
Uncertainty and data	Data management and probability
Employing mathematical concepts	Problem solving

The following table presents the correlations between the tests type (i.e., PCAP, PISA) and the scores of PCAP combined with each of the five PVs in PISA, for the overall mathematics scores, and for each of the subdomain/subscales matches identified in Table 4.6.

Table 4.7.

*Correlation results of mathematics as major domains (PCAP 2010 and PISA 2012)*

	PCAP score & PISA PV1	PCAP score & PISA PV2	PCAP score & PISA PV3	PCAP score & PISA PV4	PCAP score & PISA PV5
Mathematics scores overall					
Test type	.10*	.10*	.10*	.10*	.10*
Subdomains: Patterns and relationships (PCAP) & Change and relationships (PISA)					
Test type	.13*	.12*	.13*	.13*	.13*
Subdomains: Geometry and measurement (PCAP) & Space and shape (PISA)					
Test type	.07*	.07*	.07*	.07*	.07*

Subdomains: Numbers and operations (PCAP) & Quantity (PISA)					
Test type	.06*	.05*	.06*	.06*	.06*
Subdomains: Data management and probability (PCAP) & Uncertainty and data (PISA)					
Test type	.08*	.08*	.08*	.08*	.08*
Subdomains: Problem solving (PCAP) & Employing mathematical concepts (PISA)					
Test type	.10*	.10*	.10*	.10*	.10*

\* denotes significant correlation at alpha = .01.

Results have shown that all correlations are significant, which is very common in large-scale assessment especially when the sample size is very large, even when the size of correlations are small. In this case, the strength of the correlations should be taken into greater considerations than the significance. According to Cohen (1988), correlation with absolute value of .10 is considered small in size, and according to O'Rourke, Hatcher, and Stepanski (2005), correlation of  $\pm .20$  is considered as weak correlation. In PCAP reports, correlations of .20 are considered as too weak to be reported as well (O'Grady & Houme, 2015), therefore for the purpose of this research, correlation of  $\pm .20$  or below are considered as weak or negligible. As shown in Table 4.7, the correlations ranged from .05 to .13, with all the correlations below .20 and majority below .10, meaning that despite the test type (i.e., PCAP, PISA), the mathematics scores tend to be consistent and stable between tests.

***Correlations: mathematics as major and minor domains.*** Mathematics scores for PISA 2012 (major domain) and PCAP 2013 (minor domain) were combined to determine the correlation. No subscale correlation was examined in this condition. There were 53,372 cases in this dataset. Table 4.8 presents the correlation results.

Table 4.8.

Correlation results of mathematics as major and minor domains (PISA 2012 and PCAP 2013)

Test type	Mathematics scores overall				
	PCAP score & PISA PV1	PCAP score & PISA PV2	PCAP score & PISA PV3	PCAP score & PISA PV4	PCAP score & PISA PV5
	.06*	.06*	.06*	.06*	.06*

\* denotes significant correlation at alpha = .01.

Similar to the results reported in the previous section when mathematics were the major domains, although all correlations were found to be significant, the correlations between test type and the mathematics scores when mathematics were major and minor domains were only different to the third decimal point, and all were below .10, meaning that despite the test type (i.e., PCAP, PISA), the mathematics scores tend to be consistent.

**Correlations: science as major domains.** Scale scores of both PCAP 2013 and PISA 2015 of science and their subdomain scores were combined into one dataset. There were 51,886 cases in the combined dataset. Unlike PISA 2013 where there were five PVs for each content, PISA 2015 consisted of 10 PVs, meaning each PCAP score was merged 10 times to each PISA PV for this correlational analysis. In the PCAP framework, the subdomains have only identified what is similar to the *system* subscale of PISA, with the description of these subdomains overlapping with the *knowledge* subscale of PISA. However, in the PCAP dataset, competencies subscale scores were also provided. Therefore, the correlational analyses included the matching of these competencies subscales with the competencies of PISA. Although the matching of the competencies and subscales between PISA and PCAP may not be perfect matches as there were overlaps across categories and the differences in their wording, it was assumed that the relationships between the partially-exact matches should show similar correlational results as the exact matches, but with the possibility of different magnitudes. The table below presents the



matches of subdomain and subscales between PISA and PCAP, each row represents the matching. The subdomain *nature of science* in PCAP was not matched with any PISA subdomain as the definition overlaps with all of the *scientific knowledge* subdomains in PISA, which would cause the comparisons to be more complicated and challenging to interpret.

Table 4.9.

*Correlations of science subdomains and subscale scores*

PISA subdomain/subscale	PCAP subdomain/subscale
Explain phenomena scientifically	Science inquiry
Evaluate and design scientifically enquiry	Problem solving
Interpret data and evidence scientifically	Scientific reasoning
Living systems	Life sciences
Physical systems	Physical sciences
Earth and space systems	Earth sciences

The following table presents the correlation results on the science scores overall and the matches of subdomains from Table 4.9.

Table 4.10.

## Correlation results of science as major domains (PCAP 2013 and PISA 2015)

	PCAP score & PISA PV1	PCAP score & PISA PV2	PCAP score & PISA PV3	PCAP score & PISA PV4	PCAP score & PISA PV5	PCAP score & PISA PV6	PCAP score & PISA PV7	PCAP score & PISA PV8	PCAP score & PISA PV9	PCAP score & PISA PV10
Science scores overall										
Test type	.13*	.13*	.13*	.13*	.13*	.13*	.13*	.13*	.13*	.13*
Subdomains: Science inquiry (PCAP) & Explain phenomena scientifically (PISA)										
Test type	.15*	.14*	.14*	.13*	.13*	.13*	.14*	.13*	.14*	.13*
Subdomains: Problem solving (PCAP) & Evaluate and design scientifically enquiry (PISA)										
Test type	.11*	.12*	.12*	.12*	.12*	.12*	.12*	.11*	.12*	.13*
Subdomains: Scientific reasoning (PCAP) & Interpret data and evidence scientifically (PISA)										
Test type	.11*	.10*	.10*	.10*	.11*	.10*	.10*	.10*	.10*	.12*

Subdomains: Life sciences (PCAP) & Living systems (PISA)										
Test type	.11*	.11*	.10*	.11*	.11*	.11*	.11*	.11*	.11*	.12*
Subdomains: Physical sciences (PCAP) & Physical systems (PISA)										
Test type	.12*	.12*	.13*	.11*	.12*	.11*	.12*	.11*	.11*	.12*
Subdomains: Earth sciences (PCAP) & Earth and space systems (PISA)										
Test type	.11*	.12*	.11*	.11*	.11*	.12*	.12*	.11*	.11*	.12*

\* denotes significant correlation at alpha = .01.

Although all correlations were significant, correlations of science as major domains ranged from .10 to .14 which were slightly higher than mathematics, however, similar to mathematics, they still fell below .20, indicating that that despite the test type (i.e., PCAP, PISA), the science scores tend to be coherent.

**Correlations: science as major and minor domains.** Science scores of PISA 2012 (minor domain) and PCAP 2013 (major domain) were combined to determine the correlation. No subscale correlation was examined in this condition. There were 53,372 cases in this dataset. Table 4.11 below presents the correlations for the science scores overall.

Table 4.11.

Correlation results of science as major and minor domains (PISA 2012 and PCAP 2013)

Science scores overall					
	PCAP score & PISA PV1	PCAP score & PISA PV2	PCAP score & PISA PV3	PCAP score & PISA PV4	PCAP score & PISA PV5
Test type	.12*	.12*	.12*	.12*	.12*

\* denotes significant correlation at alpha = .01.

Correlations between the test type and the science scores only differed to the third decimal point, and all of them were found to be significant but below the .20 threshold. Similar to the three conditions above, this result indicated that the scores are coherent despite the test type (i.e., PCAP, PISA).

The correlation results demonstrated that for both mathematics and science, whether they are major domains or major and minor domains, the combined test scores of PCAP and PISA are coherent across test types. This further provided evidence of convergent validity for comparing the PCAP and PISA test scores. In the next section, the first linking method was tested with concurrent calibration.

### **Concurrent Calibration**

Two methods of linking were tested. First, concurrent calibration using IRT approach was used as a method of vertical scaling. Student responses of PCAP and PISA were combined together to establish linking of the following four conditions: (1) mathematics as major domains; (2) mathematics as major and minor domains; (3) science as major domains; and (4) science as major and minor domains. On the linking of major domains, only the domain scores (i.e., mathematics scores and science scores) will be established, and linking was not performed on subdomain scores due to the complexity of matching subdomains between PCAP and PISA, as discussed in an earlier section on construct comparisons. The difference between the linking of major domains and the linking of major and minor domains was the difference in number of items used, while more items were included into the calibration for the major domains, and fewer items were included into the calibration of major and minor domains.

Both the PCAP and PISA datasets contain codes for *not-reached (NR) items*, which were items towards the end of the tests not responded by students due to time constrains. The treatment of not-reached items in this study followed the procedure of PCAP. Not-reached items were treated as not administered (i.e., missing) during calibrations while they were treated as incorrect during the scoring phase.

On data preparations, items from PCAP and PISA were combined using the four conditions described above (i.e., by subject area). The items in the datasets were already recoded into 0 and 1 (incorrect and correct response, respectively) for multiple-choice items, and the actual scores received by students for the constructed-response items. NR items were then recoded as missing for the datasets to use in IRT calibrations, and for the datasets to use in scoring, the NR items were coded as 0 (incorrect response). These datasets were used for the overall calibration and scoring. The eight datasets were then divided by language (i.e., English and French) for calibration and scoring by language for each condition, for the purpose of comparing the calibration results between languages and with the overall results. Three ways of calibration and scoring were performed: (a) calibrations using the full combined dataset and scoring the entire sample of students; (b) calibrations using the full combined dataset and scoring English and French subdivided dataset separately using the parameter obtained from the calibration; and (c) calibrations and scoring of English and French subdivided datasets separately. As discussed in the previous chapter, the method in (c) was leading to the direction of separate calibration (SC), and although the purpose was to demonstrate the possibility of differences between CC and SC, no further linking was done in this study to place the scales from SC together, therefore further analyses of results and the conversation tables in this study only employed the results from (a) and (b), hence the results of CC.

After scoring, the scores were scaled with a mean of 500 and standard deviation (SD) of 100, similar to the mean and SD for PCAP and PISA used. It should be note that the number of items in the Canadian dataset of PISA would not correspond to the total number of items administered in the entire PISA test, as some of the items were removed from the Canadian version of the test due to inappropriate/unsuitable of context. The resulting scores from

concurrent calibrations can be found in Appendices E to H comparing the original scores and the new scores obtained using concurrent calibrations. It is important to note that, although two students could obtain the same PISA PV1, they may obtain different new scores from the concurrent calibration method. It is due to the population modeling method used by OECD to estimate the PVs for each student in PISA. For the sake of simplicity and easy referencing, the score conversion tables in Appendices E to H removed any duplication of original PISA PV1 score, and the first score was obtained whenever duplication existed. The new conversion of scores in these tables were presented only as a preliminary understanding, as it is always recommended that all PVs should be examined in analyses. The duplication of original PCAP scores also existed, and the same rule applied for removing duplicated scores in the conversion table, such duplication existed because scoring was conducted using the concurrent method at the student level (i.e., each participated students obtained a score).

Upon scoring students on a common metric, bootstrapping was used to estimate the standard errors for the mean score overall, and by language groups. Means calculated include the overall means from the full combined datasets, English and French subgroup means within the full combined datasets, English and French group means from the separate scoring using parameters from the full data calibrations, and English and French group means from individual calibrations and scoring. The SAS statement *proc surveysselect* with unrestricted random sampling (*urs*) as method, and 200 replications was used to perform the bootstrapping.

**Mathematics as major domains.** The PCAP 2010 dataset contained 76 mathematics items in total across four booklets, of which 19 of those items were anchored to the booklets. PISA 2012 dataset contained 84 mathematics items distributed across 13 booklets, of which 72 items were anchor items to the booklets. The combined dataset for concurrent calibration include

a total of 160 mathematics items and 53,915 cases. In addition, the combined dataset was further separated by language for calibration by language. There were 164 cases with missing language variable, which lead to 39,849 cases in the English dataset and 13,902 cases in the French dataset.

***Mean comparisons and correlations.*** The following table presents the mean and bootstrapped standard errors for calibrations and scoring using the entire combined dataset, and datasets separated by language:

Table 4.12.

*Means and standard errors – Mathematics as major domains*

Calibration and scoring	Mean	Bootstrapped standard error
Full combined dataset	499.02	0.44
English subgroup of full combined dataset	493.44	0.46
French subgroup of full combined dataset	515.00	0.67
English group scored with parameters from full dataset	492.92	0.48
French group scored with parameters from full dataset	515.00	0.78
English group calibrated and scored separately	499.17	0.49
French group calibrated and scored separately	498.58	0.76

Comparisons of means between English and French indicated that there were significant difference within the full combined dataset ( $t = 26.47, p < .05$ ), and the language groups scored separately using the parameters from the full calibration ( $t = 24.21, p < .05$ ). There was no significant difference in means between the language groups when they were calibrated and scored independently ( $t = 0.65, p > .05$ ).

When exploring the differences by each language, the means of the English subgroup of full combined dataset ( $M = 493.44, SE = .459$ ) and the English group separated ( $M = 499.17, SE = .492$ ) produced scores with a significant difference ( $t = 8.52, p < .05$ ). Similar result was found

between the means of the French subgroup of full combined dataset ( $M = 515.00$ ,  $SE = .673$ ) and the French group separated ( $M = 498.58$ ,  $SE = .760$ ), difference ( $t = 16.17$ ,  $p < .05$ ). The mean difference was greater in the French group comparison. However, when it comes to comparisons of means between the English group mean that were scored using the item parameters from the full dataset ( $M = 492.92$ ,  $SE = .481$ ), and the English subgroup mean obtained from calibration and scoring of the full dataset ( $M = 493.44$ ,  $SE = .459$ ), no significant difference was found ( $t = 0.78$ ,  $p > .05$ ). No significant difference ( $t = 0$ ,  $p > .05$ ) was also found in the French comparison of means between the French group mean that were scored using the item parameters from the full dataset ( $M = 515.00$ ,  $SE = .775$ ), and the French subgroup mean obtained from calibration and scoring of the full dataset ( $M = 515.00$ ,  $SE = .673$ ). The results of the mean comparisons indicated that group invariance cannot be achieved when the calibration was conducted together despite scoring them as a whole or scoring the subgroups individually. In addition, the consistencies of means within language group were not maintained when calibration and scoring were done independently.

Correlations of the scores between the language groups and the total group scores were also performed. Significant and high correlations were found for both languages, with both English and French correlated rounded to 1.00:  $r(39,847) = 1.00$  (rounded)  $p < .01$  for English, and  $r(13,900) = 1.00$  (rounded),  $p < .01$  for French. This result suggested that the calibration of scoring separately by language was very consistent with the calibration of scoring of the total group.

**TCC plots.** Test characteristics curves (TCC) from the calibration of the full datasets and the English and French groups separately are shown in Figure 4.1 below:

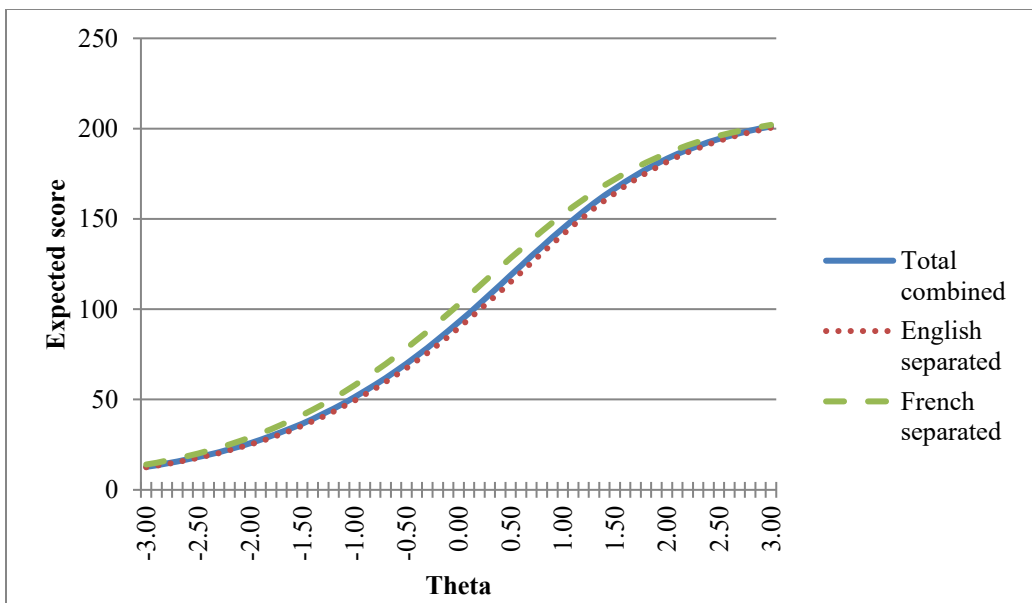


Figure 4.1. TCCs of overall combined, and by language groups separated – mathematics as major domains.

The TCCs were generated based on the expected scores from the initial concurrent calibrations prior to scoring and scaling, and it shows that the English group is closer to the total combined than the French group, especially around theta between -2 to 2. The French group deviated more from the total sample, as shown in the difference plot in expected, pre-scaled scores below:

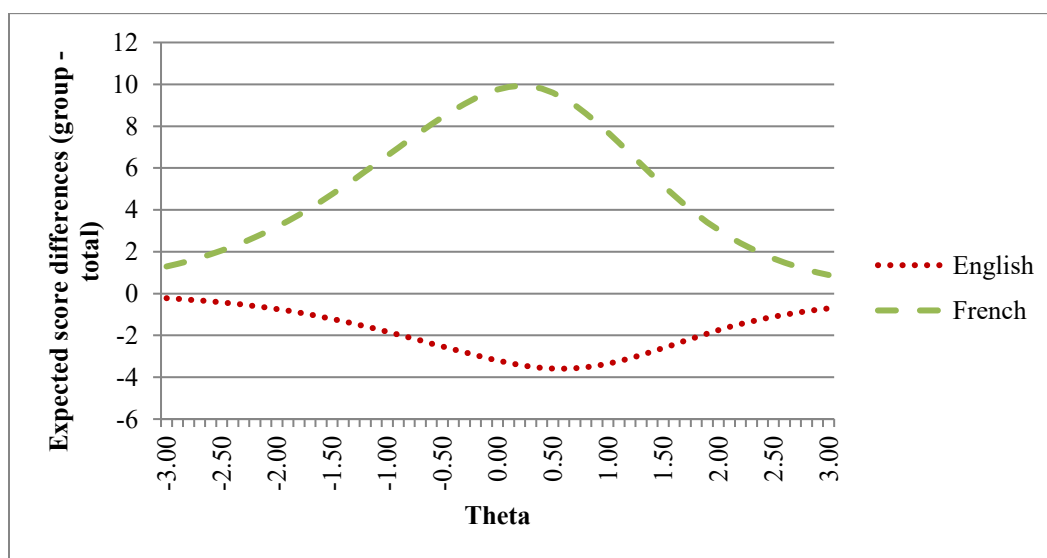


Figure 4.2. Differences plot – mathematics as major domains.



This plot revealed that the differences between the groups and the total are greater for the French group, with a maximum of almost 10-point difference compared to a maximum of almost 4 points difference in the English group. The peaks of differences were the greatest around theta 0.30 and 0.60.

**REMSD.** The calculation of REMSD involved the new scores generated from the calibration and scoring, and the language subgroup scores generated from the language group calibration and scoring. REMSD for the English subgroup was 0.07, and REMSD for the French subgroup was 0.11. To evaluate the REMSD for both language subgroups, “Difference That Matters” (DTM) was calculated using half of a unit of the integer score normally used for reporting mean scores of PCAP, as individual student scores are not reported, the DTM is then standardized using the SD from the total group. With SD of the total group was 93.35, the standardized DTM was calculated as  $.5/93.35 = 0.01$ . The REMSD for both language groups were above the DTM, indicated that population invariance did not hold for both the English and the French groups in this condition.

**Mathematics as major and minor domains.** The same PISA 2012 dataset from the previous condition was used in this condition. It contained 84 mathematics items distributed across 13 booklets, of which 72 items were anchor items in the booklets. The PCAP 2013 dataset contained all of the 19 mathematics anchor items across four booklets. The combined dataset for concurrent calibration include a total of 128 mathematics items and 53,372 cases. There were 164 cases with missing language variable, and the subdivided datasets by language included 39,273 cases for the English dataset, and 13,935 cases for the French dataset.

***Mean comparisons and correlations.*** The following table presents the mean and bootstrapped standard errors for calibrations and scoring using the entire combined dataset, and datasets separated by language:

Table 4.13.

*Means and standard errors – Mathematics as major and minor domains*

Calibration and scoring	Mean	Bootstrapped standard error
Full combined dataset	499.01	0.32
English subgroup of full combined dataset	494.46	0.44
French subgroup of full combined dataset	511.85	0.76
English group scored with parameters from full dataset	494.46	0.44
French group scored with parameters from full dataset	511.85	0.73
English group calibrated and scored separately	499.16	0.44
French group calibrated and scored separately	498.59	0.73

Similar to the results when mathematics were major domains, comparisons of means between English and French indicated that there were significant difference within the full combined dataset ( $t = 19.82, p < .05$ ), and the language groups scored separately using the parameters from the full calibration ( $t = 20.37, p < .05$ ). There was no significant difference in means between the language groups when they were calibrated and scored independently ( $t = 0.67, p > .05$ ).

On the language group differences, between the means of the English subgroup of full combined dataset ( $M = 494.46, SE = .44$ ) and the English group separated ( $M = 499.16, SE = .44$ ), there is a significant difference ( $t = 7.58, p < .05$ ). A similar result was found between the means of the French subgroup of full combined dataset ( $M = 511.85, SE = .76$ ) and the French group separated ( $M = 498.59, SE = .73$ ), where a significant difference was found ( $t = 12.61, p < .05$ ). The mean difference was also greater in the French group comparison. When mathematics

is the major and minor domains, it was found that the same means were obtained despite using different methods. The results of this condition indicated that similar to mathematics as major domains, group invariance could not be achieved when the calibration was done all together despite scoring them as a whole or scoring the subgroups individually. In addition, the consistencies of means within language group were not maintained when calibration and scoring were done independently.

Correlations of the scores between the language groups and the total group scores showed significant and high correlations for both languages, with both English and French correlated rounded to 1:  $r(39271) = 1.00, p < .01$  for English, and  $r(13933) = 1.00, p < .01$  for French. This result suggested that the calibration of scoring separately by language was consistent with the calibration of scoring for the total group.

**TCC plots.** The following graph shows the TCC plots for the full, total combined plot, comparing with the TCCs of separate language groups. The expected scores were obtained upon completion of concurrent calibrations, prior to scoring and scaling.

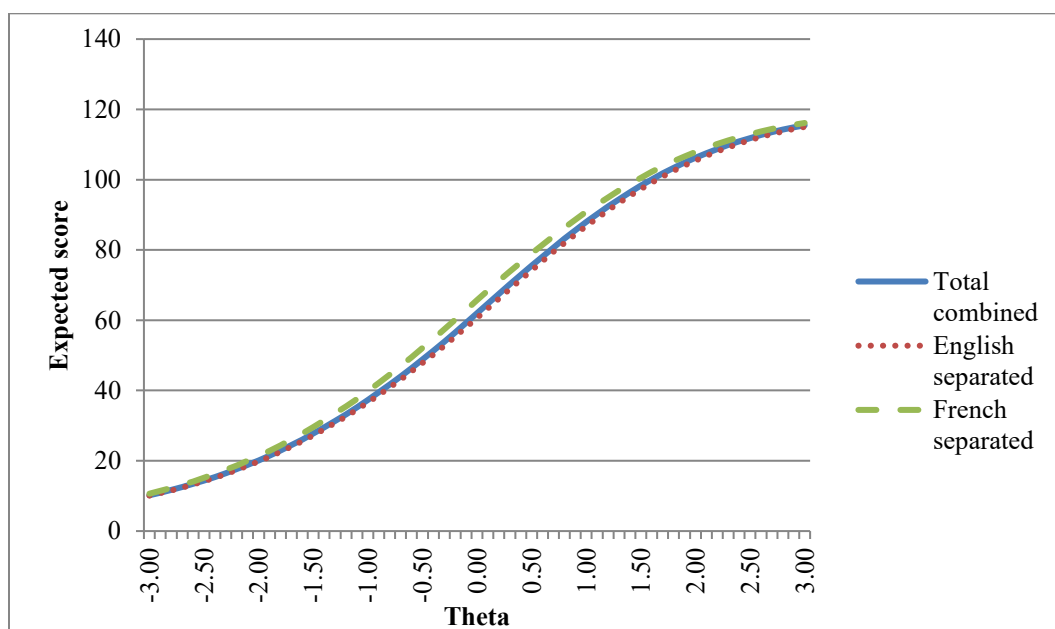


Figure 4.3. TCCs of overall combined, and by language groups separated – mathematics as major and minor domains.

An inspection of the TCCs shows a similar pattern to the TCCs when mathematics was the major domains. At theta between -1.50 to 1.50, the French group deviated more from the total combined group, while the English group stayed very close to the total combined group.

Figure 4.4 below displayed the plots of differences in TCCs.

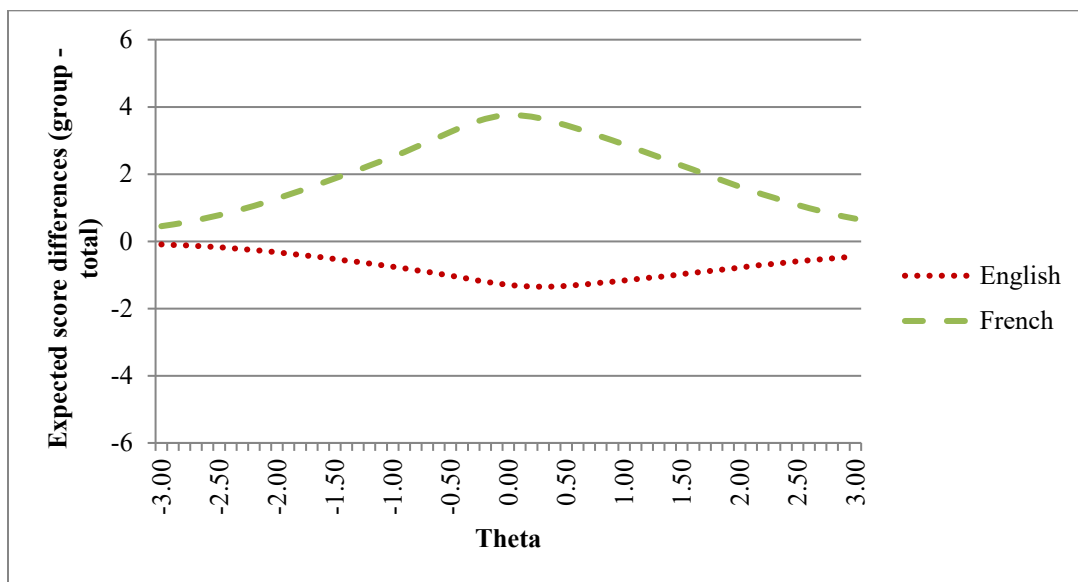


Figure 4.4. Differences plot – mathematics as major and minor domains.

This plot showed a smaller range of differences between the English and the French groups, in comparison to mathematics as major domains, with maximum of close to a difference of 4 points in the French group and a maximum of around 1.70 point difference in the English group. Similarly, the French group had higher scores than the total group across all theta, while the English group had lower scores than the total group. The peaks were the greatest around theta 0 and 0.50.

**REMSD.** The calculation of REMSD involved the new scores generated from the calibration and scoring, and the language subgroup scores generated from the language group

calibration and scoring. The REMSD for the English subgroup was 0.50, and the REMSD for the French subgroup was 0.47. To evaluate the REMSD for both language subgroups, the standardized DTM was calculated. With SD of the total group at 86.79, the standardized DTM was calculated as  $.5/86.79 = 0.01$ . The REMSD for both language groups were above the DTM, indicated that population invariance did not hold for both the English and the French groups in this condition.

**Science as major domains.** The PCAP 2013 dataset contained 111 science items in total across four booklets, of which 14 of those items were anchored to the booklets. PISA 2015 dataset for the computer-based test contained 184 coded science items, of which 85 items were anchor items to the booklets. The larger amount of items and booklets in PISA 2015 compared to previous cycles was explained by the administration mode of computer based testing in PISA 2015. The combined dataset for concurrent calibration include a total of 296 science items and 52,447 cases. The subdivided datasets by language included 39210 cases for the English dataset, and 13,237 cases for the French dataset.

**Mean comparisons and correlations.** The following table presents the mean and bootstrapped standard errors for calibrations and scoring using the entire combined dataset, and datasets separated by language:

Table 4.14.

*Means and standard errors – Science as major domains*

Calibration and scoring	Mean	Bootstrapped standard error
Full combined dataset	499.25	0.36
English subgroup of full combined dataset	502.20	0.46
French subgroup of full combined dataset	490.50	0.81
English group scored with parameters from full dataset	502.20	0.48
French group scored with parameters from full dataset	490.00	0.84

English group calibrated and scored separately	500.08	0.48
French group calibrated and scored separately	498.43	0.90

The same patterns of results as mathematics as major domains were found in science as major domains. That when language means were compared, there were significant difference within the full combined dataset ( $t = 12.64, p < .05$ ), and the language groups scored separately using the parameters from the full calibration ( $t = 12.62, p < .05$ ). There was no significant difference in means between the language groups when they were calibrated and scored independently ( $t = 1.62, p > .05$ ).

When exploring the differences by each language, the means of the English subgroup of full combined dataset ( $M = 502.20, SE = .45$ ) and the English group separated ( $M = 500.08, SE = .48$ ) produced scores with a significant difference ( $t = 3.22, p < .05$ ). Similar result was found between the means of the French subgroup of full combined dataset ( $M = 490.50, SE = .81$ ) and the French group separated ( $M = 498.43, SE = .90$ ) difference ( $t = 6.56, p < .05$ ). When it comes to comparisons of means between the English group mean that were scored using the item parameters from the full dataset ( $M = 502.20, SE = .48$ ), and the English subgroup mean obtained from calibration and scoring of the full dataset ( $M = 502.02, SE = .45$ ), no significant difference was found ( $t = 0, p > .05$ ) as their means remained unchanged. No significant difference ( $t = 0.43, p > .05$ ) was also found in the French comparison of means between the French group mean that were scored using the item parameters from the full dataset ( $M = 490.00, SE = .84$ ), and the French subgroup mean obtained from calibration and scoring of the full dataset ( $M = 490.50, SE = .81$ ). The results of the mean comparisons in this condition indicated that group invariance could not be achieved when the calibration was conducted together despite scoring them as a whole or scoring the subgroups individually. In addition, the consistencies of

means within language group were not maintained when calibration and scoring were done independently.

Correlations of the scores between the language groups and the total group scores showed significant and high correlations for both languages, with both English and French correlated rounded to 1:  $r(39187) = 1.00, p < .01$  for English, and  $r(13227) = 1.00, p < .01$  for French. This result suggested that the calibration of scoring separately by language was very consistent with the calibration of scoring of the total group.

**TCC plots.** TCCs were also plotted to compare the differences in expected scores between the language groups and the total group.

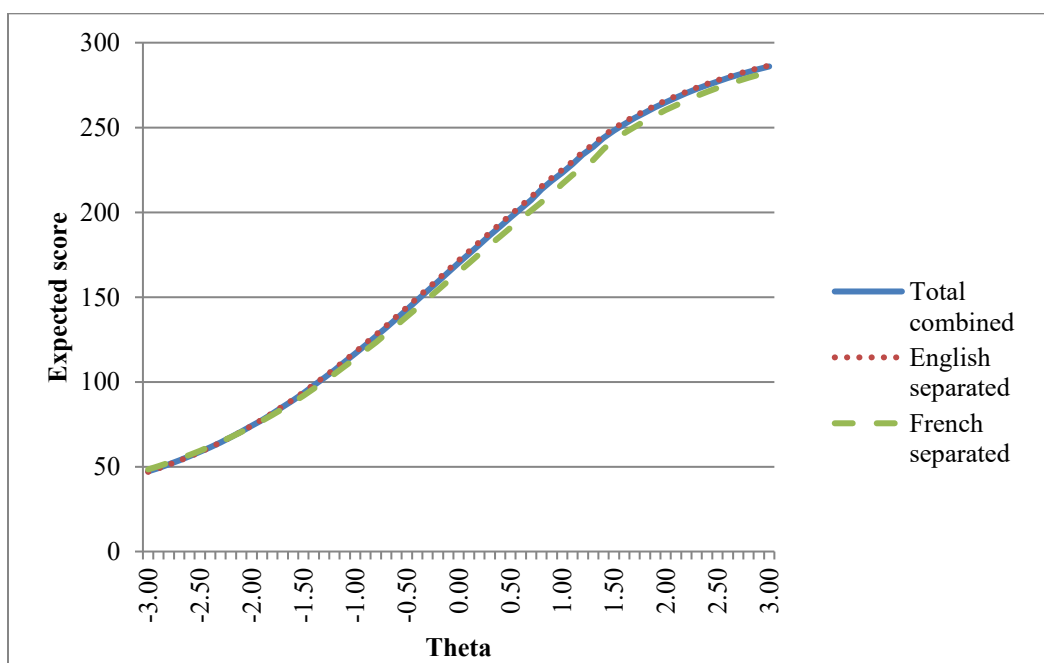


Figure 4.5. TCCs of overall combined, and by language groups separated – science as major domains.

Unlike the patterns found in mathematics, when science is the major domains, the French group scored below the total group and the English group started from theta at around -1.00.

However, the deviation of the French group is lesser here for science than Figure 4.1 and Figure

4.3 for mathematics. In terms of the English group, it aligned closely with the total group. The figure below plotted the differences between the language groups and the total group.

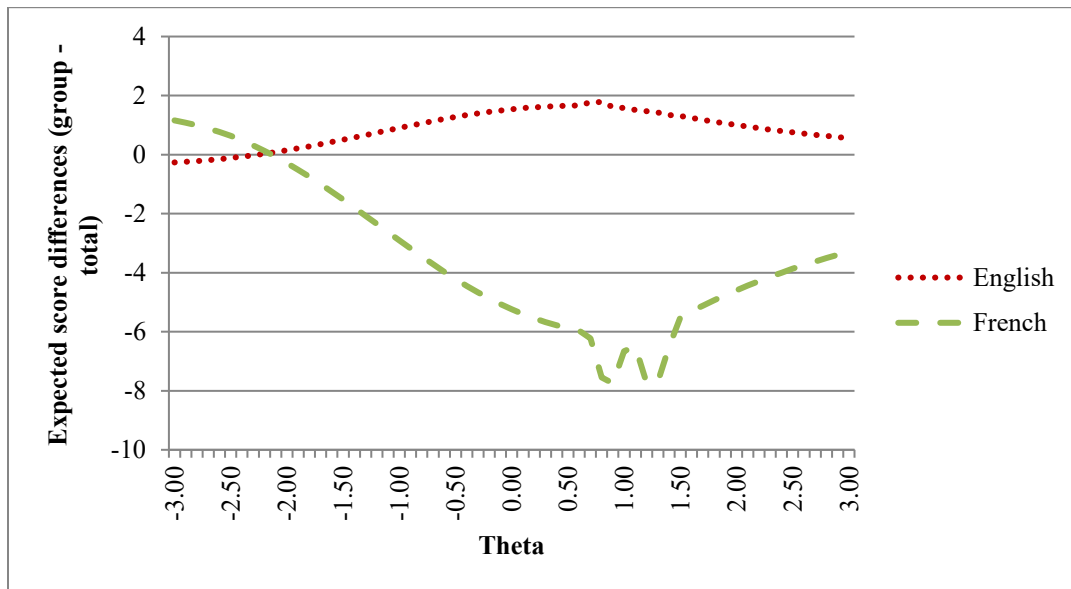


Figure 4.6. Differences plot – science as major domains.

As the French group had demonstrated lower scores than the English and the total groups, the difference plots in Figure 4.6 showed a reversed in score patterns compared to mathematics, that when science was the major domains. At the lower theta around -2.20, the French group scored higher than the total group, however, beyond that theta point, the English group began to score higher than the total group. The curves were also not as smooth as the mathematics plots, as there were two bumps between theta 0.70 and 1.50 in the French group. As expected, from the TCCs, the differences found in the French group were higher than the English group, and that score differences in the English group was very minimal, with less than 2 score points at the maximum.

**REMSD.** Similar to the mathematics, the calculation of REMSD involved the new scores generated from the calibration and scoring, and the language subgroup scores generated from the language group calibration and scoring. The REMSD for the English subgroup was 0.03, and the



REMSD for the French subgroup was 0.09. To evaluate the REMSD for both language subgroups, the standardized DTM was calculated. With SD of the entire group was 89.28, the standardized DTM was calculated as  $.5/89.28 = 0.01$ . The REMSD for both language groups were above the DTM, indicated that population invariance did not hold for both the English and the French groups in this condition.

**Science as major and minor domains.** In this condition, PISA 2012 dataset was used to combine with the PCAP 2013 dataset. PISA 2012 dataset contained 53 science items distributed across 13 booklets. The same PCAP 2013 dataset as the previous condition was used which contained 111 science items. This combined dataset for concurrent calibration included a total of 164 science items and 53,933 cases. There were 164 cases with missing language variable, and the subdivided datasets by language included 39,649 cases for the English dataset, and 14,120 cases for the French dataset.

**Mean comparisons and correlations.** The following table presents the mean and bootstrapped standard errors for calibrations and scoring using the entire combined dataset, and datasets separated by language:

Table 4.15.

*Means and standard errors – Science as major and minor domains*

Calibration and scoring	Mean	Bootstrapped standard error
Full combined dataset	498.90	0.41
English subgroup of full combined dataset	502.91	0.50
French subgroup of full combined dataset	487.72	0.84
English group scored with parameters from full dataset	502.91	0.48
French group scored with parameters from full dataset	487.72	0.96
English group calibrated and scored separately	499.97	0.48
French group calibrated and scored separately	498.12	0.97

On comparisons of means between language groups, similar to the other conditions, there were significant difference within the full combined dataset ( $t = 15.56, p < .05$ ), and the language groups scored separately using the parameters from the full calibration ( $t = 14.09, p < .05$ ). There was no significant difference in means between the language groups when they were calibrated and scored independently ( $t = 1.71, p > .05$ ).

When the language group differences were examined, between the means of the English subgroup of full combined dataset ( $M = 502.91, SE = 0.50$ ) and the English group separated ( $M = 499.97, SE = 0.48$ ), there is a significant difference ( $t = 4.25, p > .05$ ). Significant difference was also found between the means of the French subgroup of full combined dataset ( $M = 487.72, SE = 0.84$ ) and the French group separated ( $M = 498.12, SE = 0.97$ ); ( $t = 8.10, p < .05$ ). When science was the major and minor domains, similar to the previous condition when science was major domains, the same means were obtained despite using different methods. The results of all the mean comparisons in this condition indicated that group invariance could not be achieved when the calibration was done all together despite scoring them as a whole or scoring the subgroups individually. In addition, the consistency of means within language group were not maintained when calibration and scoring was done independently for both language groups.

Correlations of the scores between the language groups and the total group scores showed significant and high correlations for both languages, with both English and French correlated rounded to 1 or closed to 1:  $r(34730) = 1.00, p < .01$  for English, and  $r(12468) = .99, p < .01$  for French. This result suggested that the calibration of scoring separately by language was consistent with the calibration of scoring of the total group.

**TCC plots.** The following figure showed the TCC plots from the concurrent calibration comparing expected scores of the language groups and the total group.

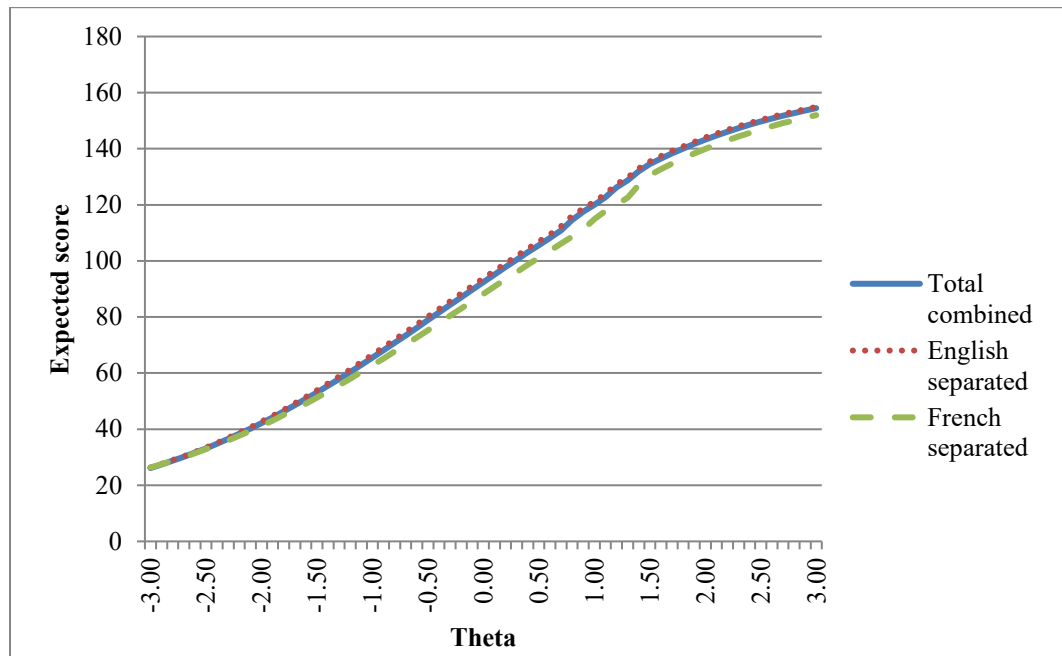


Figure 4.7. TCCs of overall combined, and by language groups separated – science as major and minor domains.

TCC plots in Figure 4.7 above showed a similar pattern as the TCC plots when science was the major domains, which the English group scored very close to the total group, and the French group scored lower than the total and the English groups beginning at around theta -1.30. Figure 4.8 below plotted the differences between the language groups and the total group scores.

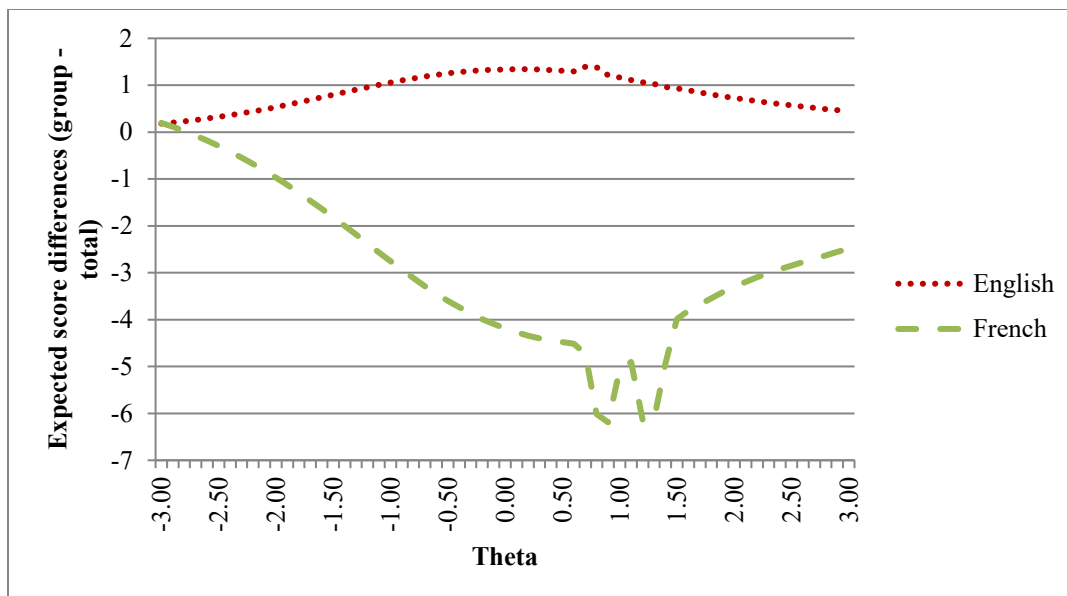


Figure 4.8. Differences plot – science as major and minor domains.

This plot revealed a similar pattern as Figure 4.6 when science as major domains. Similarly, the English group differences were smaller than the French group, with no more than approximately 1.50 score point maximum difference; while the maximum score difference in the French group is approximately 6 points. Two bumps were also found in the French group between theta of 0.70 and 1.50.

**REMSD.** The REMSDs were then calculation using the new scores generated from the calibration and scoring, and the language subgroup scores generated from the language group calibration and scoring. The REMSD for the English subgroup was 0.05, and the REMSD for the French subgroup was 0.08. To evaluate the REMSD for both language subgroups, the standardized DTM was calculated. With SD of the total group was 91.40, the standardized DTM was calculated as  $.5/91.40 = 0.01$ . The REMSD for both language groups were above the DTM, indicated that population invariance did not hold for both the English and the French groups in this condition.

### Concordance with Equipercentile Method

Another method tested for creating comparable scores between the PCAP and PISA is to produce concordance using the equipercentile method. The equipercentile method with cubic splines post-smoothing was conducted. Due to the complexity of multiple PVs in PISA, only the first PV of PISA was used to establish equivalent scores with PCAP, as one of the main purposes of this study is to determine the effectiveness of the equipercentile method in this context. After examining the ranges of scores between PISA and PCAP, PISA scores tend to have a larger range of scores than PCAP, therefore, in this case, the PV of PISA (Form X) is linked to the PCAP (Form Y) score scale. In each condition of the subject domain, separate concordance linking was conducted using the total group, and by each language group. To create the input, each possible score rounded to one decimal point was used with the equipercentile method. Post-smoothing parameters  $S$  were set as default (i.e., .01, .05, .10, .20, .30, .40, .50, .75, and 1.00). An example of the input file can be found in Appendix D. The full resulting concordance scale score tables for all the conditions can be found in Appendices I to L. The following sections present the results for the four conditions.

As both PISA and PCAP do not report on the raw scores, and only scaled scores were reported, the scale score conversions will only be reported for this study. However, the raw-to-raw equivalents output for post-smoothing will be used for graphical interpretation when choosing the appropriate smoothing parameters. For this study, the raw-to-raw scores from the output were not the actual raw scores for PISA due to the large amount of forms in PISA, instead, the scale score were also treated as PISA “raw scores”. The graphing of raw-to-raw scores between the two tests in comparison to the standard error followed the strategies suggested by Kolen and Brennan (2014), which is used to assist in making a decision on the smoothing degrees along with the inspection of moments. The strategies, according to Kolen and

Brennan (2014), involve the following steps for post-smoothing: (1) Construct the raw-to-raw equivalents – examine the graphs of raw-to-raw equivalents, and then examine the moments of the equated raw scores; (2) Construct the raw-to-scale equivalents and inspect the moments.

**Mathematics as major domains.** In this condition, PISA 2012 score data are scaled to the PCAP 2010 scale. In total, there were 3,427 unique score points, rounded to one decimal place from PISA dataset. Post-smoothing results were first compared.

**Post-smoothing parameters.** First, the raw-to-raw equivalents were graphed and compared with the standard errors at the first four  $S$  parameters ( $S = .01$ ,  $S = .05$ ,  $S = .10$ ,  $S = .20$ ), and  $S = .75$ . Due to the large number of score points, graphing all the scores would cause the graph to be more difficult to inspect, therefore, only the first 500 score points were graphed.

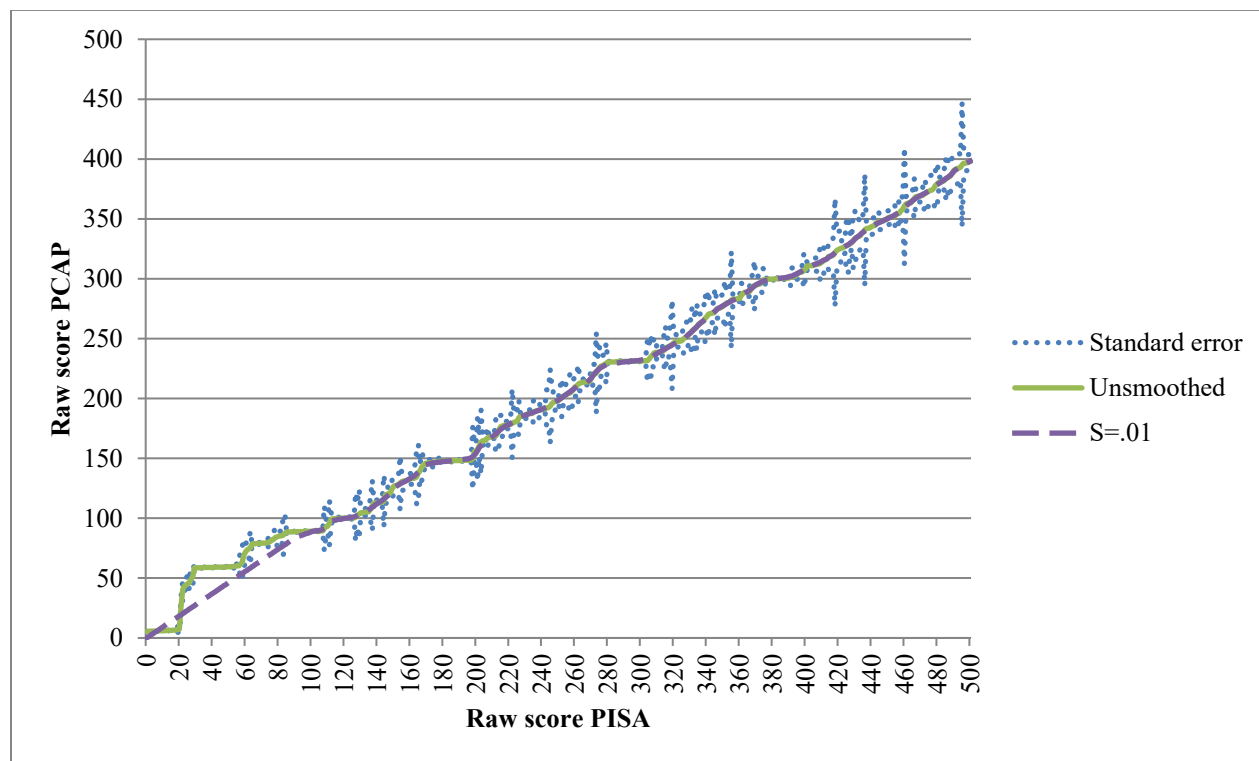


Figure 4.9. Raw-to-raw equivalents for post-smoothing  $S = .01$ .

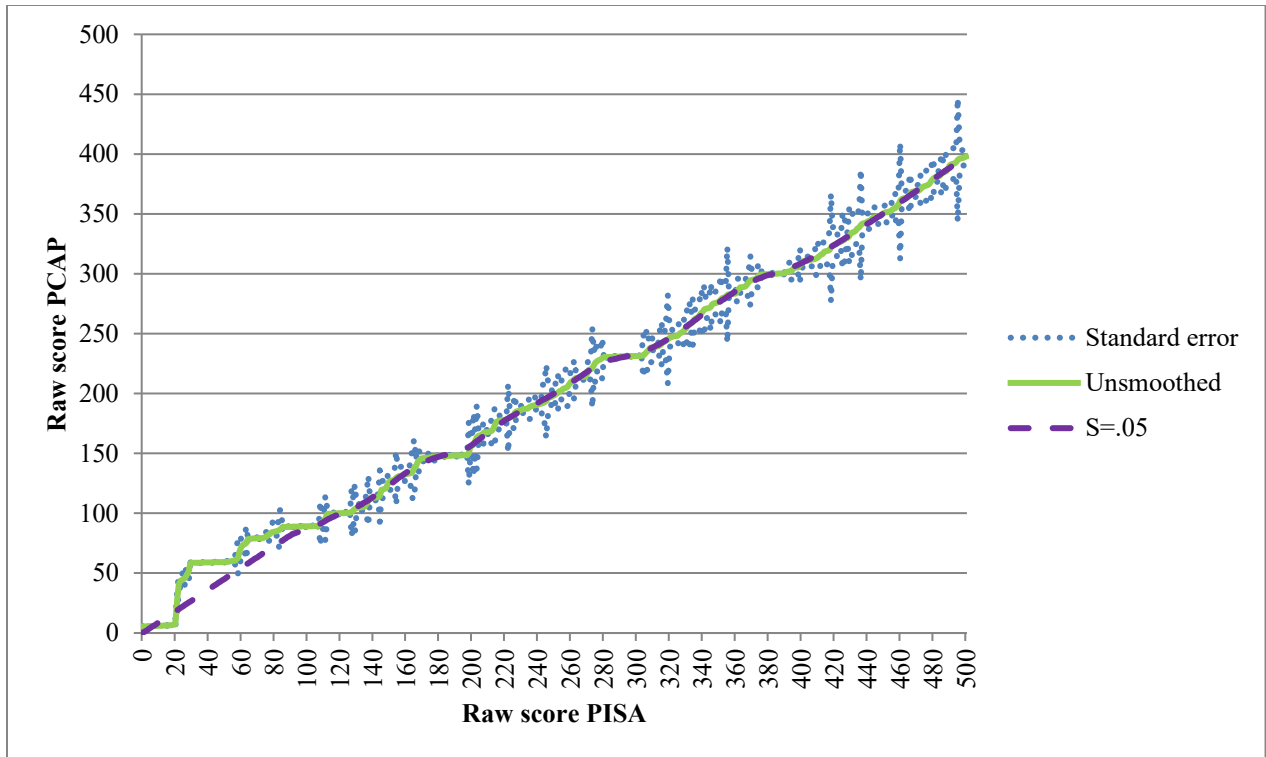


Figure 4.10. Raw-to-raw equivalents for post-smoothing  $S = .05$ .

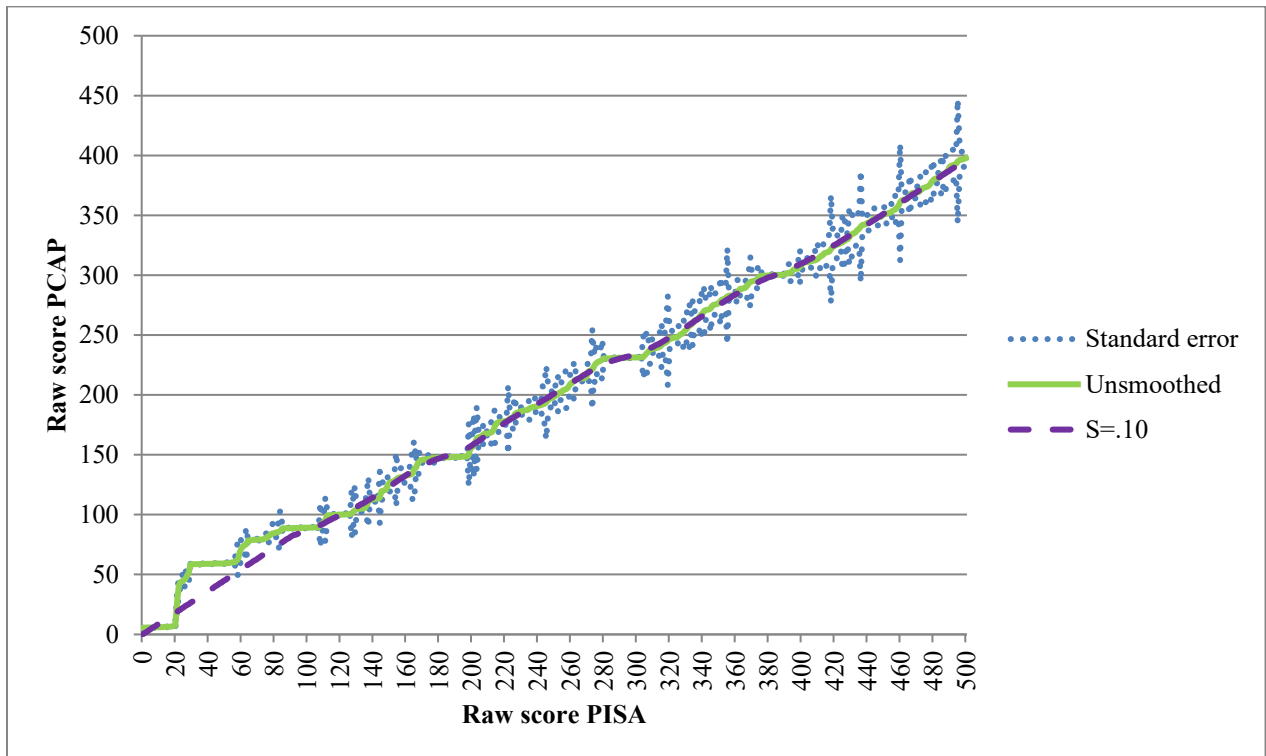


Figure 4.11. Raw-to-raw equivalents for post-smoothing  $S = .10$ .

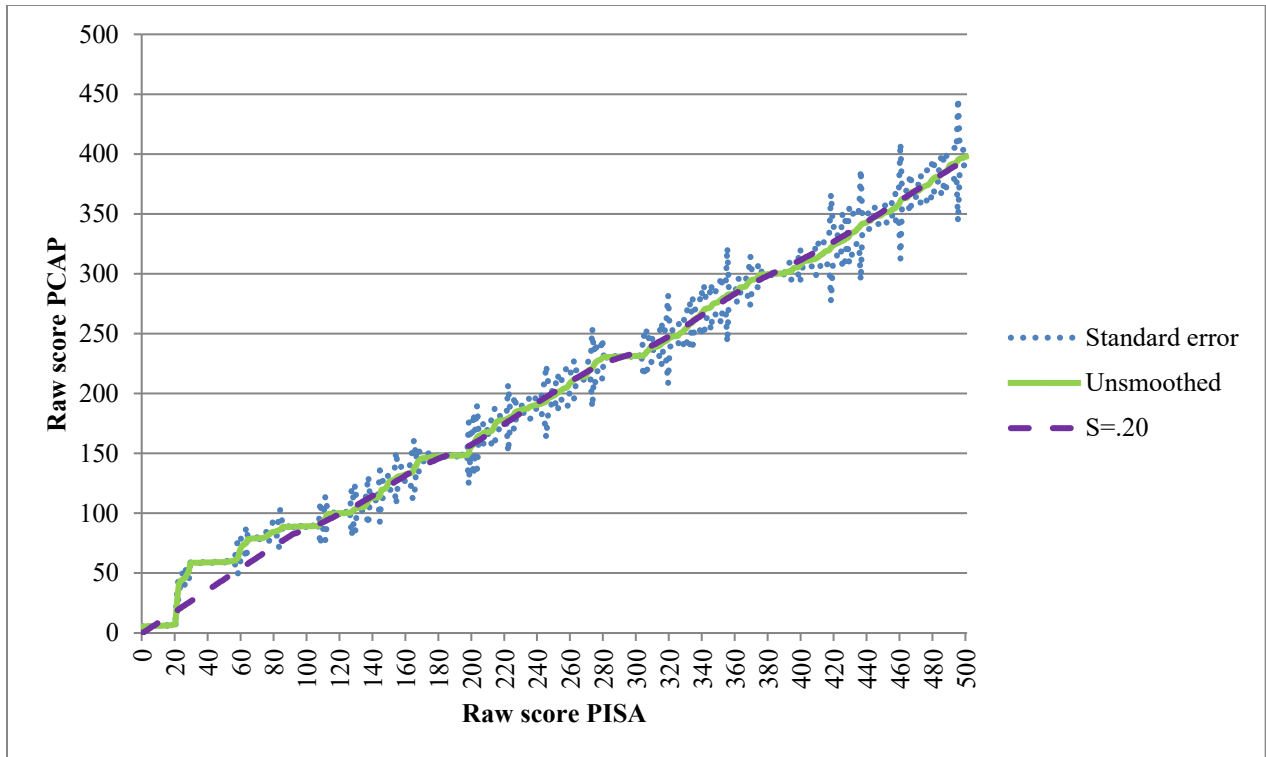


Figure 4.12. Raw-to-raw equivalents for post-smoothing  $S = .20$ .

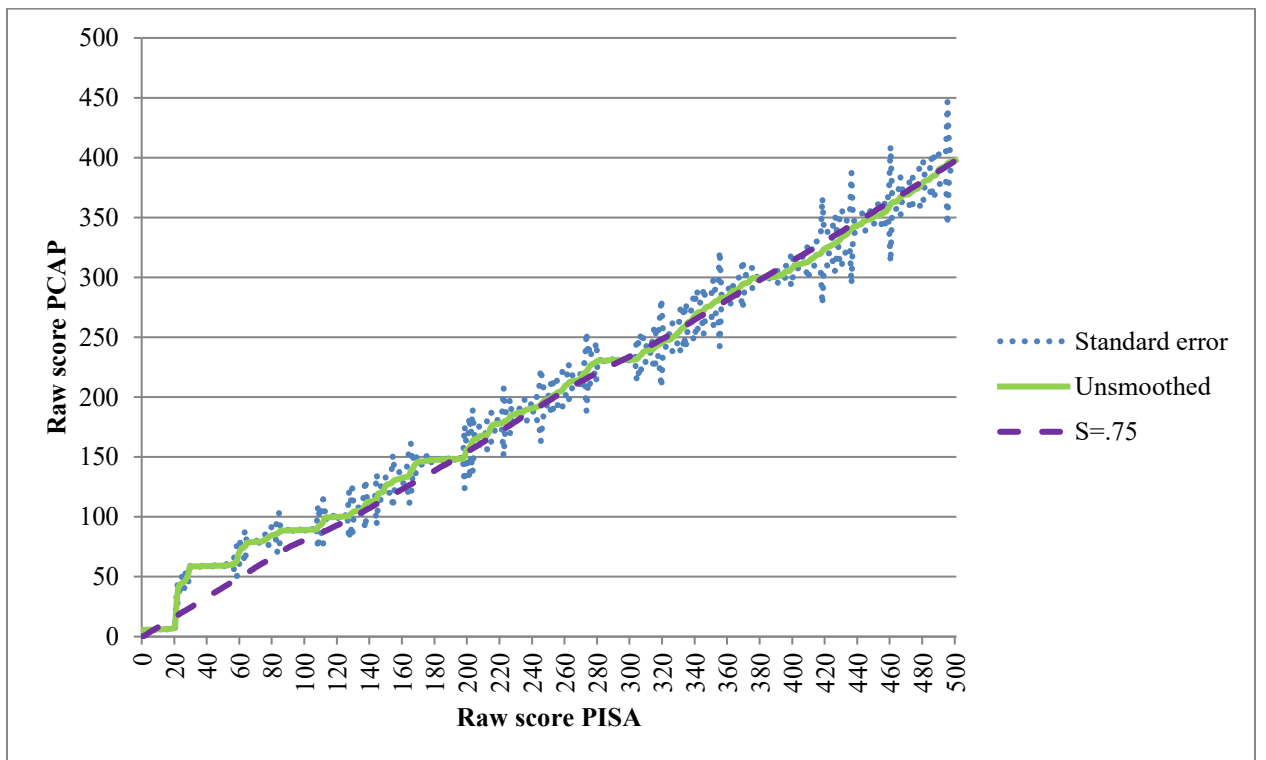


Figure 4.13. Raw-to-raw equivalents for post-smoothing  $S = .75$ .



From observing Figures 4.9 to Figure 4.13, as the smoothing parameter increases, it slowly deviated slightly away from the unsmooth line. Of the four smoothed lines,  $S = .01$  sat the most tightly on the unsmoothed line, except for the lower end of the scale where all the smoothed lines departed further away from the unsmoothed line and did not maintain within the standard error lines. When  $S = .75$ , the smoothed line did not stay within the standard error lines at many score points. It seems that  $S = .01$  or no smoothing at all is acceptable, especially at the lower score points. Next, the post-smoothing raw score moments (i.e., mean, standard error, skewness, and kurtosis) were compared in the following table. Although it is not meaningful in this context to look at the raw scores, their moments served the purpose of allowing comparisons when deciding on appropriate smoothing parameters.

Table 4.16.

*Raw score moments*

Test	Mean	SD	Skewness	Kurtosis
PCAP	1613.23	723.84	-0.01	2.32
PISA	1714.26	721.75	-0.00	2.44
PISA equated to PCAP scale				
Unsmoothed	1613.23	723.84	-0.01	2.32
$S = .01$	1613.34	724.36	-0.01	2.33
$S = .05$	1613.38	724.36	-0.01	2.33
$S = .10$	1613.39	724.36	-0.01	2.33
$S = .20$	1613.36	724.27	-0.01	2.32
$S = .30$	1613.33	724.22	-0.01	2.32
$S = .40$	1613.33*	724.19	-0.01*	2.32*
$S = .50$	1613.33	724.15	-0.01	2.32
$S = .75$	1613.34	724.07	-0.01	2.32
$S = 1.00$	1613.35	723.99*	-0.01	2.32

\* Indicates the closest moment to PCAP among the smoothed estimates

From observing the moments, it seemed that  $S = .40$  had the closest moments to PCAP in terms of mean, skewness, and kurtosis, while  $S = 1.00$  had the closest SD. This suggested that  $S = .40$  could be the better option for smoothing in this condition. Following the evaluation

strategies, the raw-to-scale score equivalents should be examined. Due to the large number of scores involved, the following tables present the conversion of 30 scale scores, with 10 scores each from the bottom, middle, and top of the PISA scores scale, at various smoothing parameters, the complete conversion tables can be found in Appendices I to L. Note that the “raw scores” of PISA were replaced with the actual PISA scaled scores to allow for easier references.

Table 4.17.

*Scale score conversion for post-smoothing (unrounded)*

PISA score	No Smooth	$S = .01$	$S = .05$	$S = .10$	$S = .20$	$S = .30$	$S = .40$	$S = .50$	$S = .75$	$S = 1.00$
195.40	221.01	195.22	195.17	195.16	195.16	195.11	195.07	195.03	194.97	194.92
200.50	221.13	199.95	199.81	199.79	199.78	199.64	199.51	199.40	199.20	199.05
212.20	221.25	210.08	209.55	209.48	209.45	208.90	208.40	208.00	207.25	206.67
214.80	221.37	214.14	213.97	213.96	213.94	213.77	213.62	213.49	213.26	213.08
215.20	221.49	215.07	215.04	215.03	215.03	215.00	214.97	214.94	214.90	214.86
219.80	221.61	217.96	217.50	217.45	217.42	216.94	216.51	216.16	215.51	215.18
222.10	221.73	221.02	220.74	220.71	220.69	220.41	220.16	219.95	219.34	218.75
222.40	221.85	222.24	222.20	222.19	222.19	222.15	222.11	221.92	221.48	221.14
225.40	221.97	223.55	223.09	223.03	223.00	222.52	222.37	222.33	222.27	222.22
226.40	222.09	225.71	225.54	225.52	225.51	225.18	224.70	224.31	223.57	223.02
508.90	498.44	498.43	498.50	498.55	498.55	498.54	498.53	498.53	498.51	498.47
509.00	498.63	498.55	498.61	498.66	498.65	498.64	498.64	498.63	498.61	498.58
509.10	498.73	498.67	498.72	498.77	498.76	498.75	498.74	498.74	498.72	498.68
509.30	498.77	498.78	498.83	498.87	498.86	498.85	498.85	498.84	498.82	498.79
509.40	498.83	498.89	498.95	498.98	498.97	498.96	498.95	498.95	498.93	498.89
509.50	498.93	499.02	499.11	499.18	499.15	499.12	499.11	499.10	499.06	499.00
509.60	499.16	499.28	499.34	499.39	499.36	499.33	499.32	499.31	499.27	499.20
509.70	499.53	499.48	499.48	499.50	499.49	499.47	499.47	499.46	499.44	499.41
509.80	499.67	499.61	499.59	499.61	499.59	499.58	499.57	499.56	499.54	499.51
509.90	499.78	499.73	499.70	499.72	499.70	499.68	499.68	499.67	499.65	499.61
777.50	735.45	767.79	767.72	767.84	765.95	763.54	763.43	763.24	762.78	762.49
777.60	735.51	769.07	769.01	769.12	768.33	767.75	767.31	767.05	766.71	766.06
784.60	735.53	771.19	771.17	771.20	770.04	769.19	768.94	768.80	768.63	768.51
788.50	735.57	772.83	772.80	772.85	772.11	771.28	771.21	771.17	771.11	770.94
789.20	735.85	776.07	775.84	776.22	773.64	773.21	772.99	772.93	772.84	772.78
794.70	736.01	777.44	777.42	777.46	777.18	777.07	777.04	777.03	777.01	777.00
795.50	736.13	784.61	784.31	784.72	781.03	778.27	777.59	777.58	777.57	777.56
798.70	737.60	790.00	789.82	790.11	789.05	788.85	788.75	788.70	788.63	788.58
803.30	738.86	796.42	796.36	796.46	795.71	795.42	795.35	795.31	795.27	795.24
828.40	740.83	814.07	813.91	814.17	812.23	810.81	810.11	809.73	809.23	808.90

Table 4.18.

*Scale score conversion for post-smoothing (rounded)*

PISA score	No Smooth	S = .01	S = .05	S = .10	S = .20	S = .30	S = .40	S = .50	S = .75	S = 1.00
195.40	221***	195	195	195	195	195	195	195	195	195
200.50	221***	199***	199	199	199***	199***	199***	199***	199***	199
212.20	221***	210***	209	209***	209***	208***	208***	208***	207***	206
214.80	221***	214***	214	214***	213***	213***	213***	213***	213***	213
215.20	221***	215***	215	215	215	215	215***	214	214	214
219.80	221***	218***	217	217***	217***	216***	216***	216***	215***	215
222.10	221***	221***	220	220	220***	220***	220***	220***	219***	218
222.40	221***	222	222	222	222***	222	222***	221***	221***	221
225.40	222***	223***	223***	223	223***	222***	222***	222	222***	222
226.40	222***	225***	225	225	225***	225***	224***	224***	223***	223
508.90	498	498***	498***	498***	498	498	498	498	498	498
509.00	498	498	498***	498	498***	498	498	498	498	498
509.10	498	498	498***	498	498***	498	498	498	498	498
509.30	498	498	498***	498	498	498***	498	498	498	498
509.40	498***	498	498***	499	499	499	499***	498	498	498
509.50	498***	499***	499***	499	499***	499	499	499	499***	499
509.60	499***	499	499***	499	499***	499	499	499	499***	499
509.70	499	499	499	499	499	499	499	499***	499	499
509.80	499***	499	499	499	499	499	499	499***	499	499
509.90	499***	499	499	499	499	499	499	499***	499	499
777.50	735***	767***	767***	767***	766***	763***	763***	763***	762***	762
777.60	735***	769***	769***	769***	768***	767***	767***	767***	766***	766
784.60	735***	771	771	771***	770***	769***	768***	768***	768***	768
788.50	735***	772	772***	772***	772***	771***	771	771***	771***	770
789.20	735***	776***	775***	776***	773***	773***	773***	772***	772	772
794.70	736***	777	777***	777***	777***	777***	777	777	777	777
795.50	736***	784***	784***	784***	781***	778***	777	777	777	777
798.70	737***	790***	789***	790***	789***	788***	788	788***	788	788
803.30	738***	796	796***	796***	795***	795	795***	795	795***	795
828.40	740***	814***	813***	814***	812***	810***	810***	809***	809***	808

\*\*\* Indicates different conversion obtained for adjacent methods

Table 4.19.

*Scale score moments – unrounded and rounded*

Test	Mean	SD	Skewness	Kurtosis
PCAP				
Unrounded	496.94	87.35	-0.08	2.56
Rounded	496.99	87.35	-0.08	2.56
PISA equated to PCAP scale				
Unsmoothed				
Unrounded	496.94	87.35	-0.08	2.56
Rounded	496.94	87.35	-0.08	2.56

$S = .01$				
Unrounded	496.96	87.63	-0.08	2.62
Rounded	496.96	87.63	-0.08	2.62
$S = .05$				
Unrounded	496.96	87.63	-0.08	2.62
Rounded	496.96	87.63	-0.08	2.62
$S = .10$				
Unrounded	496.96	87.64	-0.08	2.62
Rounded	496.96	87.63	-0.08	2.62
$S = .20$				
Unrounded	496.95	87.61	-0.08	2.62
Rounded	496.96	87.61	-0.08	2.62
$S = .30$				
Unrounded	496.94	87.60*	-0.08	2.62*
Rounded	496.94	87.60*	-0.08	2.62*
$S = .40$				
Unrounded	496.94*	87.60	-0.08	2.62
Rounded	496.93*	87.60	-0.08	2.62
$S = .50$				
Unrounded	496.93	87.61	-0.08*	2.62
Rounded	496.93	87.61	-0.08*	2.62
$S = .75$				
Unrounded	496.92	87.62	-0.08	2.63
Rounded	496.92	87.62	-0.08	2.63
$S = 1.00$				
Unrounded	496.92	87.62	-0.09	2.63
Rounded	496.92	87.62	-0.09	2.63

\* Indicates the closest moment to unrounded PCAP among the smoothed estimates

The results from the scale score moments demonstrated that depending on the moments being compared, different smoothing parameters would be optimal. For means,  $S = .40$  was the closest to PCAP, for SD and kurtosis,  $S = .30$  was the closest, and for skewness,  $S = .50$  was the closest to PCAP. Of the three steps of comparing smoothing parameters, it seemed  $S = .40$  was the most agreed upon parameter. This parameter was then applied to the linking of English and French for language comparisons.

**Language comparisons – means and correlations.** The language groups were also linked separately using the equipercntile method, in which the post-smoothing parameter used was based on the results from the previous section. The following table presents the means and SD of the total group, and for each language group with smoothing parameter of  $S = .40$ .

Table 4.20

*Mean and Standard Error by Group*

Group	Mean	SD	N
Total group	496.94	87.60	21544
English	490.32	85.17	16142
French	520.08	75.37	5402

Comparisons of means revealed that there was significant difference between the English and the French group ( $t = 24.29, p < .05$ ). For the language groups and the total group, both language comparisons of means were statistically significant:  $t = 7.37, p < .05$  for English; and  $t = 19.50, p < .05$  for French. In terms of correlations, Pearson correlations were obtained for the English group and the French group, between the scores obtained from the total linking, and the scores of separate group linking. It was found that the correlations were rounded perfect ( $r = 1.00$ ) for both languages, with  $r(3209) = 1.00, p < .01$  for English, and  $r(2243) = 1.00, p < .01$  for French.

**Graphical comparisons.** Graphs comparing the original PISA scores and the PCAP score conversions were plotted for the total group, and for each language group. The differences in concordance PCAP scores were also plotted between the scores of the language group and the total group. The following figures showed the two graphs.

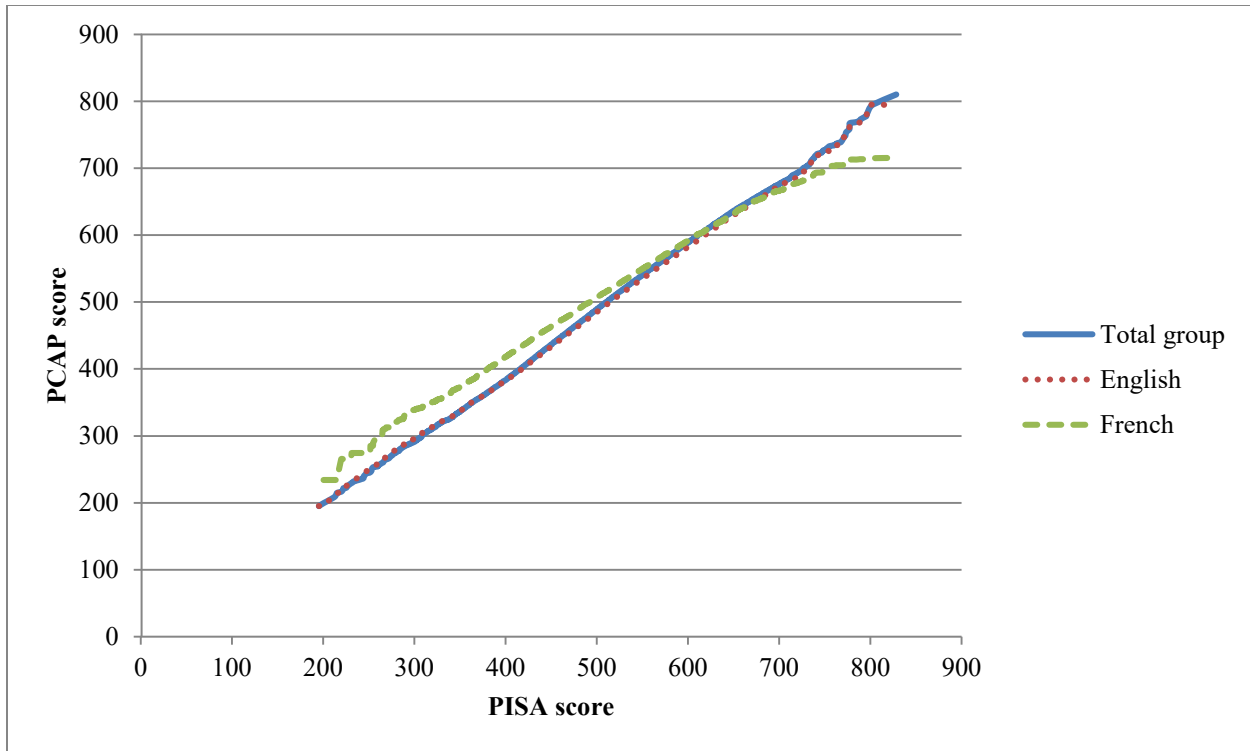


Figure 4.14. Concordance scores for English, French, and total group.

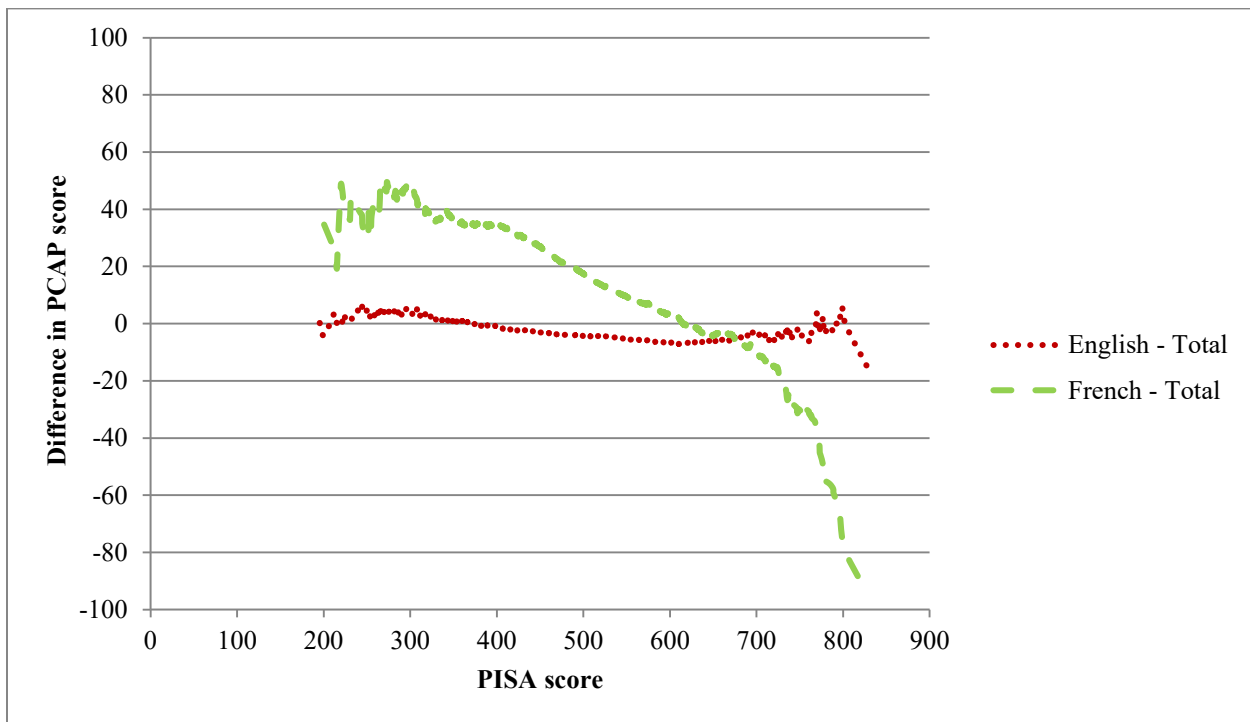


Figure 4.15. Differences in scores between language groups and total group.

Figure 4.14 demonstrated that in this condition of Mathematics as major domains, the concordance score of the French group tended to deviate from the total group more, while the English group aligned closely with the total group. The deviation of the French group is greater at the lower and the higher end of PISA score scale, as demonstrated in Figure 4.15. The French group had higher scores than the total group from the bottom of PISA scale to until score of 610, while the English group tended to have lower scores than the total group in majority of the score points except for the lower and higher end of the scale. The range of the differences were also greater in the French group than the English group, which the French group had a maximum difference of 15.42 PCAP score, and the French group had a maximum difference of -94.73 PCAP score, suggesting population invariance for the language group did not hold, especially for the French group. Next, the REMSDs were calculated to further inspect the case of population invariance.

**REMSD.** The calculation of REMSD involved the total group scores and the language group scores at the selected smoothing parameter of  $S = .40$ . The REMSD for the English subgroup was 0.14 and the REMSD for the French subgroup was 0.21. To evaluate the REMSD for both language subgroups, the standardized DTM was calculated. With SD of the entire group was 87.60, the standardized DTM was calculated as  $.5/87.60 = 0.01$ . The REMSD for both language groups were above the DTM, indicated that population invariance did not hold for both the English and the French groups in this condition.

**Mathematics as major and minor domains.** In this condition, PISA 2012 score data are scaled to the PCAP 2013 scale. In total, there were 3,426 unique score points, rounded to one decimal place from PISA dataset. Post-smoothing results were first compared.

*Post-smoothing parameters.* First, the raw-to-raw equivalents were graphed and compared with the standard errors at the first four  $S$  parameters ( $S = .01$ ,  $S = .05$ ,  $S = .10$ ,  $S = .20$ ), and  $S = .75$ . Due to the large number of score points, graphing all the scores would cause the graph to be more difficult to inspect, therefore, only the first 500 score points were graphed.

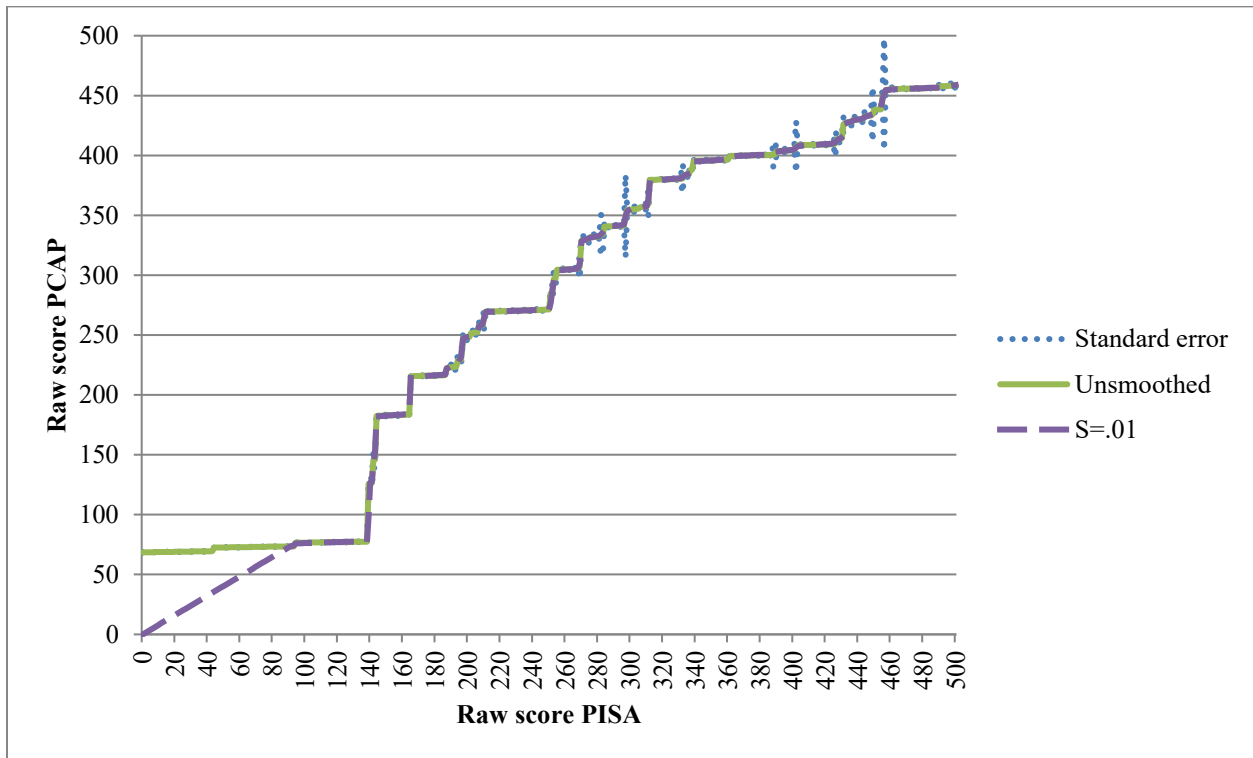


Figure 4.16. Raw-to-raw equivalents for post-smoothing  $S = .01$ .



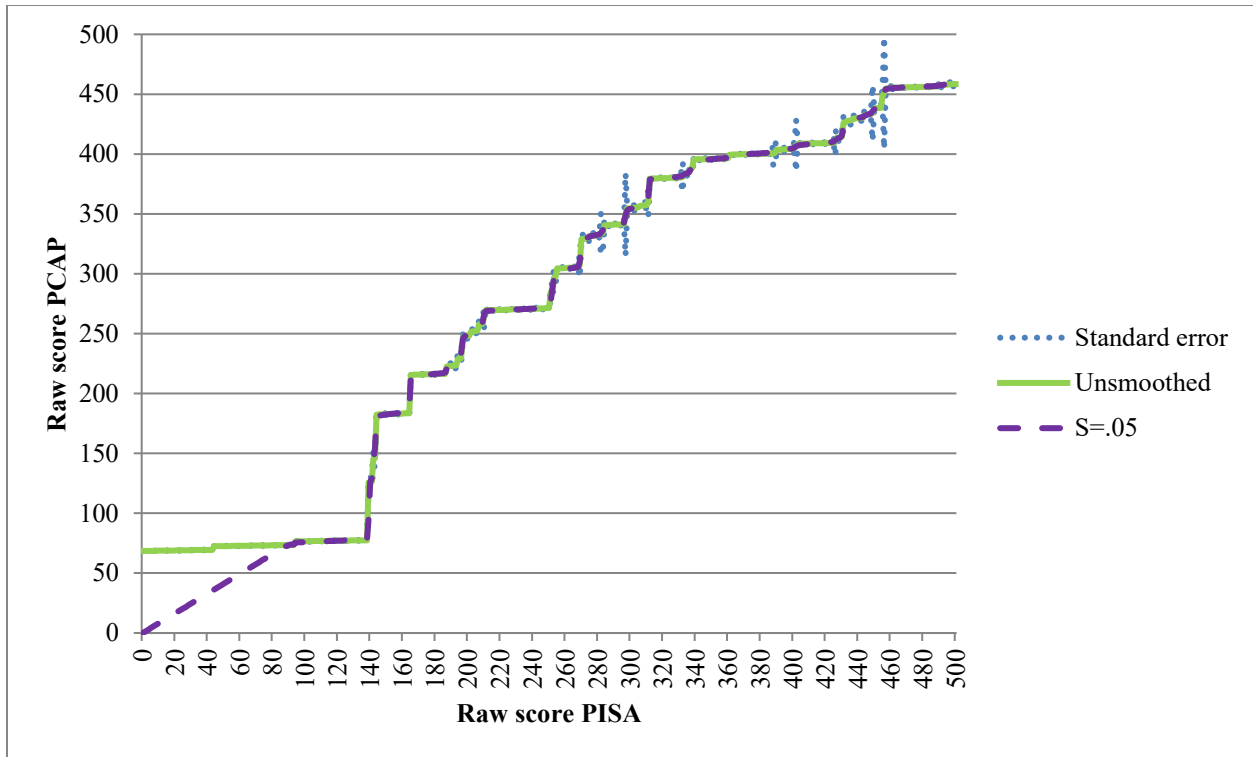


Figure 4.17. Raw-to-raw equivalents for post-smoothing  $S = .05$ .

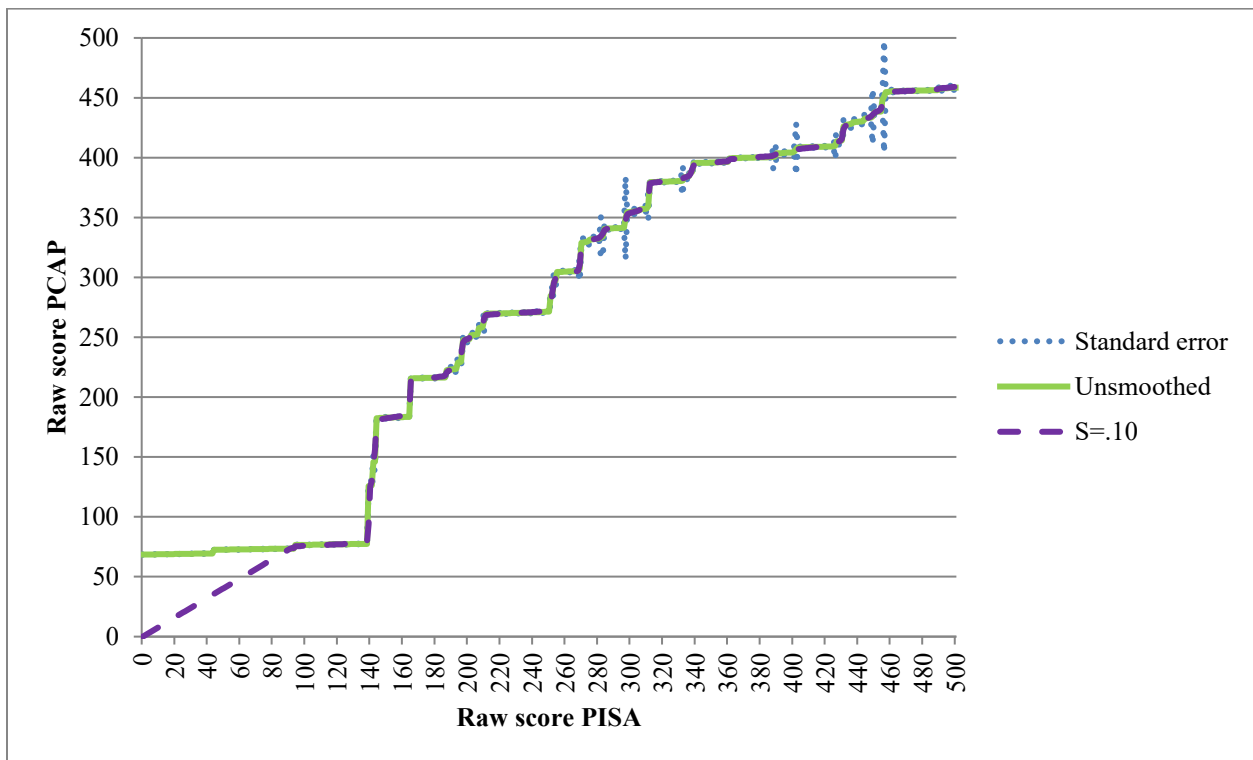


Figure 4.18. Raw-to-raw equivalents for post-smoothing  $S = .10$ .

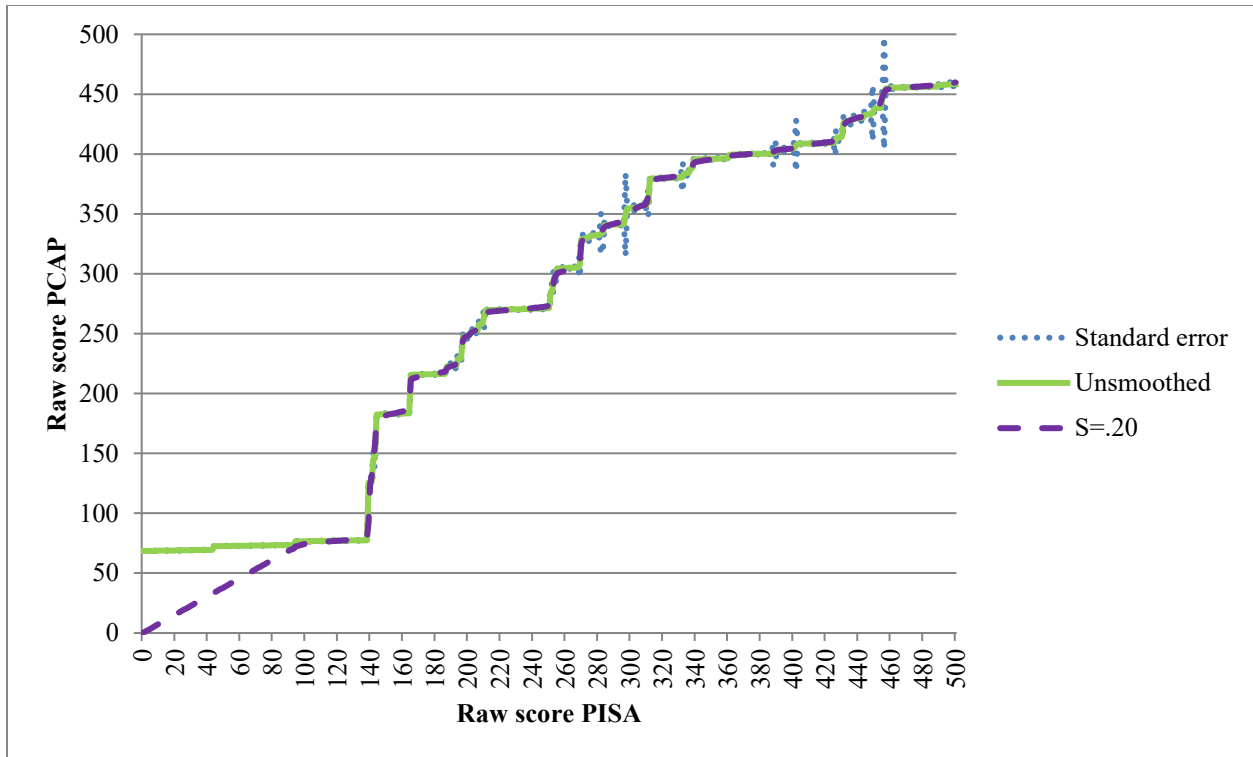


Figure 4.19. Raw-to-raw equivalents for post-smoothing  $S = .20$ .

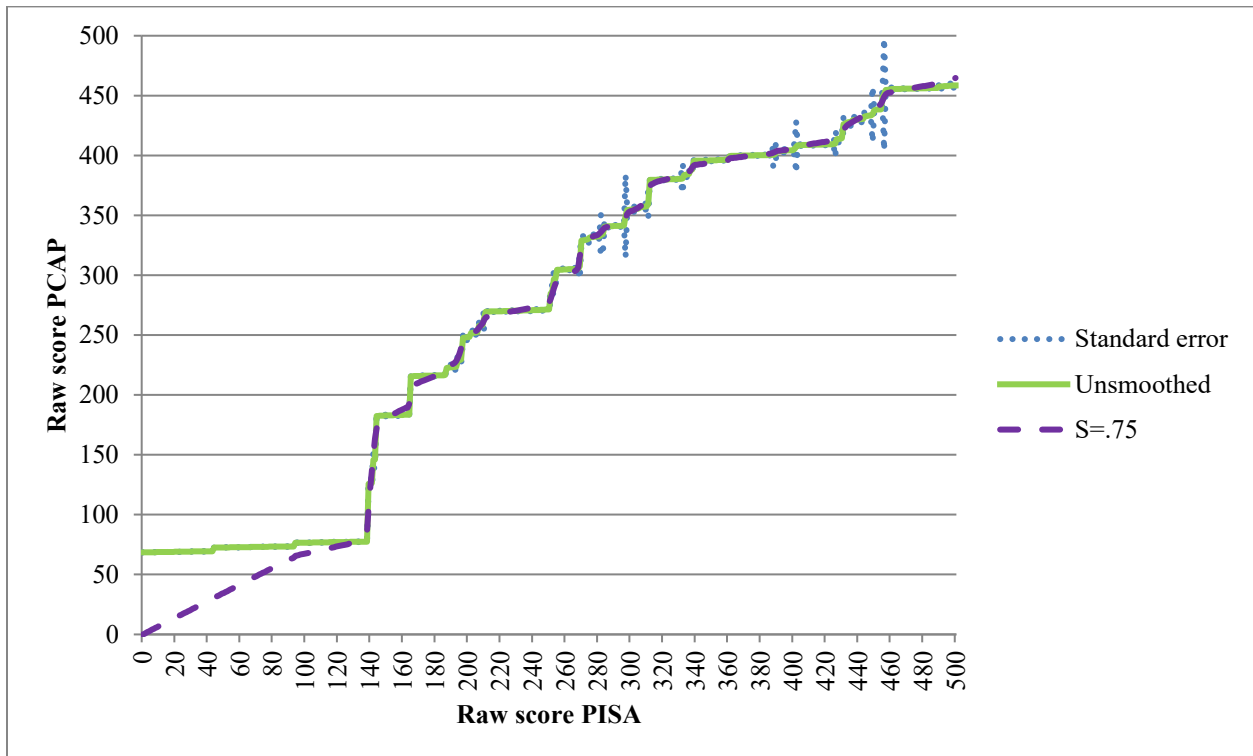


Figure 4.20. Raw-to-raw equivalents for post-smoothing  $S = .75$ .

Based on these figures, for all smoothing parameters, the smoothed lines had a lot of deviation from the unsmoothed lines at the lower score points. When  $S$  is equal or less than .20, the smoothed line still appeared bumpy. When  $S = .75$ , the line appeared more smooth, therefore it was necessary to inspect the graphs when  $S$  were between .20 and .75 to determine the most appropriate smoothing degree.

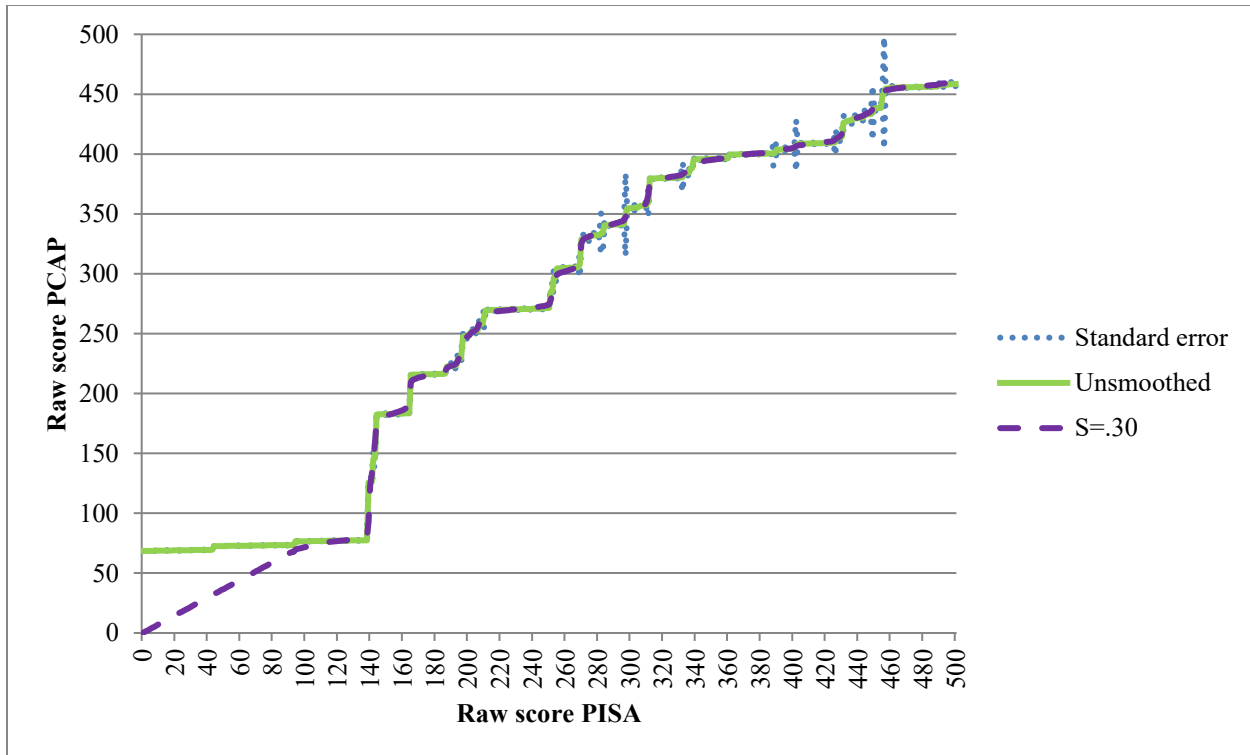


Figure 4.21. Raw-to-raw equivalents for post-smoothing  $S = .30$ .

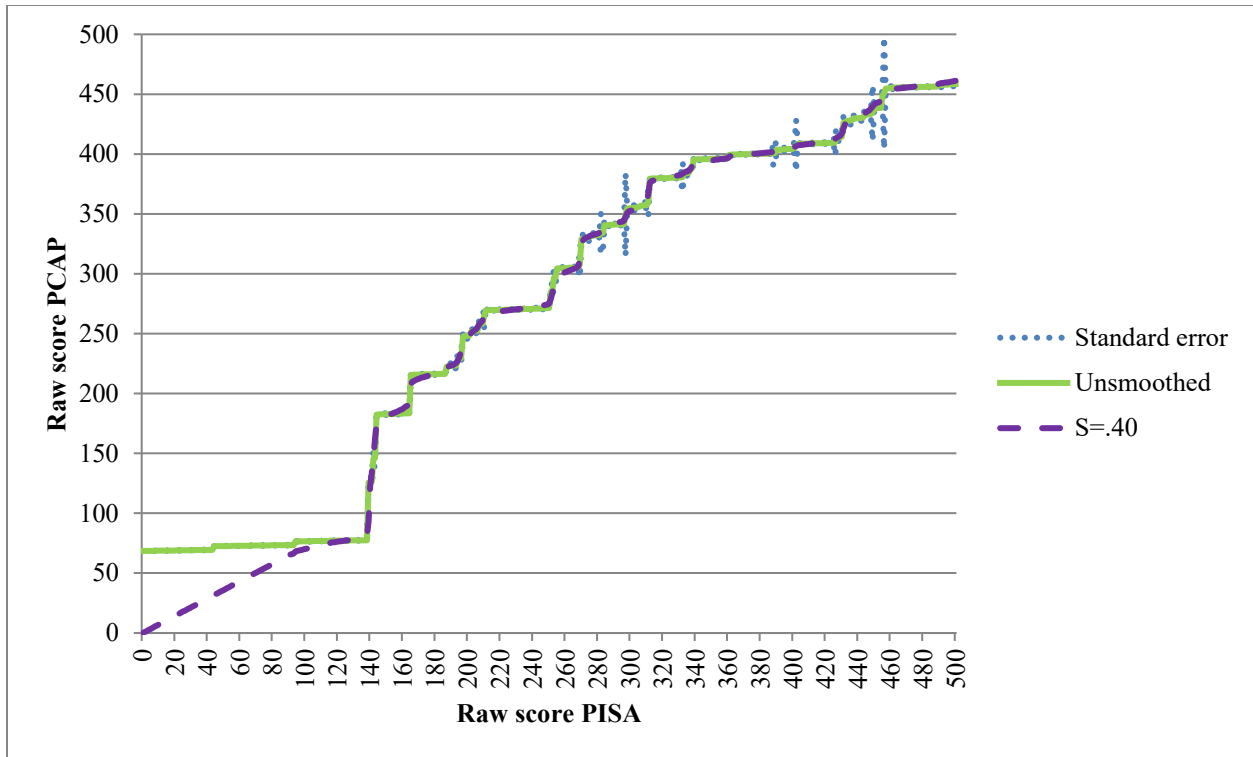


Figure 4.22. Raw-to-raw equivalents for post-smoothing  $S = .40$ .

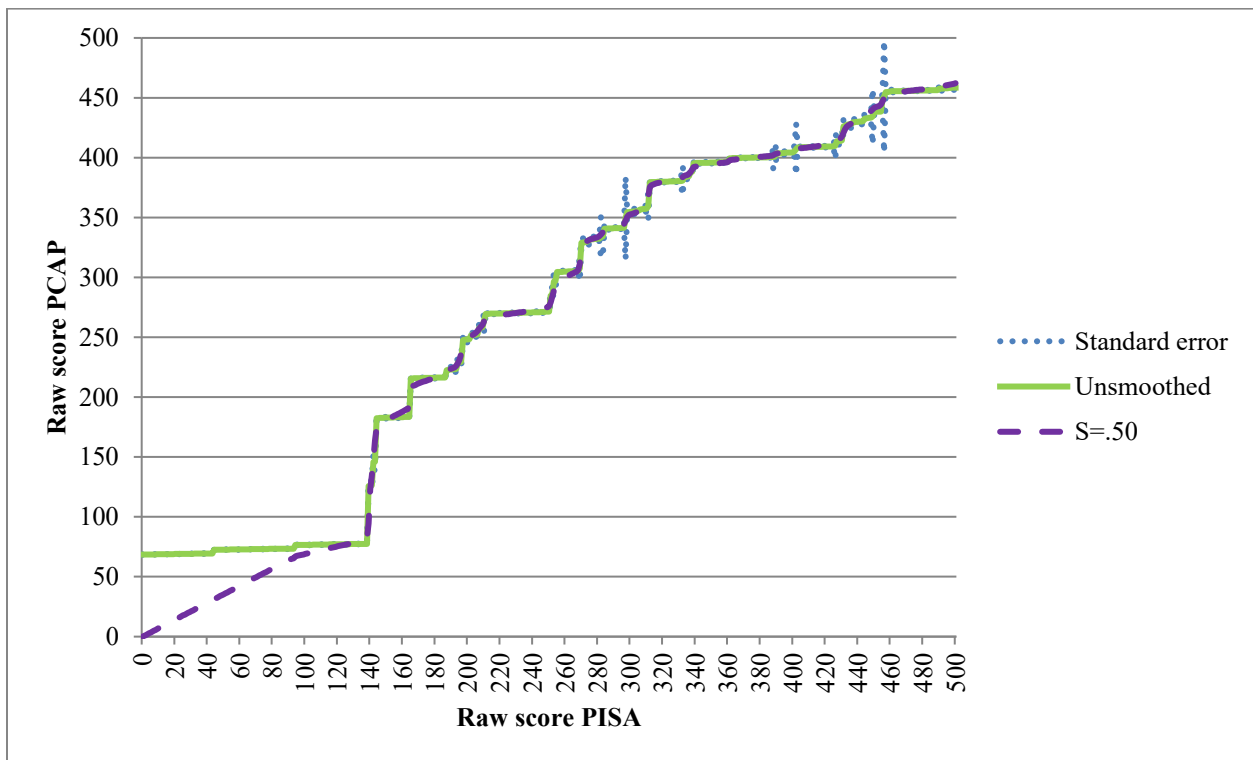


Figure 4.23. Raw-to-raw equivalents for post-smoothing  $S = .50$ .

It seemed that when  $S = .40$  and  $.50$ , the line appeared slightly more smooth, while  $S = .40$  deviated lesser with the unsmoothed line, and that it stayed closer to the standard error lines than  $S = .50$ , therefore  $S = .40$  seemed to be the more appropriate parameter. Next, the raw score moments were compared.

Table 4.21.

*Raw score moments*

Test	Mean	SD	Skewness	Kurtosis
PCAP	1644.89	678.17	-0.17	2.18
PISA	1718.25	721.61	-0.01	2.44
PISA equated to PCAP scale				
Unsmoothed	1644.89	678.17	-0.17	2.18
$S = .01$	1645.89*	681.21*	-0.15*	2.24*
$S = .05$	1646.05	681.52	-0.15	2.24
$S = .10$	1646.14	681.74	-0.15	2.24
$S = .20$	1646.19	681.95	-0.15	2.25
$S = .30$	1646.20	682.03	-0.14	2.25
$S = .40$	1646.21	682.07	-0.14	2.25
$S = .50$	1646.22	682.10	-0.14	2.25
$S = .75$	1646.26	682.13	-0.14	2.25
$S = 1.00$	1646.30	682.14	-0.14	2.25

\* Indicates the closest moment to PCAP among the smoothed estimates

From observing the moments, it showed that  $S = .01$  had the closest moments to PCAP in comparisons with the other smoothing parameters. Further, the scale score conversion tables are presented and the moments are examined below to provide a clearer picture.

Table 4.22.

*Scale score conversion for post-smoothing (unrounded)*

PISA score	No Smooth	$S = .01$	$S = .05$	$S = .10$	$S = .20$	$S = .30$	$S = .40$	$S = .50$	$S = .75$	$S = 1.00$
195.40	279.07	194.92	194.96	194.92	194.80	194.74	194.69	194.67	194.63	194.61
200.50	279.11	199.05	199.17	199.05	198.71	198.51	198.38	198.30	198.18	198.13
212.20	279.14	206.67	207.10	206.66	205.36	204.58	204.10	203.78	203.33	203.14
214.80	279.18	213.08	213.21	213.08	212.67	212.43	212.28	212.11	211.48	211.22
215.20	279.22	214.86	214.89	214.86	214.67	214.35	214.16	214.03	213.85	213.78
219.80	279.25	215.18	215.39	215.18	215.09	215.03	214.99	214.97	214.93	214.92
222.10	279.29	218.75	219.18	218.73	217.41	216.61	216.12	215.79	215.33	215.20

222.40	279.33	221.14	221.39	221.13	220.37	219.91	219.45	219.07	218.54	218.32
225.40	279.37	222.22	222.26	222.22	222.10	221.61	221.29	221.07	220.77	220.65
226.40	279.40	223.01	223.43	223.00	222.33	222.26	222.21	222.18	222.14	222.12
508.20	505.48	505.46	505.45	505.44	505.42	505.41	505.40	505.38	505.30	505.23
508.30	505.49	505.49	505.48	505.47	505.47	505.46	505.46	505.45	505.43	505.40
508.50	505.51	505.51	505.51	505.51	505.51	505.51	505.51	505.51	505.50	505.48
508.60	505.52	505.53	505.53	505.54	505.55	505.56	505.56	505.57	505.57	505.56
508.70	505.53	505.56	505.57	505.58	505.60	505.62	505.63	505.64	505.66	505.66
508.80	505.67	505.65	505.66	505.67	505.70	505.72	505.74	505.75	505.78	505.78
508.90	505.78	505.79	505.79	505.80	505.83	505.85	505.86	505.88	505.91	505.92
509.00	505.95	505.99	506.02	505.99	505.98	505.99	506.02	506.06	506.13	506.15
509.10	506.57	506.49	506.46	506.41	506.30	506.30	506.33	506.37	506.42	506.43
509.30	506.67	506.64	506.61	506.57	506.51	506.50	506.51	506.53	506.57	506.59
777.50	665.55	751.71	753.76	754.33	754.87	755.74	756.22	756.53	756.97	757.18
777.60	665.55	754.39	759.26	760.55	760.97	761.38	761.60	761.74	761.95	762.04
784.60	665.55	761.12	762.19	763.04	763.47	763.52	763.54	763.56	763.58	763.59
788.50	665.55	763.57	766.87	767.57	767.96	768.08	768.15	768.19	768.25	768.28
789.20	665.55	768.49	769.17	769.57	770.32	770.60	770.75	770.85	771.00	771.06
794.70	665.55	771.26	772.26	772.69	772.84	772.90	772.93	772.95	772.98	772.99
795.50	665.55	774.67	777.00	777.04	777.07	777.08	777.09	777.09	777.10	777.10
798.70	665.55	777.58	779.68	781.56	783.05	783.61	783.91	784.11	784.39	784.52
803.30	665.55	790.68	792.38	793.27	793.97	794.23	794.38	794.47	794.60	794.66
828.40	665.55	802.18	802.65	802.90	803.10	803.17	803.21	803.24	803.27	803.29

Table 4.23.

*Scale score conversion for post-smoothing (rounded)*

PISA score	No Smooth	S = .01	S = .05	S = .10	S = .20	S = .30	S = .40	S = .50	S = .75	S = 1.00
195.40	279***	195	195	195	195	195	195	195	195	195
200.50	279***	199***	199***	199***	198***	198***	198***	198***	198***	198
212.20	279***	206***	207***	206***	205***	204***	204***	203***	203***	203
214.80	279***	213***	213***	213***	212***	212***	212***	212***	211***	211
215.20	279***	214	214	214***	214***	214***	214***	214***	213***	213
219.80	279***	215***	215***	215***	215***	215	215	215***	214	214
222.10	279***	218***	219***	218***	217***	216***	216***	215***	215***	215
222.40	279***	221***	221***	221***	220***	219***	219***	219***	218***	218
225.40	279***	222***	222***	222***	222***	221***	221***	221***	220***	220
226.40	279***	223***	223***	223***	222	222***	222	222***	222	222
508.20	505	505	505***	505	505	505	505	505***	505***	505
508.30	505	505	505	505	505	505	505	505***	505	505
508.50	505	505	505	505	505	505	505	505	505	505
508.60	505	505	505	505	505***	505	505	505	505	505
508.70	505***	505	505	505	505	505	505	505***	505	505
508.80	505***	505***	505	505	505	505	505***	505	505	505
508.90	505	505	505	505	505	505***	505	505	505	505
509.00	505***	506	506	506	506	506	506***	506	506	506
509.10	506***	506	506***	506***	506	506	506***	506	506	506

509.30	506***	506	506	506***	506	506	506	506***	506	506
777.50	665***	751***	753***	754***	754***	755***	756***	756***	757***	757
777.60	665***	754***	759***	760***	761***	761***	761***	761***	761***	762
784.60	665***	761***	762***	763***	763	763	763***	763	763	763
788.50	665***	763***	766***	767***	768***	768	768***	768***	768	768
789.20	665***	768***	769***	769***	770***	770***	770***	770***	771***	771
794.70	665***	771***	772***	772***	772***	772	772	772***	773	773
795.50	665***	774***	777	777***	777	777	777	777	777	777
798.70	665***	777***	779***	781***	783***	783***	783***	784***	784***	784
803.30	665***	790***	792***	793***	794***	794***	794***	794***	794***	794
828.40	665***	802***	802***	802***	803***	803	803	803***	803	803

\*\*\* Indicates different conversion obtained for adjacent methods

Table 4.24.

*Scale score moments – unrounded and rounded*

Test	Mean	SD	Skewness	Kurtosis
PCAP				
Unrounded	500.29	81.01	-0.24	2.37
Rounded	500.33	81.01	-0.24	2.37
PISA equated to PCAP scale				
Unsmoothed				
Unrounded	500.29	81.01	-0.24	2.37
Rounded	500.29	81.01	-0.24	2.37
$S = .01$				
Unrounded	500.38*	81.93*	-0.22*	2.59*
Rounded	500.38*	81.93*	-0.22*	2.59*
$S = .05$				
Unrounded	500.41	81.98	-0.22	2.59
Rounded	500.41	81.98	-0.22	2.59
$S = .10$				
Unrounded	500.42	82.03	-0.22	2.60
Rounded	500.43	82.03	-0.21	2.60
$S = .20$				
Unrounded	500.43	82.09	-0.22	2.61
Rounded	500.43	82.09	-0.22	2.61
$S = .30$				
Unrounded	500.42	82.11	-0.22	2.62
Rounded	500.42	82.11	-0.22	2.62
$S = .40$				
Unrounded	500.42	82.13	-0.22	2.63
Rounded	500.42	82.13	-0.22	2.63
$S = .50$				
Unrounded	500.42	82.15	-0.22	2.62
Rounded	500.42	82.15	-0.22	2.63
$S = .75$				
Unrounded	500.42	82.16	-0.22	2.63
Rounded	500.42	82.16	-0.22	2.63
$S = 1.00$				

Unrounded	500.43	82.17	-0.22	2.64
Rounded	500.43	82.17	-0.22	2.64

\* Indicates the closest moment to unrounded PCAP among the smoothed estimates

These results demonstrated that when  $S = .01$ , all the moments for unrounded and rounded scores are the closest to PCAP unrounded scores. This is in agreement with the raw score moments but not exactly in agreement to the subjective judgment from the plots of raw scores. Since two of the three steps suggested  $S = .01$ , this smoothing parameter was chosen for this condition when mathematics was the major and minor domains.

*Language comparisons – means and correlations.* Applying the parameter chose from the previous analysis, the language group results were also compared. The following table presents the means and SD of the total group, and for each language group with smoothing parameter of  $S = .01$ .

Table 4.25.

*Mean and standard error by group*

Group	Mean	SD	N
Total group	500.38	81.93	21544
English	494.62	81.18	16142
French	518.81	73.91	5402

Comparisons of means revealed that there was significant difference between the English and the French group ( $t = 20.30, p < .05$ ). Between the language groups and the total group, both language comparisons of means were statistically significant:  $t = 6.79, p < .05$  for English; and  $t = 16.02, p < .05$  for French. Pearson correlations for the English group and the French group between the scores obtained from the total linking, and the scores of separate language group linking demonstrated that, similar to the condition when mathematics was the major domains, in



this condition, the correlations were also rounded to perfect ( $r = 1.00$ ) for both languages, with  $r(3209) = 1.00, p < .01$  for English, and  $r(2246) = 1.00, p < .01$  for French.

**Graphical comparisons.** The following figures displayed the two graphs for (a) comparing the original PISA scores and the PCAP score of concordance plotted for the total group, and for each language group; and (b) the differences in concordance PCAP scores between the scores of the language group and the total group.

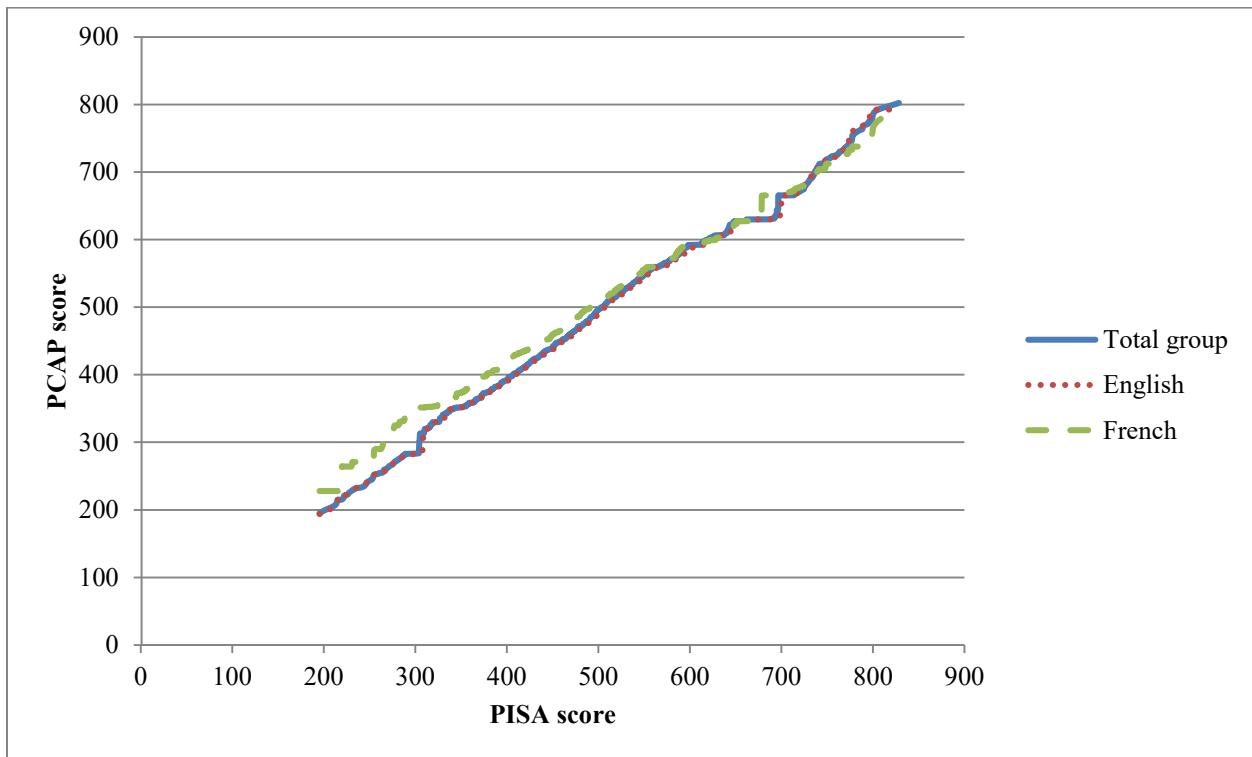


Figure 4.24. Concordance scores for English, French, and total group.

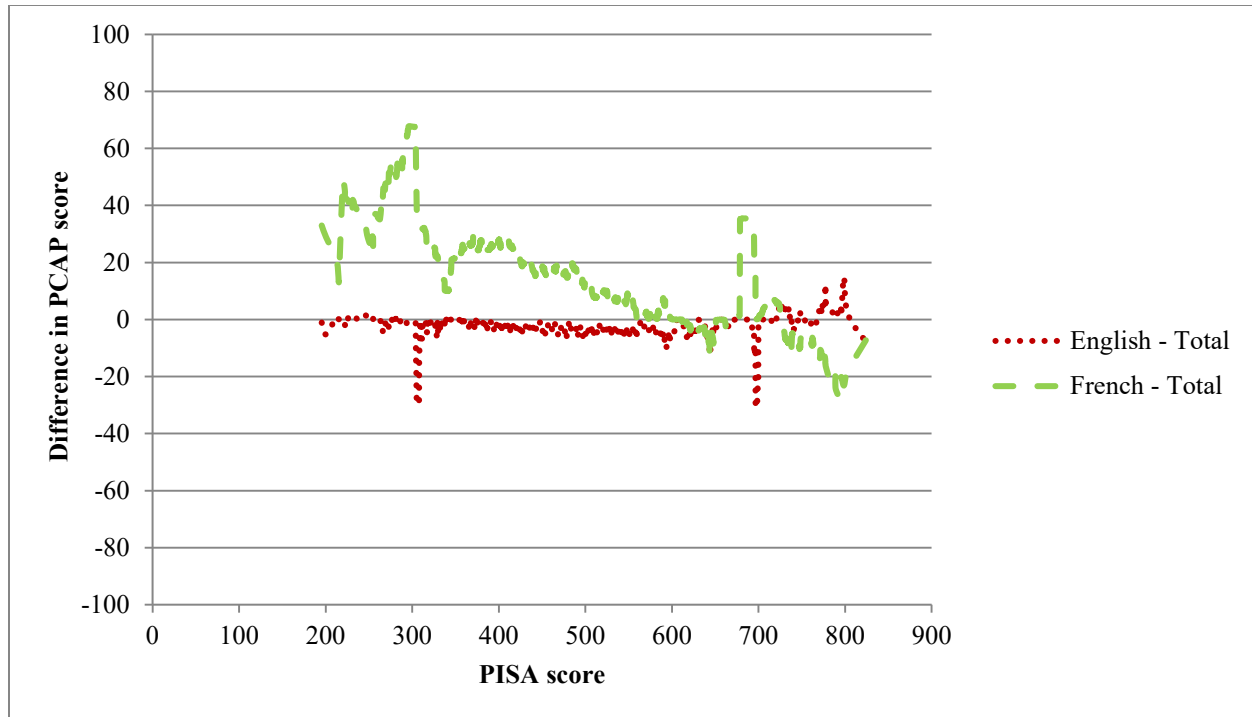


Figure 4.25. Differences in scores between language groups and total group.

Figure 4.24 above demonstrated that in this condition of Mathematics as major and minor domains, similar to the other mathematics condition, the concordance score of the French group tended to deviate from the total group more than the English group, while the English group aligned closely with the total group. The deviation of the French group is greater at the lower and end of PISA score scale, as demonstrated in Figure 4.25. The French group also scored higher than the total group from the bottom of PISA scale to around score of 720, while the English group was more likely to be below the total group scores. The range of the differences were greater in the French group than in the English group, in which the French group had a maximum difference of -30.85 PCAP score and the French group had a maximum difference of 67.84 PCAP score, suggesting population invariance for the language group did not hold, especially for the French group. Next, the REMSDs were calculated.

**REMSD.** The calculation of REMSD involved the total group scores and the language group scores at the selected smoothing parameter of  $S = .01$ . The REMSD for the English subgroup was 0.13 and the REMSD for the French subgroup was 0.17. To evaluate the REMSD for both language subgroups, the standardized DTM was calculated. With SD of the entire group at 81.93, the standardized DTM was calculated as  $.5/81.93 = 0.01$ . The REMSD for both language groups were above the DTM, indicated that population invariance did not hold for both the English and the French groups in this condition.

**Science as major domains.** In this condition, PISA 2015 score data are scaled to the PCAP 2013 scale. In total, there were 4,126 unique score points, rounded to one decimal place from PISA dataset. Post-smoothing results were first compared.

**Post-smoothing parameters.** First, the raw-to-raw equivalents were graphed and compared with the standard errors at the first four  $S$  parameters ( $S = .01$ ,  $S = .05$ ,  $S = .10$ ,  $S = .20$ ), and  $S = .75$ . Due to the large number of score points, graphing all the scores would cause the graph to be more difficult to inspect, therefore, only the first 500 score points were graphed.

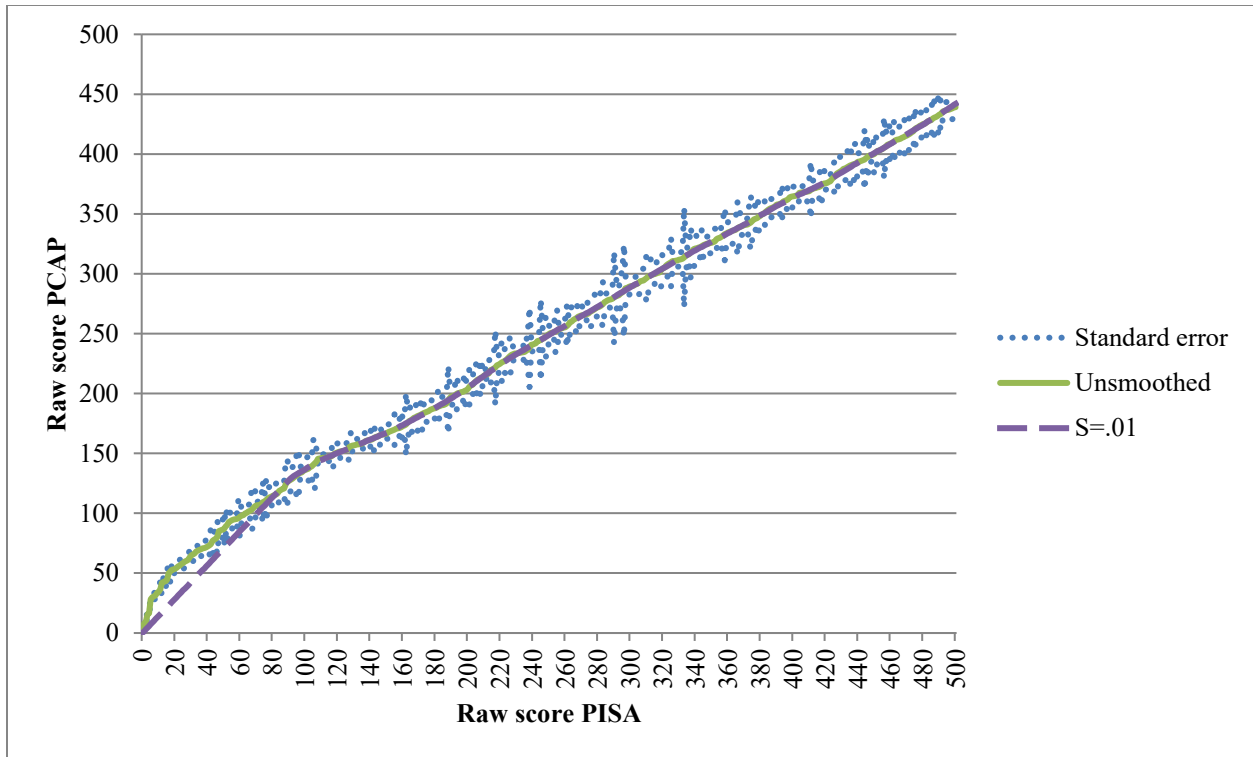


Figure 4.26. Raw-to-raw equivalents for post-smoothing  $S = .01$ .

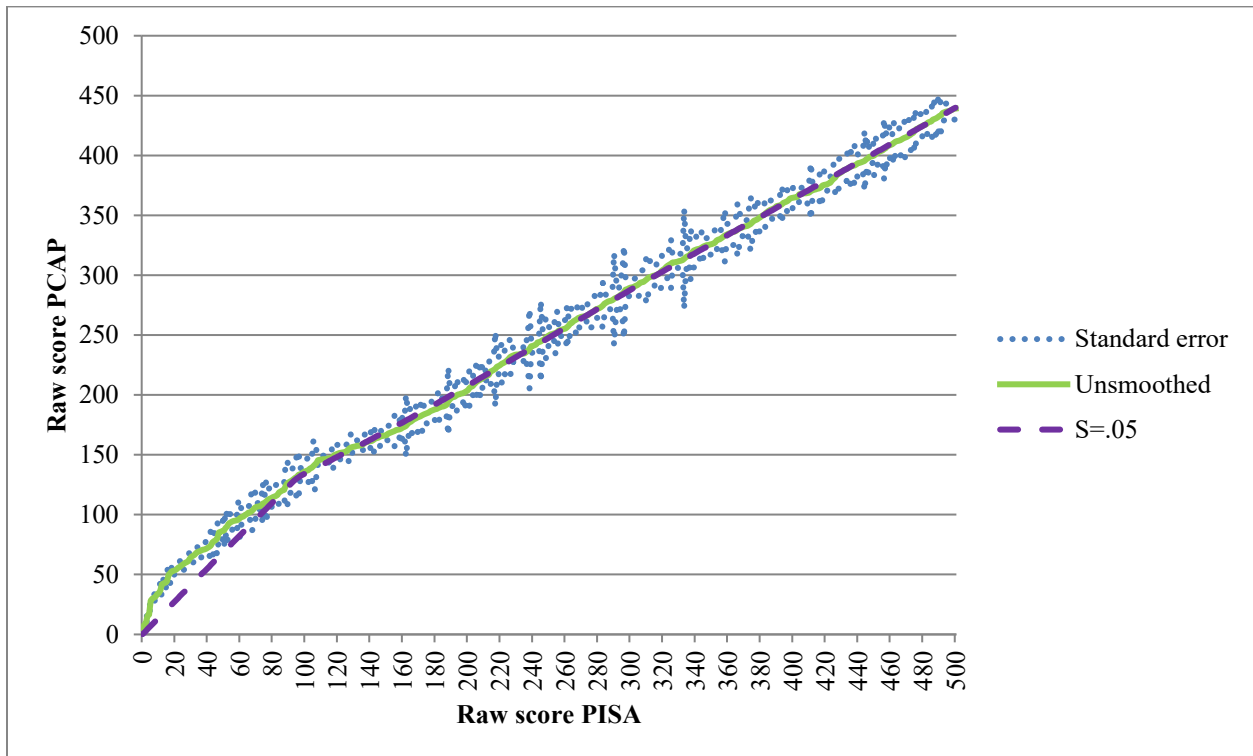


Figure 4.27. Raw-to-raw equivalents for post-smoothing  $S = .05$ .

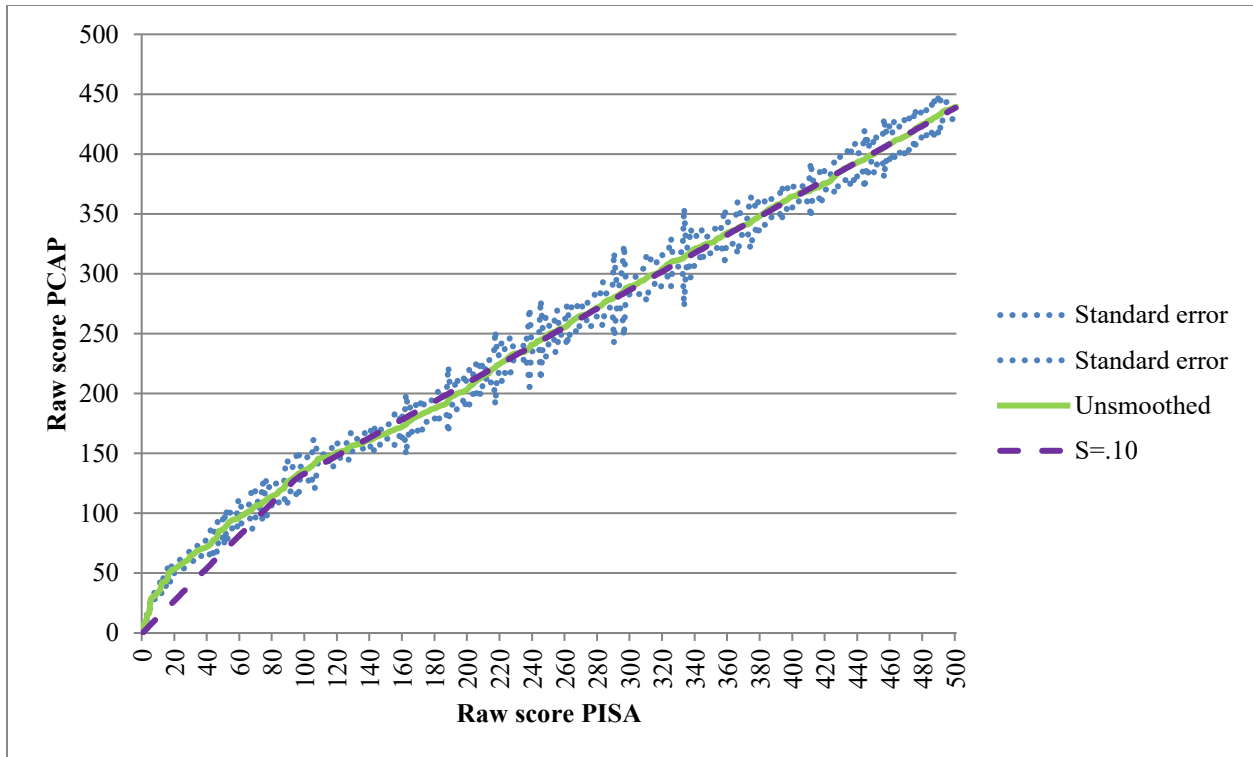


Figure 4.28. Raw-to-raw equivalents for post-smoothing  $S = .10$ .

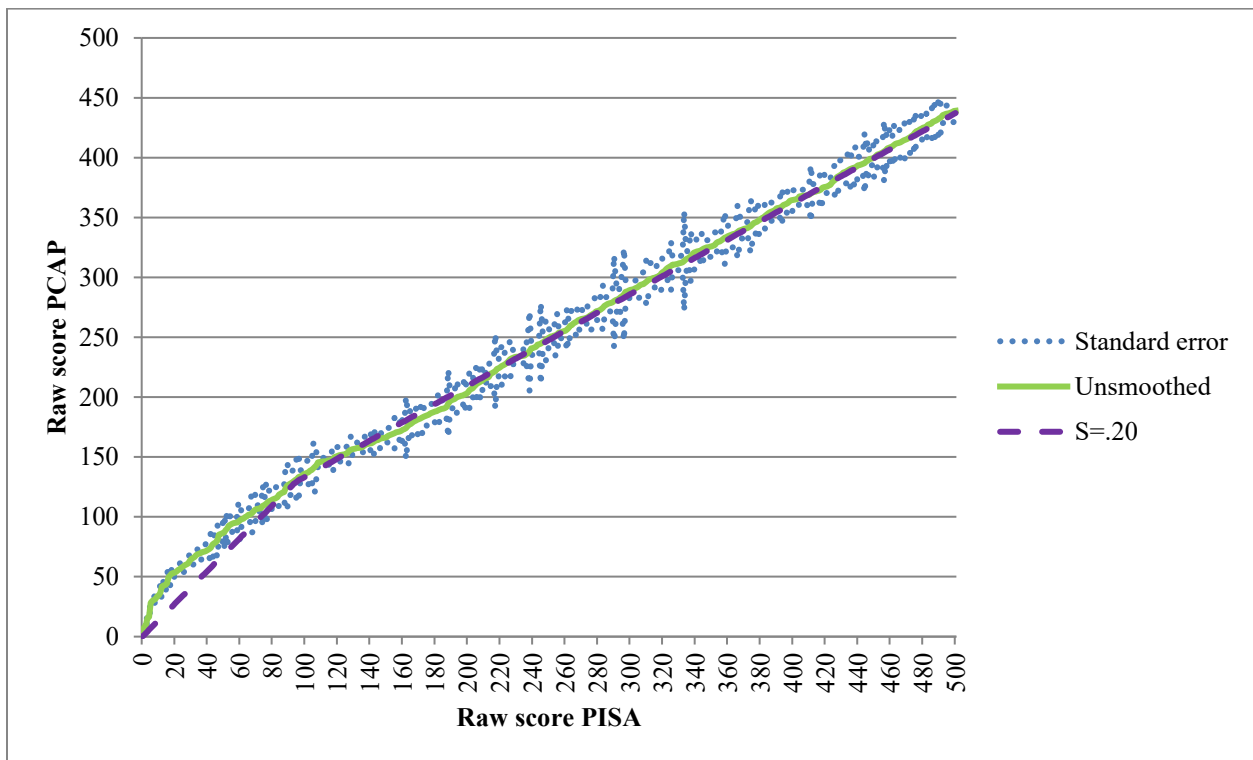


Figure 4.29. Raw-to-raw equivalents for post-smoothing  $S = .20$ .

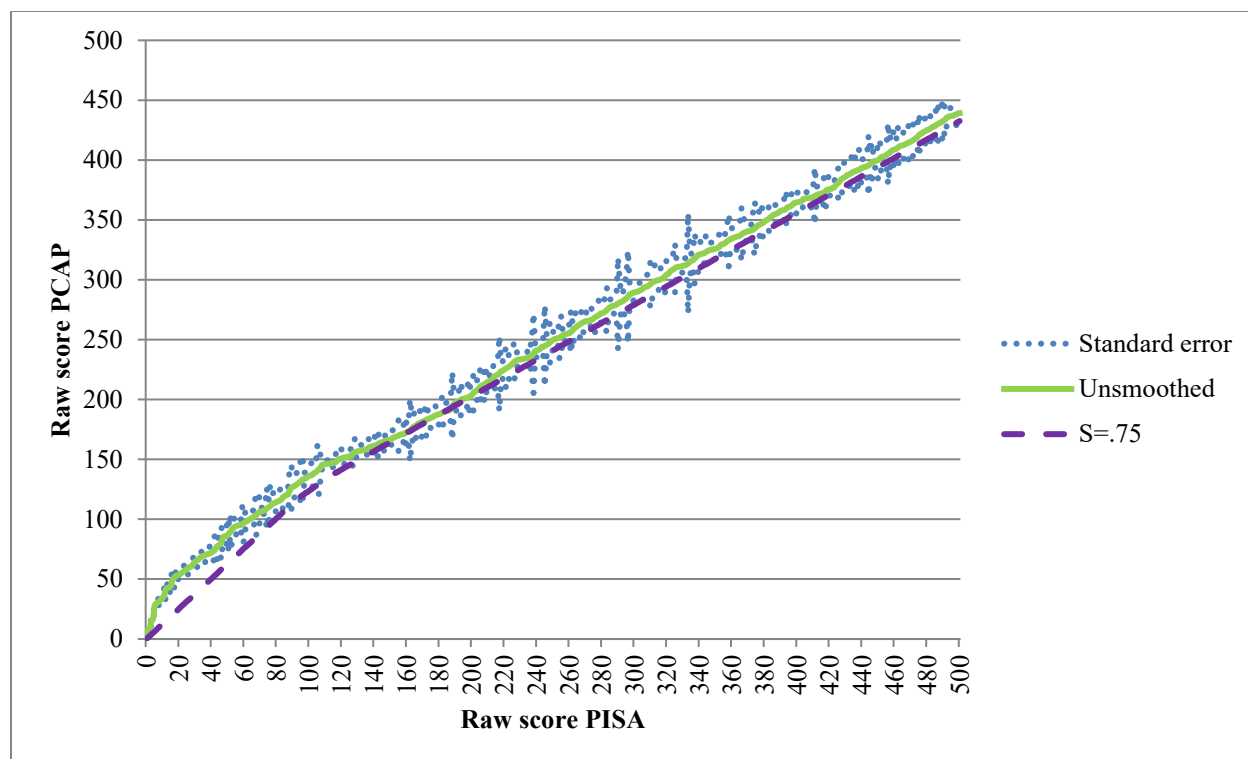


Figure 4.30. Raw-to-raw equivalents for post-smoothing  $S = .75$ .

From observing the graphs above, as the smoothing parameter increases, it slowly deviated away from the unsmooth line. The score relationships tend to be more linear as well than Mathematics. When  $S = .75$ , the smoothed line got very close to the boundary of the standard error lines. It seems in this case,  $S = .01$  or even no smoothing is required as it appeared to be more linear and that not many “bumps” are required to be smoothed. Next, the post-smoothing moments are compared in the following table.

Table 4.26.

*Raw score moments*

Test	Mean	SD	Skewness	Kurtosis
PCAP	1887.83	882.28	0.14	2.29
PISA	2092.99	888.09	-0.08	2.43
PISA equated to PCAP scale				
Unsmoothed	1887.83	882.29	0.14	2.29
$S = .01$	1887.95	882.88	0.14	2.30
$S = .05$	1887.93	882.85	0.14	2.301

$S = .10$	1887.89	882.73	0.14	2.30
$S = .20$	1887.88*	882.57	0.14*	2.30*
$S = .30$	1887.98	882.30*	0.14	2.30
$S = .40$	1888.11	881.99	0.14	2.31
$S = .50$	1888.24	881.59	0.14	2.31
$S = .75$	1888.59	880.52	0.13	2.32
$S = 1.00$	1888.86	879.75	0.13	2.33

\* Indicates the closest moment to PCAP among the smoothed estimates

Results of raw scores moments demonstrated that when  $S = .20$ , three out of the four moments (mean, skewness, and kurtosis) were the closest to PCAP, and that when  $S = .30$ , the standard error was the closest. The scale scores and their unrounded and rounded moments were examined in the following tables.

Table 4.27.

*Scale score conversion for post-smoothing (unrounded)*

PISA score	No Smooth	$S = .01$	$S = .05$	$S = .10$	$S = .20$	$S = .30$	$S = .40$	$S = .50$	$S = .75$	$S = 1.00$
190.10	208.67	190.33	190.31	190.30	190.30	190.29	190.28	190.27	190.24	190.22
191.20	220.11	198.68	197.98	197.75	197.84	197.41	196.96	196.62	195.86	195.29
203.20	221.92	204.17	203.95	203.93	203.94	203.89	203.84	203.80	203.72	203.65
204.00	238.56	208.90	208.75	208.70	208.72	208.63	208.53	208.46	207.99	207.50
208.40	238.67	213.15	212.42	212.17	212.27	211.82	211.35	210.99	210.19	209.59
209.50	253.86	219.21	218.98	218.90	218.93	218.37	217.65	217.11	215.91	215.00
213.70	254.39	220.63	220.40	220.33	220.36	220.22	220.07	219.95	219.65	219.42
218.90	255.96	225.33	224.29	223.88	224.04	223.31	222.54	221.96	220.85	220.63
220.00	257.50	227.95	227.92	227.91	227.91	227.70	227.09	226.62	225.58	224.72
220.90	259.25	228.09	228.06	228.05	228.05	228.03	228.00	227.99	227.95	227.92
513.10	486.66	486.58	486.60	486.54	486.53	486.53	486.56	486.64	486.86	487.03
513.20	486.73	486.69	486.70	486.64	486.63	486.64	486.67	486.74	486.97	487.13
513.30	486.79	486.79	486.81	486.75	486.74	486.74	486.77	486.84	487.07	487.24
513.40	486.84	486.90	486.92	486.85	486.84	486.84	486.88	486.95	487.18	487.34
513.50	486.89	487.01	487.02	486.96	486.95	486.95	486.98	487.05	487.28	487.44
513.60	486.93	487.12	487.13	487.06	487.05	487.05	487.08	487.16	487.38	487.55
513.70	487.10	487.23	487.24	487.17	487.16	487.16	487.19	487.26	487.49	487.65
513.80	487.20	487.34	487.35	487.27	487.26	487.26	487.29	487.36	487.59	487.75
513.90	487.34	487.45	487.45	487.38	487.37	487.37	487.40	487.47	487.69	487.86
514.00	487.49	487.57	487.56	487.49	487.47	487.47	487.50	487.57	487.80	487.96
803.80	745.35	783.61	782.56	779.17	776.93	776.77	777.11	777.70	778.80	778.99
807.10	748.44	789.17	787.52	783.15	779.24	779.14	779.35	780.24	782.30	782.58
808.00	748.48	793.38	792.79	789.61	784.50	783.90	785.17	785.84	786.98	788.53
816.20	748.51	794.03	793.95	793.56	790.94	790.66	791.25	791.84	793.14	793.44
816.40	748.53	796.34	796.02	794.78	793.85	793.82	793.88	793.94	794.06	794.34
821.80	762.03	801.97	801.12	799.20	796.04	796.00	796.08	796.56	797.94	798.81

823.00	763.11	806.97	806.25	803.76	802.90	802.60	803.24	803.45	803.60	803.69
824.00	763.44	816.28	816.25	813.21	807.89	807.83	807.96	808.72	810.89	812.26
826.60	763.85	822.81	822.70	822.26	821.41	821.18	821.67	821.86	822.05	822.17
828.10	764.35	827.02	826.97	826.79	826.54	826.50	826.58	826.63	826.71	826.76

Table 4.28.

*Scale score conversion for post-smoothing (rounded)*

PISA score	No Smooth	S = .01	S = .05	S = .10	S = .20	S = .30	S = .40	S = .50	S = .75	S = 1.00
190.10	208***	190	190	190	190	190	190	190***	190	190
191.20	220***	198***	198***	197***	197***	197***	197***	196***	195***	195
203.20	221***	204***	204***	203	203	203***	203	203***	203	203
204.00	238***	208***	208***	208	208***	208***	208	208***	208***	207
208.40	238***	213***	212***	212***	212***	211***	211***	211***	210***	209
209.50	253***	219***	219***	218	218***	218***	217***	217***	215***	215
213.70	254***	220***	220***	220***	220***	220***	220***	220***	219***	219
218.90	256***	225***	224***	223***	224***	223***	222***	222***	220***	220
220.00	257***	228***	227	227	227***	227***	227***	226***	225***	224
220.90	259***	228	228***	228***	228***	228	228	228***	227	227
513.10	486***	486	486***	486	486	486***	486	486***	486***	487
513.20	486	486	486***	486	486	486***	486	486***	487***	487
513.30	486	486	486***	486	486	486***	486	486***	487***	487
513.40	486***	486	486	486***	486	486***	486	486***	487***	487
513.50	486***	487	487	487***	486	486***	487***	487***	487***	487
513.60	486***	487	487	487	487	487	487***	487***	487***	487
513.70	487***	487	487	487	487	487	487***	487***	487***	487
513.80	487***	487	487	487	487	487	487***	487***	487***	487
513.90	487***	487	487***	487	487	487	487***	487***	487***	487
514.00	487***	487	487***	487	487	487	487***	487***	487***	488
803.80	745***	783***	782***	779***	776***	776***	777***	777***	778***	779
807.10	748***	789***	787***	783***	779***	779***	779***	780***	782***	782
808.00	748***	793***	792***	789***	784***	783***	785***	785***	787***	788
816.20	748***	794***	793***	793***	790***	790***	791***	791***	793***	793
816.40	748***	796***	796***	794***	793	793***	793	793***	794***	794
821.80	762***	802***	801***	799***	796	796***	796***	796***	797***	798
823.00	763***	807***	806***	803***	802***	802***	803***	803***	803***	803
824.00	763***	816***	816***	813***	807***	807***	808***	808***	810***	812
826.60	763***	822***	822***	822***	821***	821***	821***	821***	822***	822
828.10	764***	827	827***	826***	826	826***	826	826***	826***	826

\*\*\* Indicates different conversion obtained for adjacent methods

Table 4.29.

*Scale score moments – unrounded and rounded*

Test	Mean	SD	Skewness	Kurtosis
------	------	----	----------	----------



PCAP				
Unrounded	495.58	89.93	0.11	2.44
Rounded	495.63	89.94	0.11	2.44
PISA equated to PCAP scale				
Unsmoothed				
Unrounded	495.58	89.94	0.11	2.45
Rounded	495.58	89.94	0.11	2.45
$S = .01$				
Unrounded	495.61	90.27	0.12	2.53
Rounded	495.61	90.27	0.12	2.53
$S = .05$				
Unrounded	495.60	90.27	0.12	2.52
Rounded	495.60	90.27	0.12	2.52
$S = .10$				
Unrounded	495.59	90.24	0.11	2.52
Rounded	495.58	90.24	0.11	2.52
$S = .20$				
Unrounded	495.58*	90.20	0.11*	2.51*
Rounded	495.578*	90.20	0.11*	2.51*
$S = .30$				
Unrounded	495.58	90.18	0.11	2.51
Rounded	495.59	90.18	0.11	2.51
$S = .40$				
Unrounded	495.59	90.17	0.11	2.52
Rounded	495.59	90.17	0.11	2.52
$S = .50$				
Unrounded	495.61	90.15	0.11	2.53
Rounded	495.61	90.15	0.11	2.53
$S = .75$				
Unrounded	495.64	90.08	0.10	2.54
Rounded	495.64	90.08	0.10	2.54
$S = 1.00$				
Unrounded	495.66	90.03*	0.10	2.56
Rounded	495.66	90.03*	0.10	2.56

\* Indicates the closest moment to unrounded PCAP among the smoothed estimates

The results of moments above indicated that, for both unrounded and rounded scores, three of the four moments are the closest to PCAP unrounded moments when  $S = .20$ . However, SD was the closest to PCAP when  $S = 1.00$ . This result agreed with the raw score moments that  $S = .20$  would be the most appropriate choice for smoothing parameter in this condition, when science was the major domains. This smoothing parameter was then applied to the linking by language.

**Language comparisons – means and correlations.** Applying the parameter chose in this condition, the language groups results were also compared. The following table presents the means and SD of the total group, and for each language group with smoothing parameter of  $S = .20$ .

Table 4.30.

*Mean and standard error by group*

Group	Mean	SD	N
Total group	495.58	90.20	20058
English	499.81	89.16	15444
French	492.13	76.90	4614

Comparisons of means revealed that there was significant difference between the English and the French group ( $t = 5.73, p < .05$ ). For the language groups and the total group, both language comparisons of means were statistically significant:  $t = 4.42, p < .05$  for English; and  $t = 2.65, p < .05$  for French. Similar to the mathematics conditions, Pearson correlations for the English group and the French group between the scores obtained from the total linking, and the scores of separate language group linking demonstrated that, when science was the major domains, the correlations were also almost close to perfect ( $r = 1.00$ ) for both languages, with  $r(3944) = .99, p < .01$  for English, and  $r(2542) = .99, p < .01$  for French.

**Graphical comparisons.** The following figures displayed the graph for comparing the original PISA scores and the PCAP score of concordance plotted for the total group, and for each language group; and another graph plotted the differences in concordance PCAP scores between the scores of the language group and the total group.

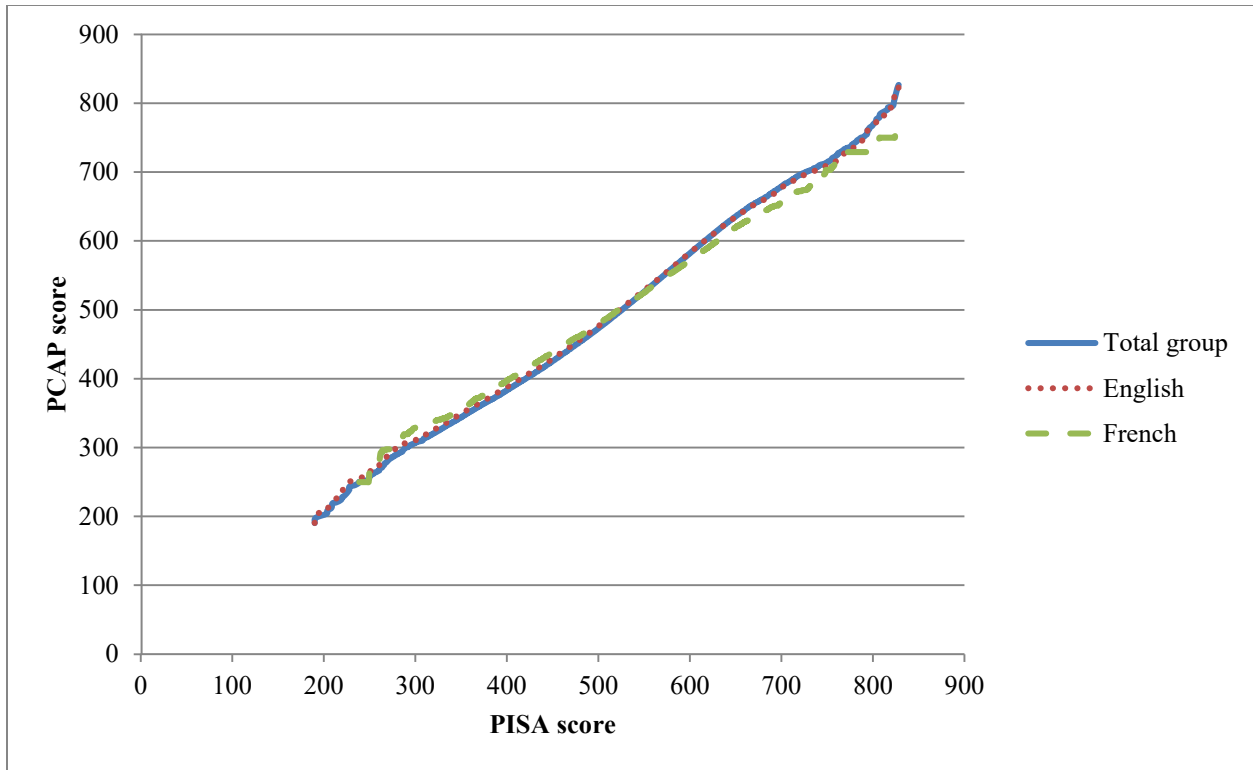


Figure 4.31. Concordance scores for English, French, and total group.

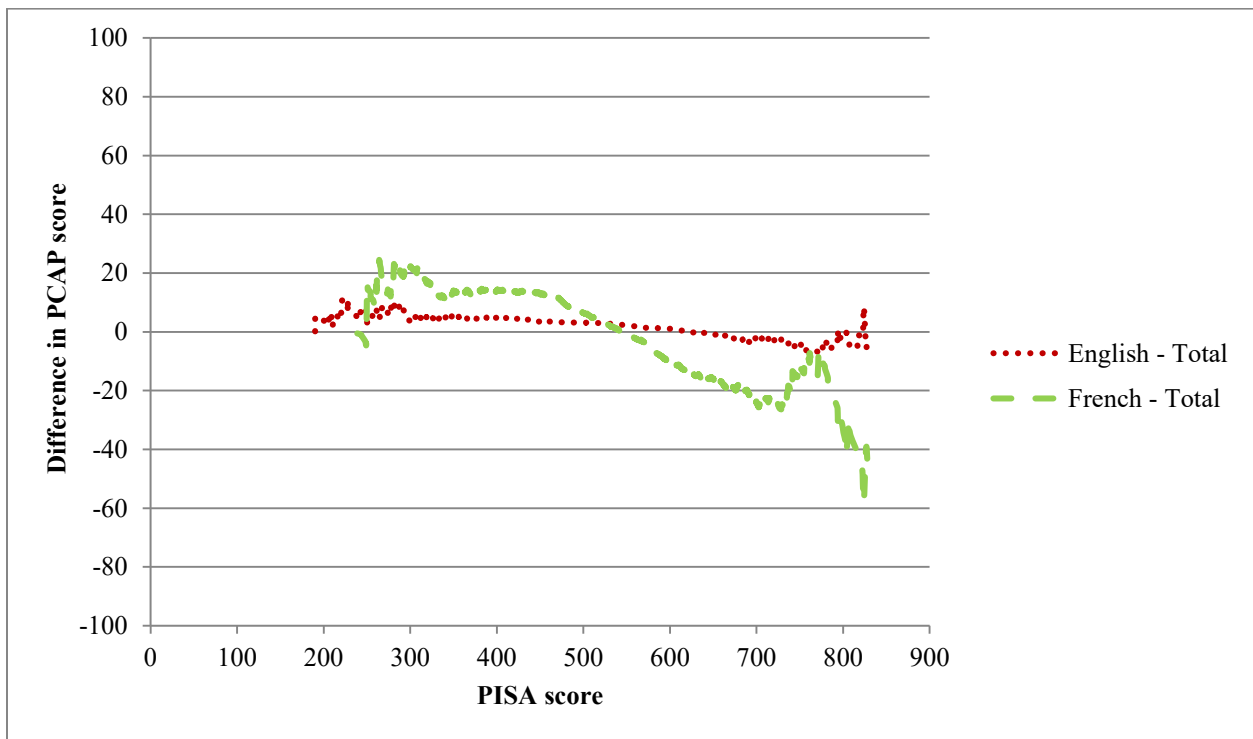


Figure 4.32. Differences in scores between language groups and total group.

Figure 4.31 above demonstrated that in this condition of Science as major domains, similar to the mathematics conditions, the concordance score of the French group tended to deviate from the total group more than the English group, while the English group aligned closely with the total group. Such deviation of the French group is to a lesser extent in this condition than the Mathematics conditions. Figure 4.32 also demonstrated that both English and French groups had scores higher than the total group from the bottom of PISA scale to until about halfway, and then with scores lower than the total group, however, the differences tend to be greater in the French group than the English group. The range of the differences were also greater in the French group than the English group, which the French group had a maximum difference of 10.93 PCAP score, and the French group had a maximum difference of -57.99 PCAP score, suggesting population invariance for the language group did not hold, especially for the French group. Next, the REMSDs were calculated.

**REMSD.** The calculation of REMSD involved the total group scores and the language group scores at the selected smoothing parameter of  $S = .20$ . The REMSD for the English subgroup was 0.07 and the REMSD for the French subgroup was 0.08. To evaluate the REMSD for both language subgroups, the standardized DTM was calculated. With SD of the entire group was 90.20, the standardized DTM was calculated as  $.5/90.20 = 0.01$ . Although the REMSD is smaller when Science was the major domains, the REMSD for both language groups were still above the DTM, indicated that population invariance did not hold for both the English and the French groups in this condition.

**Science as major and minor domains.** In this condition, PISA 2012 score data are scaled to the PCAP 2013 scale. In total, there were 3,325 unique score points, rounded to one decimal place from PISA dataset. Post-smoothing results were first compared.

*Post-smoothing parameters.* First, the raw-to-raw equivalents were graphed and compared with the standard errors at the first four  $S$  parameters ( $S = .01$ ,  $S = .05$ ,  $S = .10$ ,  $S = .20$ ), and  $S = .75$ . Due to the large number of score points, graphing all the scores would cause the graph to be more difficult to inspect, therefore, only the first 500 score points were graphed.

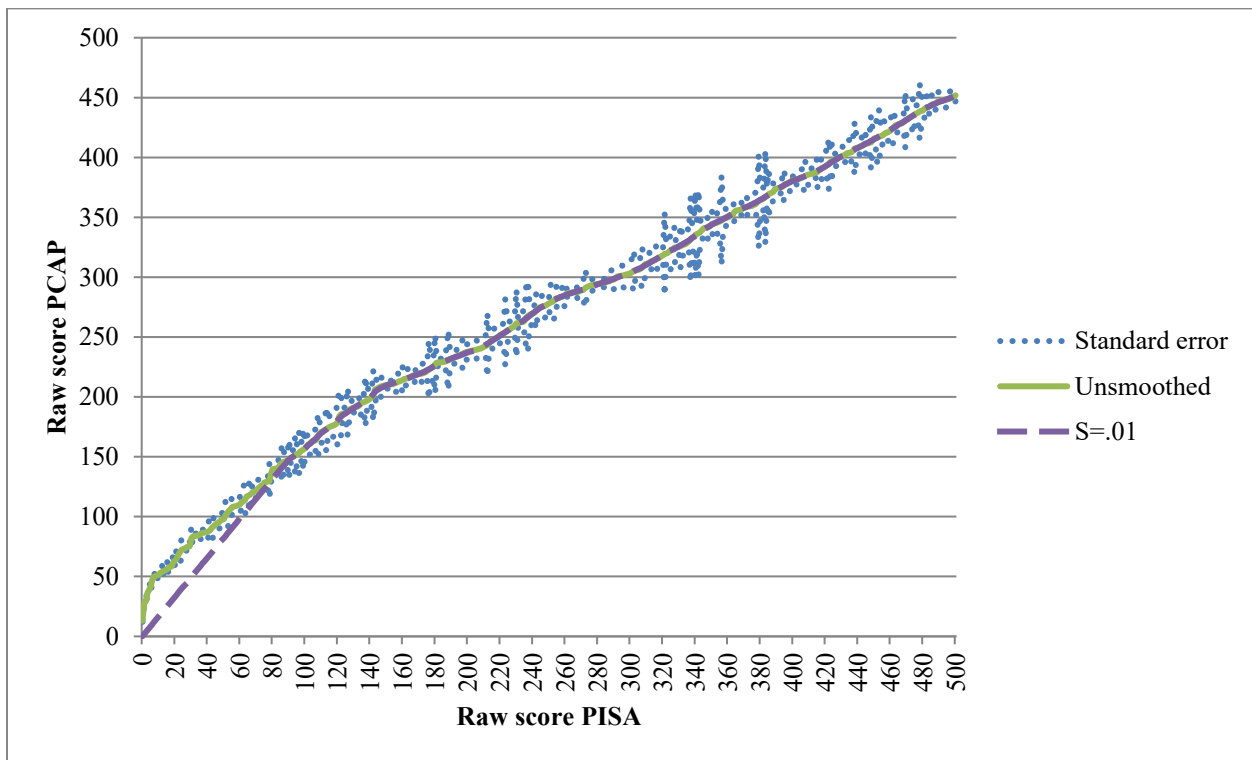


Figure 4.33. Raw-to-raw equivalents for post-smoothing  $S = .01$ .

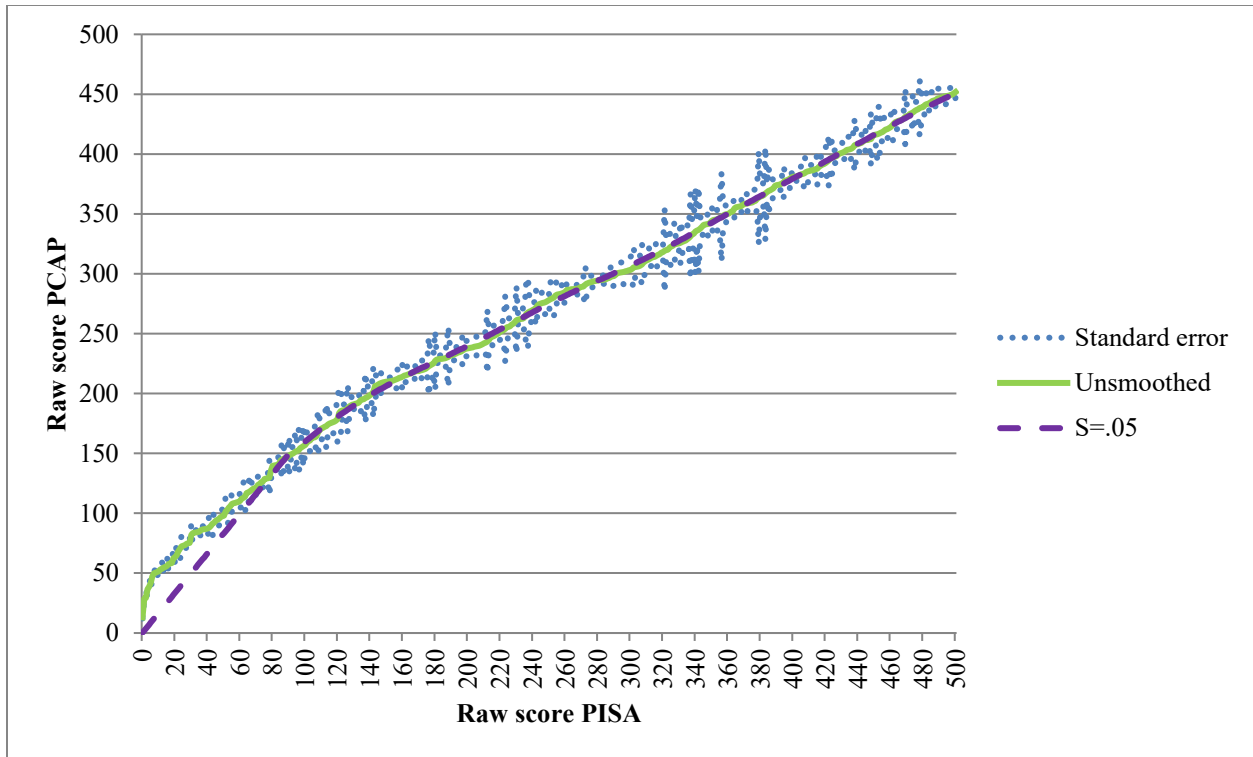


Figure 4.34. Raw-to-raw equivalents for post-smoothing  $S = .05$ .

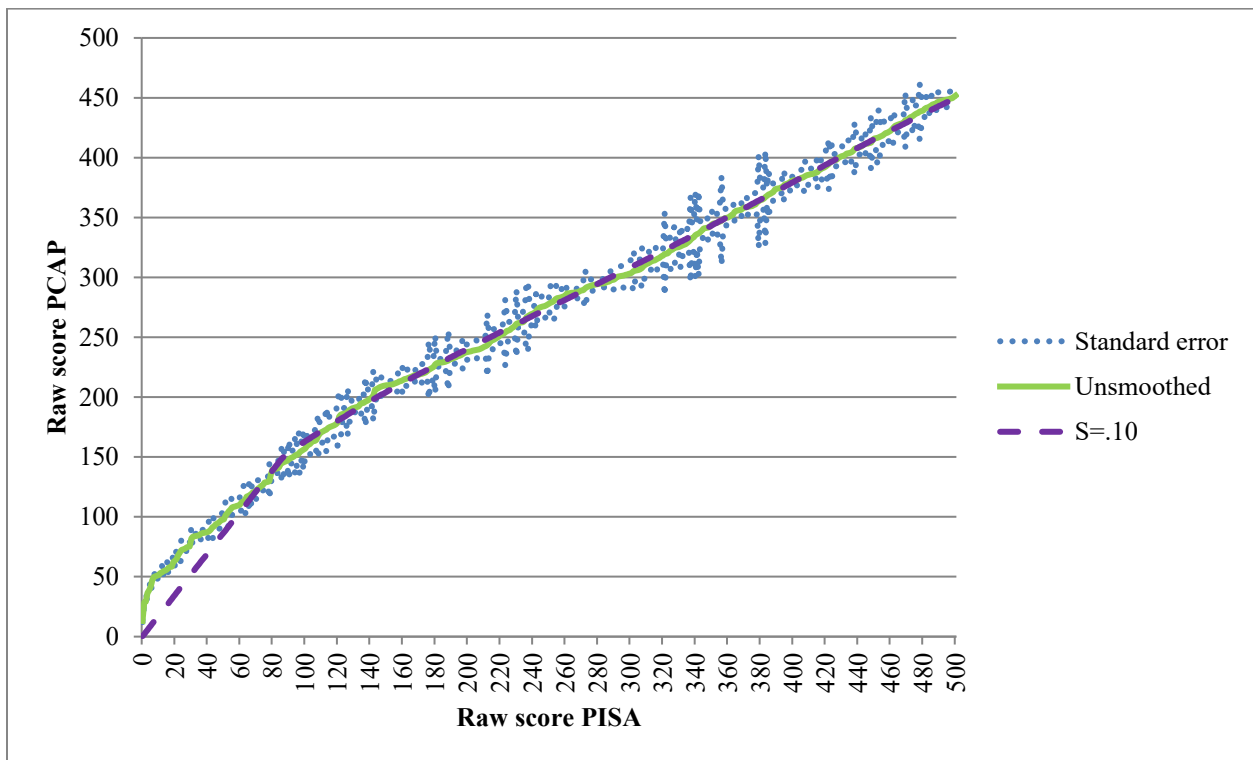


Figure 4.35. Raw-to-raw equivalents for post-smoothing  $S = .10$ .

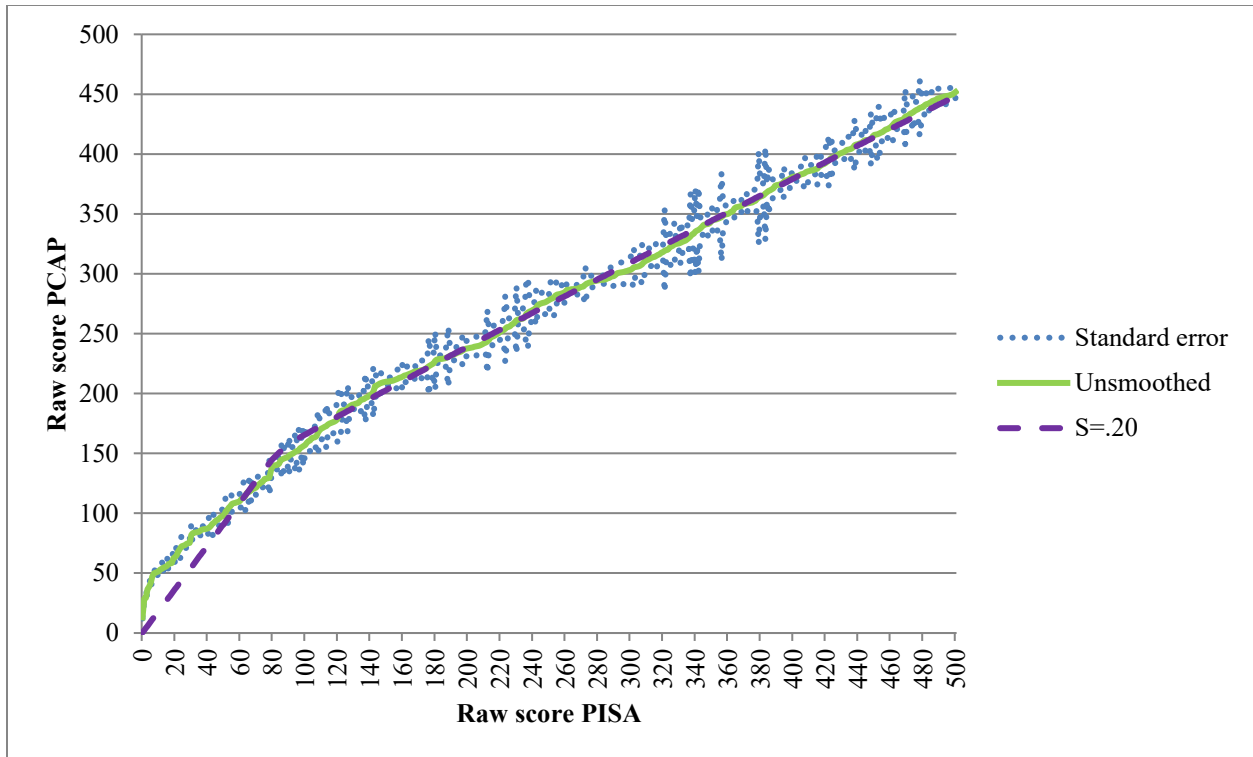


Figure 4.36. Raw-to-raw equivalents for post-smoothing  $S = .20$ .

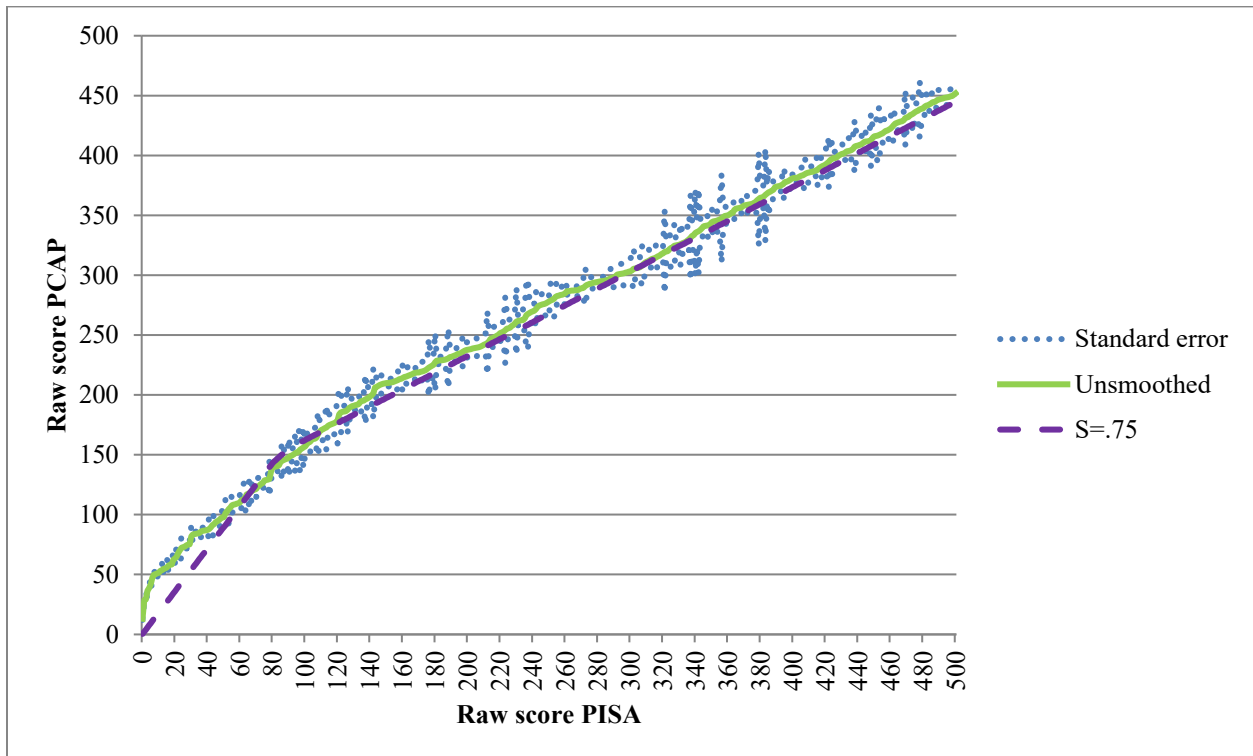


Figure 4.37. Raw-to-raw equivalents for post-smoothing  $S = .75$ .

Similar to the condition when science was major domains, in this condition the score relationships appeared to be quite linear as well. Also, as smoothing parameter increases, the deviations from the unsmoothed line was greater. It seemed that along with no smoothing,  $S = .01$ , and  $.05$  could be appropriate in this condition as they remained within the standard error lines. The post-smoothing moments are compared in the following table.

Table 4.31.

*Raw score moments*

Test	Mean	SD	Skewness	Kurtosis
PCAP	1569.64	703.92	0.14	2.28
PISA	1722.30	700.49	-0.10	2.47
PISA equated to PCAP scale				
Unsmoothed	1569.64	703.92	0.14	2.28
$S = .01$	1569.63*	704.28	0.14	2.29
$S = .05$	1569.66	704.25	0.14	2.29
$S = .10$	1569.68	704.19	0.14	2.29
$S = .20$	1569.67	704.08	0.14	2.29*
$S = .30$	1569.65	703.83*	0.14	2.29
$S = .40$	1569.67	703.37	0.14*	2.29
$S = .50$	1569.72	702.99	0.14	2.30
$S = .75$	1569.83	702.38	0.14	2.30
$S = 1.00$	1569.93	701.91	0.13	2.31

\* Indicates the closest moment to PCAP among the smoothed estimates

These results from the raw score moments were mixed, that each moment indicated different parameters that would be closest to PCAP. In terms of the mean,  $S = .01$  was the closest to PCAP; for SD,  $S = .30$  was the closest; for skewness,  $S = .40$  was the closest; and for kurtosis,  $S = .20$  was the closest. The scale scores and the moments are observed to as a next step on choosing smoothing parameter.

Table 4.32.

*Scale score conversion for post-smoothing (unrounded)*

PISA score	No Smooth	$S = .01$	$S = .05$	$S = .10$	$S = .20$	$S = .30$	$S = .40$	$S = .50$	$S = .75$	$S = 1.00$
131.20	205.32	134.49	134.59	134.96	135.39	135.67	135.80	135.76	135.24	134.83



141.50	227.52	154.06	154.43	156.23	158.34	159.71	160.32	160.13	157.59	155.58
154.60	227.95	173.65	173.82	174.48	175.49	177.01	177.69	177.48	174.96	174.25
171.50	238.68	187.91	188.36	190.10	192.07	193.12	193.17	193.16	191.37	189.49
175.10	240.16	193.63	193.68	195.90	198.74	200.59	201.33	201.17	197.73	195.03
186.30	242.22	202.18	202.35	203.00	203.05	203.08	203.09	203.09	203.03	202.80
193.10	248.63	203.24	203.35	203.78	204.23	204.51	204.64	204.60	204.08	203.63
193.70	250.59	204.63	204.75	205.04	205.34	205.50	205.58	205.55	205.24	204.95
201.30	251.34	205.47	205.54	206.53	209.29	210.21	210.54	210.44	208.31	205.70
203.00	251.62	209.71	210.00	211.11	212.15	213.39	214.22	213.97	211.79	210.72
507.40	481.71	481.79	481.94	482.01	482.11	482.20	482.39	482.51	482.57	482.60
507.70	481.81	481.89	482.04	482.12	482.25	482.50	482.57	482.62	482.67	482.71
507.80	481.92	481.99	482.14	482.26	482.52	482.61	482.67	482.72	482.78	482.81
507.90	481.98	482.11	482.34	482.52	482.63	482.72	482.78	482.83	482.88	482.92
508.00	482.32	482.36	482.55	482.62	482.73	482.82	482.88	482.93	482.99	483.02
508.10	482.71	482.60	482.65	482.73	482.84	482.93	482.99	483.04	483.10	483.13
508.20	482.77	482.72	482.76	482.83	482.94	483.03	483.10	483.15	483.21	483.27
508.30	482.80	482.83	482.86	482.93	483.05	483.14	483.20	483.30	483.41	483.44
508.60	482.92	482.94	482.96	483.04	483.15	483.29	483.41	483.46	483.51	483.55
508.70	483.03	483.05	483.07	483.14	483.31	483.45	483.51	483.56	483.62	483.65
788.90	774.08	770.68	770.17	770.05	767.98	767.28	766.85	766.62	766.58	766.66
789.30	774.15	773.07	772.93	772.90	772.43	772.06	770.91	769.68	769.49	769.90
790.50	774.22	774.66	774.55	774.53	774.20	773.82	773.37	773.06	773.01	773.11
793.00	774.29	777.51	777.34	777.30	776.61	775.66	775.17	774.92	774.88	774.96
796.20	774.36	786.70	785.98	785.82	782.95	779.09	778.57	778.26	778.21	778.31
802.60	774.45	789.95	789.88	789.86	789.58	789.26	789.15	789.09	789.08	789.10
809.20	774.56	794.00	793.85	793.81	793.22	792.53	792.02	791.71	791.66	791.76
814.50	774.67	803.13	802.91	802.86	802.00	800.83	799.89	799.32	799.24	799.42
821.30	774.78	813.69	813.59	813.56	813.14	812.56	812.09	811.81	811.77	811.86
840.90	774.89	833.37	833.24	833.21	832.69	831.98	831.40	831.05	831.00	831.11

Table 4.33.

*Scale score conversion for post-smoothing (rounded)*

PISA score	No Smoothing	S = .01	S = .05	S = .10	S = .20	S = .30	S = .40	S = .50	S = .75	S = 1.00
131.20	205***	134**	134**	135**	135**	135**		135**	135**	131.2
141.50	227***	154**	154**	156**	158**	159**	160**	160**	157**	141.5
154.60	228***	173**	173**	174**	175**	177**	177**	177**	175**	154.6
171.50	238***	187**	188**	190**	192**	193**		193**	191**	171.5
175.10	240***	193**	193**	195**	198**	200**	201**	201**	197**	175.1
186.30	242***	202**	202**		203**			203**	203**	186.3

193.1		203**	203**	203**	204**	204**		204**	204**	193.
0	248***	*	*	*	*	*	204	*	*	1
193.7		204**	204**	205**	205**	205**		205**	205**	193.
0	250***	*	*	*	*	*	205	*	*	7
201.3			205**	206**	209**	210**	210**	210**	208**	201.
0	251***	205	*	*	*	*	*	*	*	3
203.0		209**	210**	211**	212**	213**	214**	214**	211**	
0	251***	*	*	*	*	*	*	*	*	203
507.4	481***	481**	481**	482**	482**	482**	482**	482**	482	482
0		*	*	*	*	*	*	*	*	
507.7	481***	481**	482**	482**	482**	482**	482	482**	482	482
0		*	*	*	*	*	*	*	*	
507.8	481***	482**	482**	482**	482**	482**	482	482**	482	482
0		*	*	*	*	*	*	*	*	
507.9	482***	482**	482**	482**	482**	482**	482	482**	482	482
0		*	*	*	*	*	*	*	*	
508.0	482***	482**	482**	482**	482**	482**	482	482**	483	483
0		*	*	*	*	*	*	*	*	
508.1	482***	482**	482	482**	482**	482**	483	483**	483	483
0		*	*	*	*	*	*	*	*	
508.2	482***	482**	482	482**	482**	483**	483	483**	483**	483
0		*	*	*	*	*	*	*	*	
508.3	482	482**	482	482**	483**	483**	483**	483**	483	483
0		*	*	*	*	*	*	*	*	
508.6	482	482**	483	483**	483**	483**	483**	483	483	483
0		*	*	*	*	*	*	*	*	
508.7	483	483**	483	483**	483**	483**	483**	483	483**	483
0		*	*	*	*	*	*	*	*	
788.9	774***	770**	770**	770**	768**	767**	766**	766	766**	766
0		*	*	*	*	*	*	*	*	
789.3	774***	773**	772	772**	772**	772**	770**	769**	769**	769
0		*	*	*	*	*	*	*	*	
790.5	774***	774**	774**	774**	774**	773**	773**	773**	773**	773
0		*	*	*	*	*	*	*	*	
793.0	774***	777**	777	777**	776**	775**	775**	774	774**	775
0		*	*	*	*	*	*	*	*	
796.2	774***	786**	786**	785**	783**	779**	778**	778**	778**	778
0		*	*	*	*	*	*	*	*	
802.6	774***	790**	789	789**	789**	789**	789**	789	789	789
0		*	*	*	*	*	*	*	*	
809.2	774***	794**	793	793**	793**	792**	792**	791	791**	791
0		*	*	*	*	*	*	*	*	
814.5	774***	803**	802	802**	802**	800**	799**	799**	799**	799
0		*	*	*	*	*	*	*	*	
821.3	774***	813**	813	813**	813**	812**	812**	811	811**	811
0		*	*	*	*	*	*	*	*	
840.9	774***	833**	833	833**	832**	832**	831**	831**	831**	831
0		*	*	*	*	*	*	*	*	

\*\*\* Indicates different conversion obtained for adjacent methods

Table 4.34.

*Scale score moments – unrounded and rounded*

Test	Mean	SD	Skewness	Kurtosis
PCAP				
Unrounded	495.51	90.14	0.10	2.52
Rounded	495.56	90.14	0.10	2.52
PISA equated to PCAP scale				
Unsmoothed				
Unrounded	495.51	90.14	0.10	2.52
Rounded	495.52	90.14	0.10	2.52
$S = .01$				
Unrounded	495.47	90.43	0.08	2.59
Rounded	495.47	90.43	0.08	2.59
$S = .05$				
Unrounded	495.48	90.42	0.08	2.59
Rounded	495.48	90.42	0.08	2.59
$S = .10$				
Unrounded	495.49	90.40	0.09	2.59
Rounded	495.49	90.40	0.09	2.59
$S = .20$				
Unrounded	495.49	90.36	0.09*	2.58
Rounded	495.49	90.36	0.09*	2.58
$S = .30$				
Unrounded	495.49	90.31	0.09	2.58*
Rounded	495.49	90.31	0.09	2.58*
$S = .40$				
Unrounded	495.49	90.25	0.09	2.58
Rounded	495.49	90.25	0.09	2.58
$S = .50$				
Unrounded	495.49	90.21	0.08	2.58
Rounded	495.49	90.21	0.08	2.58
$S = .75$				
Unrounded	495.49	90.17	0.08	2.60
Rounded	495.49	90.17	0.08	2.60
$S = 1.00$				
Unrounded	495.50*	90.15*	0.08	2.61
Rounded	495.50*	90.15*	0.08	2.61

\* Indicates the closest moment to unrounded PISA among the smoothed estimates

Similar to the other results in this condition, the moments of the scale scores were also showing mixed results. For the mean and the SD of both unrounded and rounded scores,  $S = 1.00$  was the closest to the unrounded PCAP score; for skewness,  $S = .20$  was the closest; and for kurtosis,  $S = .30$  was the closest. In this condition when science was the major and the minor

domains, there were lesser agreements between each step in determining the most appropriate smoothing parameter. Three smoothing parameters were agreed by at least two of the steps above:  $S = .01$ ,  $.20$ , and  $.30$ . As this student is the first time to employ smoothing methods on linking the two tests, no prior experience of linking the two can assist with deciding on which parameter is best suit for these tests. Also, as the purpose of this study is to also compare between languages, choosing one parameter will also apply to linking of the languages in the same condition, therefore I have decided to use the median amongst the three parameters above, that  $S = .20$  will be used for this condition to proceed onto the next step.

*Language comparisons – means and correlations.* Applying the parameter chosen from the previous analysis, the language group results were also compared. The following table presents the means and SD of the total group, and for each language group with smoothing parameter of  $S = .20$ .

Table 4.35.

*Mean and standard error by group*

Group	Mean	SD	N
Total group	495.49	90.36	21544
English	501.86	88.64	16142
French	483.78	79.73	5402

Comparisons of means revealed that there was significant difference between the English and the French group ( $t = 14.01$ ,  $p < .05$ ) with the English group scored higher than the French group. Between the language groups and the total group, both language comparisons of means were statistically significant:  $t = 6.84$ ,  $p < .05$  for English; and  $t = 9.39$ ,  $p < .05$  for French. Similar to the condition when science was the major domains, Pearson correlations for the English group and the French group between the scores obtained from the total linking, and the

scores of separate language group linking demonstrated that, the correlations were also rounded to perfect ( $r = 1.00$ ) for both languages, with  $r(3121) = 1.00, p < .01$  for English, and  $r(2207) = 1.00, p < .01$  for French.

**Graphical comparisons.** The following figures displayed the graph for comparing the original PISA scores and the PCAP score of concordance plotted for the total group, and for each language group, followed by a graph plotted the differences in concordance PCAP scores between the scores of the language group and the total group.

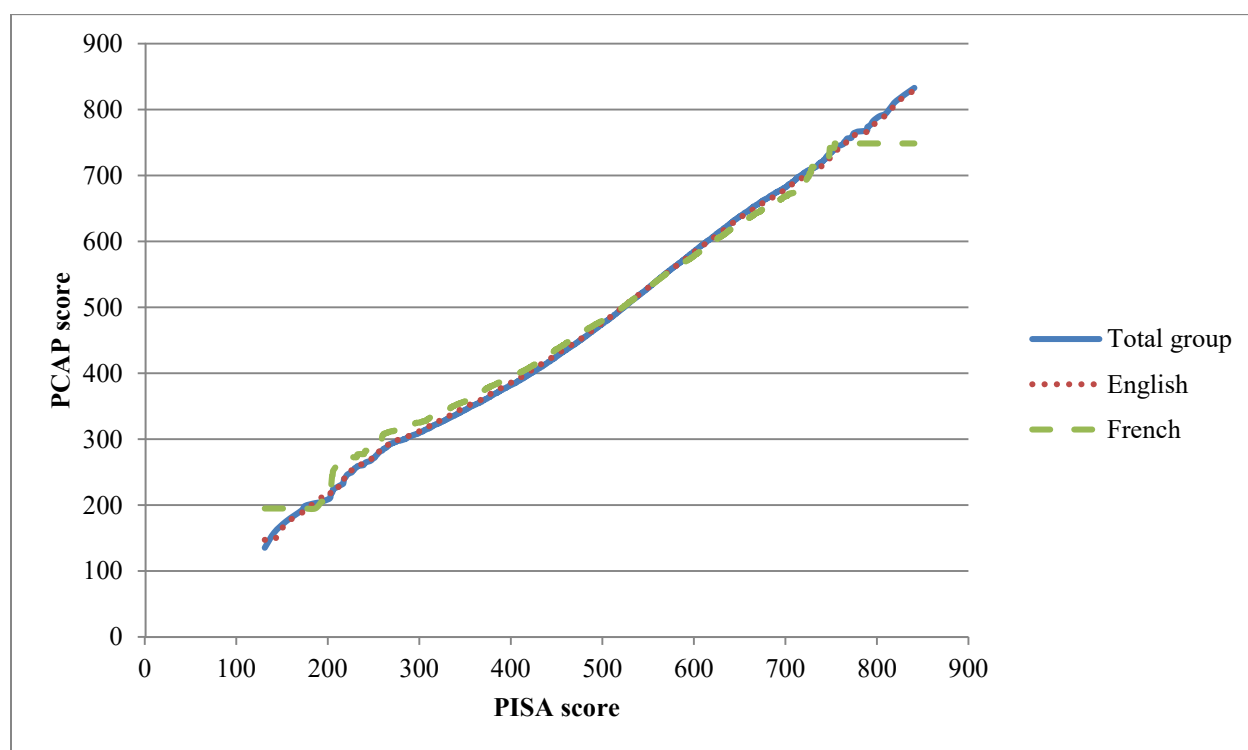


Figure 4.38. Concordance scores for English, French, and total group.

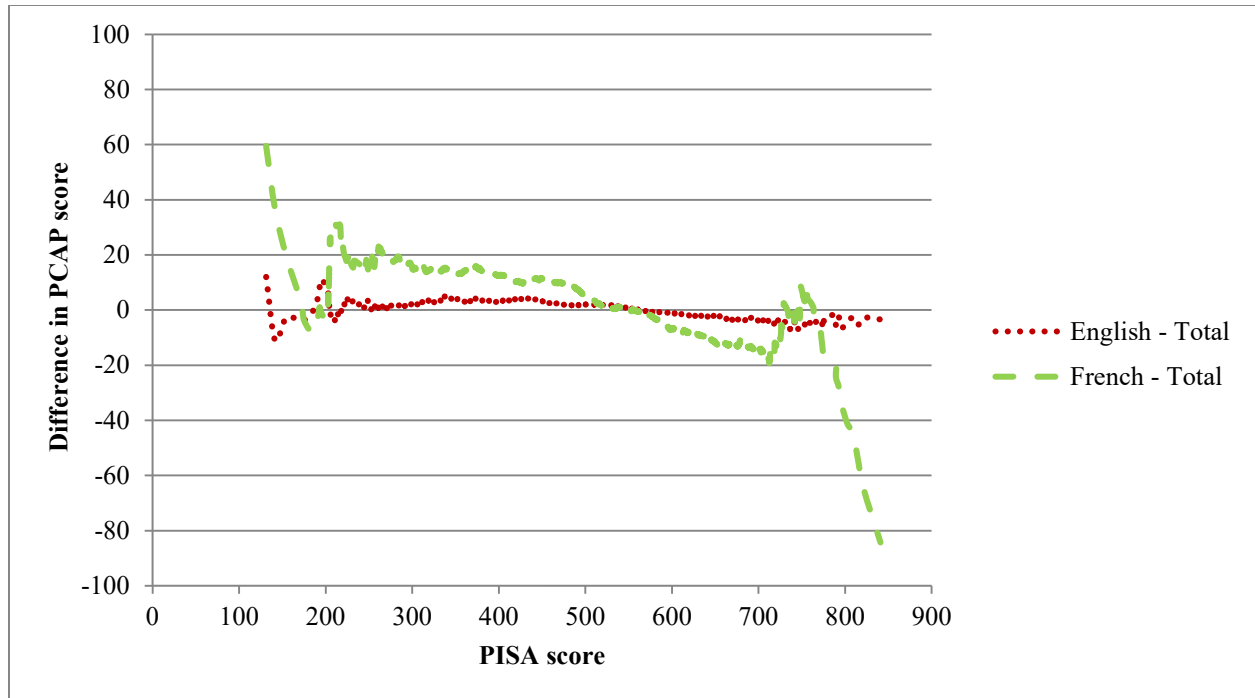


Figure 4.39. Differences in scores between language groups and total group.

Figure 4.38 above demonstrated that in this condition of Science as major and minor domains, similar to the other three conditions, the concordance score of the French group tended to deviate from the total group more than the English group, but like the other science condition for major domains, the deviation is to a lesser extent than mathematics. As demonstrated in Figure 4.39, the patterns between the English and the French group differences were similar, with majority of the scores higher than the total group from the bottom of PISA scale until to about score of 520 on PISA scale, where the concordance PCAP scores began to be lower than the total group in both language groups. Again, the range of the differences were greater in the French group than in the English group, in which the French group had a maximum difference of 12.02 PCAP score and the French group had a maximum difference of -84.28 PCAP score, suggesting population invariance for the language group did not hold, especially for the French group. Then, the REMSDs were calculated to further evaluate population invariance.

**REMSD.** The REMSDs were calculated for each language for the selected smoothing parameter of  $S = .20$ . The REMSD for the English subgroup was 0.07 and the REMSD for the French subgroup was 0.09. To evaluate the REMSD for both language subgroups, the standardized DTM was calculated. With SD of the entire group at 90.36, the standardized DTM was calculated as  $.5/90.36 = 0.01$ . Although the REMSD is smaller when Science was the major domains, the REMSD for both language groups were still above the DTM, indicated that population invariance did not hold for both the English and the French groups in this condition.

## Chapter 5

### Discussions and Conclusions

This final chapter provides a summary of the purposes of the research, the methods used in this study, followed by a discussion of the results, limitations of the study and possible future directions are also discussed for further considerations of expanding this study. Finally, conclusions of this study will be drawn.

#### Summary of Study

**Purposes of Study.** In Canada, education policies are governed at the provincial and territorial level. Educational assessments are often conducted based on the different policies and curricula at the provincial/territorial level. In order to determine if students are learning at the national level, common assessments are required to allow for comparisons. With the support of the provinces/territories, the Council of Ministers of Education, Canada (CMEC) administers large-scale national and international assessments (LSAs) across random samples of students in Canada to evaluate their learning at the Canadian level, and to compare Canada's standing with other participating countries across the globe. At the national level, the Pan-Canadian Assessment Program (PCAP) developed by CMEC measures grade eight students' knowledge and skills in mathematics, science, and reading. Sampling is done at the national level, and at the provincial/territorial levels. Administrations are in either official languages of English or French. At the international level, the Programme for International Student Assessment (PISA) is a test that measures the knowledge and skills of 15-year-old students in all participating countries. The measured core subject contents are mathematics, science, and reading. In Canada, the samplings and reporting of PISA are also done at the provincial and national level.



Due to the parallelism between PISA and PCAP on their core assessed domains, while they target different age and grade level, there is interest within Canada on their comparability, especially on their reported scores (Canadian provincial assessment programs coordinators, personal communications, October 28, 2016). By having comparability information between the two tests, this outcome would assist provinces in making decisions on their education systems such as curriculum and assessments. Even when the two test scores are scaled with means of 500 and standard deviations of 100, their test items are not the same, and therefore their difficulty will not be equivalent. In other words, having a PISA score of 520 would not be the same as a score of 520 on PCAP. Therefore, it is important to employ linking methods to establish equivalent scores for the both tests to be comparable.

Score comparability study between PISA and PCAP has never been conducted in Canada. Hence, the purpose of study is to explore the possibility of creating comparable scores of the two tests and then evaluating whether the results would differ between the two languages (i.e., English and French). Two content areas of science and mathematics were the focus of this study, as they covered the most recent major domains of these two tests with public data available. There were three main research questions for this study:

1. Can a scaling and/or linking relationship be established between PISA and PCAP?

How comparable are the scores between the two tests?

2. When comparing different scaling and linking methods, which approach works best

and under which conditions?

3. Are there any differences in scaling and linking results by content areas and language

group?

To answer these research questions, four conditions were established: (a) mathematics as major domains; (b) mathematics as major and minor domains; (c) science as major domains; and (d) science as major and minor domains. Within each condition, two linking and scaling methods – concurrent calibration as vertical scaling, and equipercentile method as concordance were used to serve as comparison of methods. Differences between languages and their invariance were examined under each condition and for each method of linking.

**Methodology.** Four sets of data were used, with each test contained two cycles of data. The PCAP 2010 and PISA 2012 data were used for condition (a) PCAP 2013 and PISA 2012 data for condition (b); PCAP 2013 and PISA 2015 data for condition (c); and PCAP 2013 and PISA 2012 for condition (d). PISA data were obtained from the OECD website, and the PCAP data were obtained from the CMEC. Prior to testing of each linking method, PISA and PCAP were first compared based on the four criteria proposed by Kolen and Brennan (2014): inferences, populations, constructs, and measurement characteristics or conditions. Then, correlations and concurrent validity between the two tests were performed as a preliminary analysis to evaluate the relationships among the scores on the tests. Concurrent calibrations and concordances for each condition and conditions were then conducted. The computer program used was IRTPRO by SSI Inc. for concurrent calibration and scoring, bootstrapping was conducted using SAS with statement *proc surveysselect*, and equipercentile method with cubic splines post-smoothing was conducted using RAGE-RGEQUATE by Zeng et al. Post-smoothing parameters were chosen by following the two steps of strategies suggested by Kolen and Brennan (2014). Linking results were examined and evaluated by determining if population invariance by language holds in each condition. Along with graphical interpretations, the root

expected mean square difference (REMSD) were calculated, and evaluated by using the difference that matter (DTM) as criteria.

**Summary of Results and Discussion of Findings.** Comparisons between PCAP and PISA revealed that, in terms of inferences, the two tests were very similar in purposes and their assessment goals. On constructs, for both mathematics and science, PISA had more subdivisions of subdomains and the descriptions these subdomains and competencies were more detailed with more sub-categories than PCAP. The descriptions of the subdomains for PCAP also tend to overlap with multiple subscales of PISA. Matching PISA and PCAP competencies and subdomains was challenging for a one-to-one match, however, the underlying skills measured between the two were quite similar. On populations, PISA and PCAP had different target populations, and the only similarity between the populations would have been the conditions when mathematics and science were major domains and that student sampled for PCAP and PISA were drawn from the same cohort of students. However, the stability of the cohort is unknown and therefore the samples drawn from the same cohort cannot be treated as the same population, hence losing the predictability of vertical scaling in concurrent calibration. On measurement characteristics or conditions, there was a change of administration mode from paper to computer for PISA since 2015, while for PCAP, the data used in this study only contained paper mode as PCAP did not changed their administration to online until 2019. Test specifications of the two tests were challenging to compare because of their differences in subdomains and other categorizations. PISA test specifications were also complex with more categories than PCAP. Both tests tend to have quite even item distributions within most of the categories; their structures were similar; they also have the same testing time.

Correlations and convergent validity analyses were conducted to further understand the relationships between PISA and PCAP. For the conditions where the contents were major domains, correlations were calculated using the overall scores and the subdomain scores, and in the condition of when contents were major and minor domains, only the content overall scores were correlated. Results of the correlations showed that, for all the contents and conditions, although the correlations were significant which could be due to the large sample sizes, all the correlations were below .20, which indicated coherent across test type (PISA and PCAP), and they remained stable. These correlations also provided evidence of convergent validity between PISA and PCAP.

Vertical scaling was first conducted using concurrent calibration. The IRT approach was used in calibration and a third score scale was created for each condition. All four of the conditions were tested by comparing their resulting means and correlations, by comparing their TCC plots, and by calculating their REMSDs to observe population invariance between language groups. For both of the conditions for mathematics (major domains, and major and minor domains), mean comparisons indicated that group invariance was not achieved when calibration was conducted all together as a total group, despite scoring that was conducted by language subgroups separately or scoring the total group as a whole. The means were also inconsistent within language groups when calibration and scoring were calculated independently. When correlations were examined, it was found that correlations were high between scores calibrated and scores separately, and when calibration and scoring were done as a total group. This correlation results indicated that it did not matter much on whether calibration and scoring were done separately or not. Both the TTC plots and the calculation of REMSDs tend to agree with one other, that group invariance could not hold. The French group tended to deviate from the

total group more than the English group and they also tended to score above the total group.

Although similar patterns to mathematics were found in sciences for both conditions, the French group in science had scores below the total group when compared to the English group.

Deviation in science was smaller than the deviation in mathematics.

Equipercentile method was used to create concordance scores. The results have indicated that the comparisons of means language group and total group were both significant across all conditions. Correlations between language group scores and total group scores were very high and almost perfect in all conditions as well. On the graphical comparisons, the graphing of concordance scores revealed that the French group tended to deviate further away from the total group, and that the English group tended to stay close to the total group. However, such deviation in the French group is smaller in science. Graphs of differences in PCAP scores between the language groups and the total group also suggested that, over all the conditions, the French group always had a larger range in score differences than the English group, indicated that population invariance did not hold for language group, especially for French. This conclusion was further supported by the REMSD – for all conditions and for both mathematics and science, the REMSD was higher than the DTM, which suggested population invariance did not hold for language. It should be note that science tended to have smaller REMSD than mathematics across conditions which could indicate that the issue of population invariance was less severe for science.

The results could also be affected by the selection of smoothing parameters, as sometimes it may require subjective decisions such as evaluations based on observing the raw score graphs. Such subjective decisions should be further backed up by evaluating moments that may provide a more objective judgement. As this study is the first demonstration of linking PCAP and PISA by

creating concordance scores using the equipercentile method, when choosing the appropriate smoothing parameter, I cannot rely on past experiences of linking the tests, as recommended by Kolen and Breannan (2014). Also, as seen in the results, the score conversion graphs were linear in all conditions and as a result linear equating could also be used in future studies and compared with the results from the equipercentile method.

Referring back to the research questions:

*1. Can a scaling and/or linking relationship be established between PISA and PCAP? How comparable are the scores between the two tests?* Both methods were able to create comparable scores between the two tests. However, the results should be interpreted with cautions. This is due to the inability to achieve population invariance by the language groups. Other factors that may contribute to language differences should also be examined, such as biases in items favoring one language over another, which can be determined through differential item functioning (DIF) analyses. Other types of group invariance such as groupings by gender could also be examined prior to determining if the new scales created, or if the concordance scores can be used interchangeably.

*2. When comparing different scaling and linking methods, which approach works best and under which conditions?* Both approaches tend to agree with one other in terms of performance of groups using their resulting scales. For example, in science, the French group tend to have a smaller diversion from the total group than mathematics. For all the conditions, both methods were not able to achieve group invariance by language. More analyses may be required in the equipercentile method on how to best select the post-smoothing parameters, and whether other methods of concordance such as the linear method or pre-smoothing should be compared. For concurrent calibration, it would be very straight forward to apply, however it should also

compare to separate calibration to determine if it is the best of both vertical scaling methods. Between the concurrent calibration method and the equipercentile method for establishing comparable scores, depending on the purposes of using the comparable scores, if the scores are used for referencing to provide a general understanding of relationship between scores of PISA and PCAP, the equipercentile method is the better approach. This is due to the complexity of PISA plausible values (PVs) are generated, and that unless all PVs are scaled, it would be difficult to conclude on the score conversions from the concurrent calibrations. When student level score conversions are required, then the concurrent calibration method would be appropriate.

*3. Are there any differences in scaling and linking results by content areas and language group?*

The French group tended to deviate less from the total group for both methods in science. However, it seemed the French group also tended to score higher than the English group when the equipercentile method was used. The English group, across methods and across content areas, tended to align closer to the total group. With the use of both linking methods, language group invariance was not achieved. This leads to the following discussions on limitations and future directions.

**Limitations.** There were important limitations of this study. First, on evaluation and comparisons of domains and subdomains between PCAP and PISA, decisions were made based on researcher's personal judgement using the definitions provided. The lack of content knowledge and the lack of clarity in some descriptions could lead to differences in interpretations when compared to decisions made by a content expert. Future study may use content experts in the subjects of mathematics and science to evaluate the similarities of frameworks between the

two tests. Second, the issue with population invariance of language may be due to differences in performance between the students in each language group. As a result, using gender group for determining invariances may be more appropriate. Because the purpose of this study is to determine the differences in languages, this grouping variable was used. Third, results of this study are cycle dependent – meaning results can only be applied to the years the data were used. For this reason, when concurrent calibrations and concordance scaling was conducted, only the two years data of the two tests per linking was used. The resulting scale was not linked with the other cycles of the tests. This limitation to generalize the results to other administration cycle is especially true when new items were used when a subject is a major domain, and when different numbers of items were used across different years for each test. Although no mode effect was claimed for PISA test when it changed from paper administration to computer administration, it is unclear if the resulting scales established in this study could be applied to the newer cycles of PISA (e.g. PISA 2018, and PISA 2021) when computerized testing was used. Also, because of the assumption in this study was based on the claims made that there were no mode effects on administration method, the differences in administration mode between computer PISA 2015 and paper PCAP 2013 was not examined and this condition is worth exploring in the future.

Forth, the concurrent calibration method is similar to rescaling because no common items exist between PISA and PCAP. As a result, this study is similar to a rescaling study. The use of this scaling method could cause instability in the results due to a lack of common-item and inequivalent group. This approach could also cause the results to lose its predictability feature making the concurrent calibration condition in this study more closer to a rescaling approach. For these reasons, the resulting conversion tables should not be treated as truly comparability of scores between PISA and PCAP



Fifth, on equipercetile concordance, only the first plausible value of PISA tests was used, which ideally, should be done on all PVs to obtain a full coverage of a student's score equivalency to PCAP. Also, the meaning behind PISA and PCAP scores could be different, as PVs were estimated using population modeling with correlating variables, while PCAP scores were estimated using student responses on the test. The linking and concordance only provide a referential type of understanding.

**Future Directions.** One major limitation of this study was the lack of common items and the design of unequivalent groups. These features resulted in a lack of predictability for the vertical scaling method. To address this issue, a propensity score method (PSM) can be used to create more comparable groups and solving the problem of unequivalent groups in this study so that the linking results are more predictive. PSM is a statistical technique that is used to create a more similar sample when random sampling cannot be done to ensure a balanced sample. This method is normally used in quasi-experimental or observational data for comparing two groups, which often are called control group and treatment group in PSM studies (Austin, 2011; Olmos & Govindasamy, 2015; Rosenbaum & Rubin, 1983). Logistic regression models are normally used to estimate a propensity score for each individual, then cases in the "control" group are matched with the cases from another group that "would likely be given treatment", which the assignment of treatment is regressed on the observed covariates (Austin, 2011; Olmos & Govindasamy, 2015). The propensity score is the probability of treatment assignment conditional on observed baseline covariates (Rosenbaum & Rubin, 1983). Future study may apply this method to first create equivalent groups, followed by lining procedures such as concurrent calibrations.

Another future study may address the issue of subjective judgement I have used when comparing the test specifications and contents of PISA and PCAP, as I am not an expert in mathematics or science. Future studies may employ content experts to match similarities between the frameworks and test specifications of PISA and PCAP. Also, as discussed earlier, population invariance in this study was only explored between language groups. Future studies could include invariance between gender. However, gender differences may also be found in subjects such as mathematics, therefore it is important to inspect for biases with DIF prior to further investigations. Future studies could also be conducted to compare the equipercetile method with the linear method because many concordance graphs appeared to be linear in this study across all contents and conditions. In addition, it is worthwhile to examine the difference between results of concurrent calibrations and separate calibrations, as this study demonstrated some possibilities of different calibration methods in the methodology.

This study has demonstrated the possibilities to link and rescale tests with mixed formats (i.e., multiple choice [MC] and constructed response [CR]), however, the effects of such linking should also be explored in different test formats. For example, linking of tests with only one item type (e.g. MC only, or CR only). With the growing use of technology in assessments, it is also interesting to examine the linking of tests consisting of different innovative item types, for example, linking of test with traditional item formats of MC and CR with test consisted of innovative items such as drag-and-drop, and assessments through simulation or gaming.

## **Conclusion**

This study explored the differences between two linking and scaling methods to determine if equivalent scores can be established between PCAP and PISA. Results appeared to be inclusive on which method worked best and language group invariance could not be achieved

for all conditions, and that results should be interpreted with cautions. Results should not be treated fully as comparability between the two tests due to the reasons discussed. However, this study has an important contribution in the field of education in Canada as it has not been conducted before. It further promotes the uses of different large-scale assessments to inform understanding of student learning, by demonstrating methods and procedures on making comparisons between tests, and by discussing the rigorous processes in test developments. Large-scale assessments, when developed and interpreted properly, can serve to provide a lot of information for stakeholders such as identifying rooms for policy improvements. The results of this study also opened the door to other possibilities of future research which may solve the issues raised in this study. This study served as the first step in understanding the relationships between PCAP and PISA, and to fill the gap in knowledge for educators across the provinces.

### References

- American Educational Research Association., American Psychological Association., National Council on Measurement in Education., & Joint Committee on Standards for Educational and Psychological Testing (U.S.). (2014). *Standards for educational and psychological testing*.
- Angoff, W. H. (1971). Scales, norms and equivalent scores. In R. L. Thorndike (Ed.), *Educational measurement* (2nd ed., pp. 508-600). Washington DC: American Council on Education.
- Austin, P. C. (2011). An introduction to propensity score methods for reducing the effects of confounding in observational studies. *Multivariate Behavioral Research*, 46, 399-424.
- Baker, F. B., & Al-Karni, A. (1991). A comparison of two procedures for computing IRT equating coefficients. *Journal of Educational Measurement*, 28, 147-162.
- Bloom, B. S., Hastings, J. T., & Madaus, G. F. (1971). *Handbook on formative summative evaluation of student learning*. San Francisco: McGraw-Hill.
- Brennan, R. L. (2006). Perspectives on the evolution and future of educational measurement. In R. L. Brennan (ed.), *Educational measurement: Fourth edition*. (pp. 1-16). Westport, CT: Praeger Publishers.
- Brochu, P., Deussing, M-A., Houme, K., & Chuy, M. (2013). *Measuring up: Canadian Results of the OECD PISA Study. The Performance of Canada's Youth in Mathematics, Reading and Science – 2012 First Results for Canadians Aged 15*, Council of Ministers of Education, Canada, Toronto. Retrieved from [http://cmec.ca/Publications/Lists/Publications/Attachments/318/PISA2012\\_CanadianReport\\_EN\\_Web.pdf](http://cmec.ca/Publications/Lists/Publications/Attachments/318/PISA2012_CanadianReport_EN_Web.pdf)

Budescu, D. (1985). Efficiency of linear equating as a function of the length of the anchor test.

*Journal of Educational Measurement*, 22, 13–20.

Cartwright, F. (2003). *Equipercntile methods of linking inter-regional and regional*

*assessments*. Retrieved from [https://search-proquest-](https://search-proquest-com.login.ezproxy.library.ualberta.ca/pqdtlocal1006264/docview/305257966/C281E7A1FD)

[com.login.ezproxy.library.ualberta.ca/pqdtlocal1006264/docview/305257966/C281E7A1FD](https://search-proquest-com.login.ezproxy.library.ualberta.ca/pqdtlocal1006264/docview/305257966/C281E7A1FD)

[CC4036PQ/2?accountid=14474](https://search-proquest-com.login.ezproxy.library.ualberta.ca/pqdtlocal1006264/docview/305257966/C281E7A1FD)

Chu, M-W., & Fung, K. (May 2017). Relationship between classroom-based and large-scale

assessments across Canada. Paper presented at the annual meeting of the Canadian Society for the Study of Education, Toronto, ON.

CMEC (2010). *Pan-Canadian Assessment Program (PCAP): Mathematics Assessment*

*Framework*, CMEC, Toronto. Retrieved from

<https://www.cmec.ca/docs/pcap/pcap2013/Math-Framework-April-2013-EN.pdf>

CMEC (2011). *PCAP 2010: Report on the Pan-Canadian Assessment of Mathematics, Science,*

*and Reading*, Council of Ministers of Education, Canada, Toronto. Retrieved from

<http://cmec.ca/Publications/Lists/Publications/Attachments/274/pcap2010.pdf>

CMEC (2013). *Pan-Canadian Assessment Program (PCAP): Science Assessment Framework*,

Council of Ministers of Education, Canada, Toronto. Retrieved from

<http://www.cmec.ca/docs/pcap/pcap2013/PCAP-2013-Science-Assessment-Framework->

[EN.pdf](http://www.cmec.ca/docs/pcap/pcap2013/PCAP-2013-Science-Assessment-Framework-)

Cohen, J. (1988) *Statistical Power Analysis for the Behavioral Sciences*, 2nd ed. Hillsdale, NJ:

Erlbaum

DeMars, C. (2010). *Item response theory*. New York, NY: Oxford University Press Inc.

- Dorans, N. J. (1999). Correspondences between ACT and SAT I scores. *College Board Report, 99-1*, 1-18.
- Dorans, N. J. (2004). Equating, concordance, and expectation. *Applied Psychological Measurement, 28*(4), 227-246.
- Dorans, N. J., & Holland, P. W. (2000). Population invariance and the equatability of tests: Basic theory and the linear case. *Journal of Educational Measurement, 37*, 281–306.
- Dorans, N. J., Holland, P. W., Thayer, D. T., & Tateneni, K. (2003). Invariance of scoring across gender groups for three Advanced Placement Program examinations. In N. J. Dorans, (Ed.), *Population invariance of score linking: Theory and applications to Advanced Placement Program examinations* (ETS RR–03–27, pp. 79–118). Princeton, NJ: Educational Testing Service.
- Dorans, N. J., Lyu, C. F., Pommerich, M., & Houston, W. M. (1997). Concordance Between ACT Assessment and Recentered SAT I Sum Scores. *College and University, 73*(2), 24-32.
- Dorans, N. J., Moses, T. P., & Eignor, D. R. (December 2010). *Principles and practices of test score equating*. Retrieved from <https://www.ets.org/Media/Research/pdf/RR-10-29.pdf>
- Efron, B., & Tibshirani, R. J. (1994). *An introduction to the bootstrap*. New York: Chapman & Hall.
- Flanagan, J. C. (1951). Units, scores, and norms. In E. F. Lindquist (Ed.), *Educational measurement* (pp. 695-763). Washington, DC: American Council on Education.
- Fung, K. (2011). EDPY 508 item response theory final paper: Comparing classical test theory methods on equating a mathematics test. Unpublished manuscript, University of Alberta.

- Fung, K., & Chu, M-W. (2015). Fairness of standardized assessments: Discrepancy between provincial and territorial results. *Journal of Contemporary Issues in Education, 10*(1), 2-24.  
Retrieved from: <https://journals.library.ualberta.ca/jcie/index.php/JCIE/article/view/21392>
- Gotzmann, A. J. (2011). *Comparison of vertical scaling methods in the context of NCLB*. (Unpublished doctoral dissertation). University of Alberta, Edmonton, AB, Canada.
- Hanson, B. A., Béguin, A. A. (2002). Obtaining a common scale for item response theory item parameters using separate versus concurrent estimation in the common-item equating design. *Applied Psychological Measurement, 26*(1), 3-24.
- Hanson, B. A., Zeng, L., & Colton, D. (1991). A comparison of pre-smoothing and post-smoothing methods in equipercentile equating. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago.
- Haebara, T. (1980). Equating logistic ability scales by a weighted least squares method. *Japanese Psychological Research, 22*, 144-149.
- Ito, K., Sykes, R. C., & Yao, L. (2008). Concurrent and separate grade-groups linking procedures for vertical scaling. *Applied Measurement in Education, 21*, 187-206.
- Pommerich, M., Hanson, B. A., Harris, D. J., & Sconing, J. A. (2004). Issues in conducting linkages between distinct tests. *Applied Psychological Measurement, 28*(4), 247-273.
- Holland, P. W., & Dorans, N. J. (2006). Linking and equating. In R. L. Brennan (ed.), *Educational measurement: Fourth edition*. (pp. 187-220). Westport, CT: Praeger Publishers.
- Huh, N., & Lee, W-C. (February 2009). The effect of different factors on group invariance in a concordance context with a single group design. *CASMA Research Report, 28*, v-24.
- Kang, T., & Petersen, N. S. (June 2012). Linking item parameters to a base scale. *Asia Pacific Education Review, 13*(2), 311-321.

- Kelley, T. L. (1914). Comparable measures. *Journal of Educational Psychology*, 5, 589-595.
- Kelley, T. L. (1923). *Statistical methods*. New York: Macmillan.
- Kim, J. (2007). *A comparison of calibration methods and proficiency estimators for creating IRT vertical scales*. (doctoral dissertation). University of Iowa, Iowa City, IA, USA.
- Kim, S.-H., & Cohen, A. S. (2002). A comparison of linking and concurrent calibration under the graded response model. *Applied Psychological Measurement*, 25, 25-41.
- Kim, S., & Kolen, M. J. (2006). Robustness to format effects of IRT linking methods for mixed-format tests. *Applied Measurement in Education*, 19(4), 357-381.
- Kim, S. & Lee, W-C. (December 2004). IRT scale linking methods for mixed-format tests. *ACT Research Report Series 2004-5*, 1-56.
- Kolen, M. J. (2004). Linking assessments: Concepts and history. *Applied Psychological Measurement*, 28(4), 219-226.
- Kolen, M. J. (2006). Scaling and norming. In R. L. Brennan (ed.), *Educational measurement: Fourth edition*. (pp. 155-186). Westport, CT: Praeger Publishers.
- Kolen, M. J., & Brennan, R. L. (2004). *Test equating, scaling, and linking: Methods and practices* (2nd ed.). New York: Springer-Verlag.
- Kolen, M. J., & Brennan, R. L. (2014). *Test equating, scaling, and linking: Methods and practices* (3rd ed.). New York: Springer-Verlag.
- Kolen, M. J., & Brennan, R. L. (1995). *Test equating: Methods and practices*. New York: Springer-Verlag.
- Lee, W-C., & Ban, J-C. (2010). A comparison of IRT linking procedures. *Applied Measurement in Education*, 23, 23-48.



Lei, P-W., & Zhao, Y. (2012). Effects of vertical scaling methods on linear growth estimation.

*Applied Psychological Measurement, 36(1)*, 21-39.

Leighton, J. P., & Gierl, M. J. (2011). *The learning sciences in educational assessment: The role of cognitive models*. New York: Cambridge University Press.

Linn, R. L. (1993). Linking results of distinct assessments. *Applied Measurement in Education, 6*, 83-102.

Mehrens, W. A., & Lehmann, I. J. (1991). *Measurement and evaluation in education and psychology* (4<sup>th</sup> ed.). Fort Worth, TX: Holt, Rinehart & Winston.

Meng, H. (2007). *A comparison study of IRT calibration methods for mixed-format tests in vertical scaling*. (Doctoral dissertation). University of Iowa, Iowa City, IA, USA.

Mislevy, R. J. (1992). *Linking educational assessments: Concepts, issues, methods, and prospects*. Princeton, NJ: Educational Testing Service, Policy Information Center.

Muraki, E. (1992). A generalized partial credit model: Application of an EM algorithm. *ETS Research Report Series, 1992(1)*, 1-30.

Muraki, E., Hombo, C. M., & Lee, Y-W. (2000). Equating and linking of performance assessments. *Applied Psychological Measurement, 24(4)*, 325-337.

Ngo, F., & Kwon, W. (2014). Using multiple measures to make math placement decisions: Implications for access and success in community colleges. *Research in Higher Education, 56(5)*, 442-470.

OECD (2009). Plausible values. In *PISA Data Analysis Manual: SPSS Second Edition*, OECD Publishing, Paris. Retrieved from [https://www.oecd-ilibrary.org/docserver/9789264056275-](https://www.oecd-ilibrary.org/docserver/9789264056275-7-)

[7-](#)

[en.pdf?expires=1557129129&id=id&accname=guest&checksum=35AD2E07DFC30B0129184A3B4B362816](https://www.oecd.org/pisa/pisaproducts/PISA%202012%20framework%20e-book_final.pdf?expires=1557129129&id=id&accname=guest&checksum=35AD2E07DFC30B0129184A3B4B362816)

OECD (2013), *PISA 2012 Assessment and Analytical Framework: Mathematics, Reading, Science, Problem Solving, and Financial Literacy*, OECD Publishing, Paris. Retrieved from [https://www.oecd.org/pisa/pisaproducts/PISA%202012%20framework%20e-book\\_final.pdf](https://www.oecd.org/pisa/pisaproducts/PISA%202012%20framework%20e-book_final.pdf)

OECD (2014). *PISA 2012 Results (Volume I): What Students Know and Can Do: Student Performance in Mathematics, Reading and Science*, OECD Publishing, Paris. Retrieved from <https://www.oecd.org/pisa/keyfindings/pisa-2012-results-volume-I.pdf>

OECD (2016). *PISA 2015 Results (Volume I): Excellence and Equity in Education*, OECD Publishing, Paris. Retrieved from <http://dx.doi.org/10.1787/9789264266490-en>

OECD (2016a). *PISA 2015 Assessment and Analytical Framework: Science, Reading, Mathematic and Financial Literacy*, OECD Publishing, Paris. Retrieved from <http://dx.doi.org/10.1787/9789264255425-en>

OECD (2017), *PISA 2015 Assessment and Analytical Framework: Science, Reading, Mathematic, Financial Literacy and Collaborative Problem Solving – Revised edition*, OECD Publishing, Paris. Retrieved from <http://www.oecd.org/publications/pisa-2015-assessment-and-analytical-framework-9789264281820-en.htm>

OECD (2017a). Scaling PISA data. In *PISA 2015 Technical Report*, OECD Publishing, Paris. Retrieved from <https://www.oecd.org/pisa/sitedocument/PISA-2015-Technical-Report-Chapter-9-Scaling-PISA-Data.pdf>

O’Grady, K., Deussing, M-A., Scerbina, T., Fung, K., & Muhe, N. (2016). *Measuring up: Canadian Results of the OECD PISA Study: The Performance of Canada’s Youth in Science, Reading and Mathematics – 2015 First Results for Canadian Aged 15*, Council of Ministers

of Education, Canada, Toronto. Retrieved from

[http://www.cmec.ca/Publications/Lists/Publications/Attachments/372/PISA2015\\_FL\\_EN.pdf](http://www.cmec.ca/Publications/Lists/Publications/Attachments/372/PISA2015_FL_EN.pdf)

O'Grady, K., Fung, K., Servage, L., & Khan, G. (2018). *PCAP 2016: Report on the Pan-Canadian Assessment of Reading, Mathematics, and Science*, Council of Ministers of Education, Canada, Toronto. Retrieved from

<https://www.cmec.ca/publications/lists/publications/attachments/381/pcap-2016-public-report-en.pdf>

O'Grady, K. & Houme, K. (2015). *PCAP 2013: Contextual Report on Student Achievement in Science*, Council of Ministers of Education, Canada, Toronto. Retrieved from

[https://cmec.ca/Publications/Lists/Publications/Attachments/350/PCAP2013\\_ContextualReport\\_Final\\_Web\\_EN.pdf](https://cmec.ca/Publications/Lists/Publications/Attachments/350/PCAP2013_ContextualReport_Final_Web_EN.pdf)

O'Grady, K. & Houme, K. (2014). *PCAP 2013: Report on the Pan-Canadian Assessment of Science, Reading, and Mathematics*, Council of Ministers of Education, Canada, Toronto.

Retrieved from <http://cmec.ca/Publications/Lists/Publications/Attachments/337/PCAP-2013-Public-Report-EN.pdf>

Olmos, A., & Govindasamy, P. (2015). Propensity scores: A practical introduction using R.

*Journal of Multidisciplinary Evaluation*, 11(25), 68-88.

O'Rourke, N., Hatcher, L., & Stepanski, E. J. (2005). *A step-by-step approach to using SAS for univariate & multivariate statistics* (2<sup>nd</sup> Ed.). Cary, NC: SAS Institute Inc.

Pang, X., Madera, E., Radwan, N., & Zhang, S. (April 2010). A comparisons of four test equating methods. *EQAO Research*. Retrieved from

[http://www.eqao.com/en/research\\_data/Research\\_Reports/DMA-docs/comparison-equating-methods.pdf](http://www.eqao.com/en/research_data/Research_Reports/DMA-docs/comparison-equating-methods.pdf)

Petersen, N. S., Kolen, M. J., & Hoover, H. D. (1989). Scaling, norming and equating. In R. L. Linn (Ed.), *Educational Measurement* (3<sup>rd</sup> ed., pp. 221-262). New York: Macmillan.

Pommerich, M., Dorans, N. J. (2004). Linking scores via concordance: Introduction to the special issue. *Applied Psychological Measurement*, 28(4), 216-218.

Powers, S., Turhan, A., & Binici, S. (2012). Population invariance of vertical scaling results. Paper presented at the annual conference of the National Council of Measurement in Education, Vancouver, BC.

Radwan, N., & Xu, Y. (2012). Comparison of the performance of Ontario students on the OSSLT/TPCL and PISA 2009 reading assessment. *EQAO Research*. Retrieved from [http://www.eqao.com/en/research\\_data/Research\\_Reports/DMA-docs/comparison-OSSLT-PISA-2009.pdf](http://www.eqao.com/en/research_data/Research_Reports/DMA-docs/comparison-OSSLT-PISA-2009.pdf)

Reckase, M. D. (2000). Study of best practices for vertical scaling and standard setting with recommendations for FCAT 2.0. Retrieved from <http://www.fldoe.org/core/fileparse.php/5663/urlt/0086369-studybestpracticesverticalscalingstandardsetting.pdf>

Ricker, K. L., & von Davier, A. A. (December 2007). *The impact of anchor test length on equating results in a nonequivalent groups design*. Retrieved from <https://www.ets.org/Media/Research/pdf/RR-07-44.pdf>

Rosenbaum, P. R., & Rubin, D. B. (1983). The central role of the propensity score in observational studies for causal effects. *Biometrika*, 70, 41–55.

- Rudner, L. (2010). Implementing the Graduate Management Admission Test computerized adaptive test. In W. van der Linden & C. Glas (Eds.), *Handbook for test developers* (p. 181-223). Mahwah, NJ: Springer.
- Samejima, F. (1969). *Estimation of latent ability using a response pattern of graded scores* (Psychometric Monograph No. 17). Iowa City, IA: Psychometric Society.
- Schneider, D., & Dorans, N. J. (1999). Concordance between SAT I and ACT scores for individual students. *Research Notes*. Retrieved from <http://research.collegeboard.org/sites/default/files/publications/2012/7/researchnote-1999-7-concordance-sat-act-students.pdf>
- Seitz, P., Chu, M-W., Fung, K., Latifi, S. M. F. (2013, June). The CERA graduate debate: Provincial testing in Canada: Yes or No? No. Paper presented at the annual meeting of Canadian Society for the Study of Education, Victoria, BC, Canada
- Shepard, L. A. (2000). The role of assessment in a learning culture. *Educational Researcher*, 29(7), 4-14. Retrieved from <http://nepc.colorado.edu/files/TheRoleofAssessmentinaLearningCulture.pdf>
- Stocking, M. L., & Lord, F. M. (1982). Developing a common metric in item response theory. *ETS Research Report Series*, 1982, i-29. doi:10.1002/j.2333-8504.1982.tb01311.x
- Striethold, R., & Rosén, M. (2016). Linking large-scale reading assessments: Measuring international trends over 40 years. *Measurement: Interdisciplinary Research and Perspectives*, 14(1), 1-26.

- Supovitz, J. (2009). Can high-stakes testing leverage educational improvement? Prospects from the last decade of testing and accountability reform. *Journal of Educational Change*, 10(1), 211-227. Doi: 10.1007/s10833-009-9105-2
- Thorndike, R. M. (2005). *Measurement and evaluation in psychology and education* (7<sup>th</sup> ed.). New Jersey: Pearson Education Inc.
- Westat (2016). Sampling in PISA. Document presented at the First Meeting of PISA 2018 National Project Mangers meeting. Retrieved from <https://www.oecd.org/pisa/pisaproducts/SAMPLING-IN-PISA.pdf>
- Traub, R. E. (1993). On the equivalence of the traits assessed by multiple-choice and constructed-response tests. In R. E. Bennett & W.C. Ward (Eds.), *Construction versus choice in cognitive measurement* (pp. 29-44). Hillsdale, NJ: Lawrence Erlbaum Associates, Inc.
- Yang, W-L., & Houang, R. T. (1996). *The effect of anchor length and equating method on the accuracy of test equating: Comparisons of linear and IRT-based equating using an anchor-item design*. Retrieved from <http://files.eric.ed.gov/fulltext/ED401308.pdf>
- Yan, M. W. & Fitzpatrick, A. R. (2006). Item Response Theory. *Educational Measurement* (4<sup>th</sup> ed.).
- Yin, P., Brennan, R. L., & Kolen, M. J. (2004). Concordance between ACT and ITED scores from different populations. *Applied Psychological Measurement*, 28(4), 274-289.
- Zeng, L. (1995). The optimal degree of smoothing in equipercentile equating with post-smoothing. *Applied Psychological Measurement*, 19(2), 177-190.
- Zimowski, M. F., Muraki, E., Mislevy, R. J., & Bock, R. D. (1996). *BILOG-MG*. [Computer software]. Chicago, IL: Scientific Software International Inc.

## Appendix A

### PISA 2015 Science Domain

Table A.1

*Four Aspects of the Scientific Literacy Assessment Framework for PISA 2015*

---

<u>Aspect</u>	<u>Definition</u>
Contexts	Personal, local/national and global issues, both current and historical, which demand some understanding of Science and technology.
Knowledge	An understanding of the major facts, concepts and explanatory theories that form the basis of scientific knowledge. Such knowledge includes knowledge of both the natural world and technological artefacts (content knowledge), knowledge of how such ideas are produced (procedural knowledge), and an understanding of the underlying rationale for these procedures and the justification for their use (epistemic knowledge).
Competencies	The ability to explain phenomena scientifically, evaluate and design scientific enquiry, and interpret data and evidence scientifically.
Attitudes	A set of attitudes towards Science indicated by an interest in Science and technology, valuing scientific approaches to enquiry where appropriate, and a perception and awareness of environmental issues.

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*Note.* Adapted from *PISA 2015 Assessment and Analytical Framework: Science, Reading, Mathematic, Financial Literacy and Collaborative Problem Solving*, by OECD, p.25.

Table A.2

*Distribution of PISA 2015 Science Items by Competency*

<u>Competency</u>	<u>Percentage of total items</u>
Explain phenomena scientifically	40-50
Evaluate and design scientific enquiry	20-30
Interpret data and evidence scientifically	30-40

*Note.* Reprinted from *PISA 2015 Assessment and Analytical Framework: Science, Reading, Mathematic, Financial Literacy and Collaborative Problem Solving*, by OECD, p.28.

Table A.3

*Distribution of PISA 2015 Science Items by Type of Knowledge and by Content (System)*

<u>Knowledge types</u>	<u>Systems</u>			<u>Total over systems</u>
	<u>Physical</u>	<u>Living</u>	<u>Earth and Space</u>	
Content	20-24	20-24	14-18	54-66
Procedural	7-11	7-11	5-9	19-31
Epistemic	4-8	4-8	2-6	10-22
Total over knowledge types	36	36	28	100

*Note.* Adapted from *PISA 2015 Assessment and Analytical Framework: Science, Reading, Mathematic, Financial Literacy and Collaborative Problem Solving*, by OECD, p.31.




Figure A.1

Example PISA 2015 Science Items: Smoking - Question 1 and Associated Framework

**PISA 2015**    Unit Name: **SMOKING**

---

**Question 1/9**




John and Rose are researching cigarette smoking for a school project. Read John's research on the right. Then respond to the question below. Select **two** reasons from the list below that suggest why cigarette companies could claim there was **no** evidence that tar from cigarette smoke caused cancer in humans.

<input type="checkbox"/> Humans are immune to tar
<input type="checkbox"/> Experiments were carried out with mice
<input type="checkbox"/> Chemicals from smoking decreased the effects of tar
<input type="checkbox"/> Humans may react differently from mice
<input type="checkbox"/> Filter-tip cigarettes remove all tar from smoke

*John's research*

In the 1950s research studies found that tar from cigarette smoke caused cancer in mice. Tobacco companies claimed there was no evidence that smoking caused cancer in humans. They also began to produce filter-tip cigarettes.



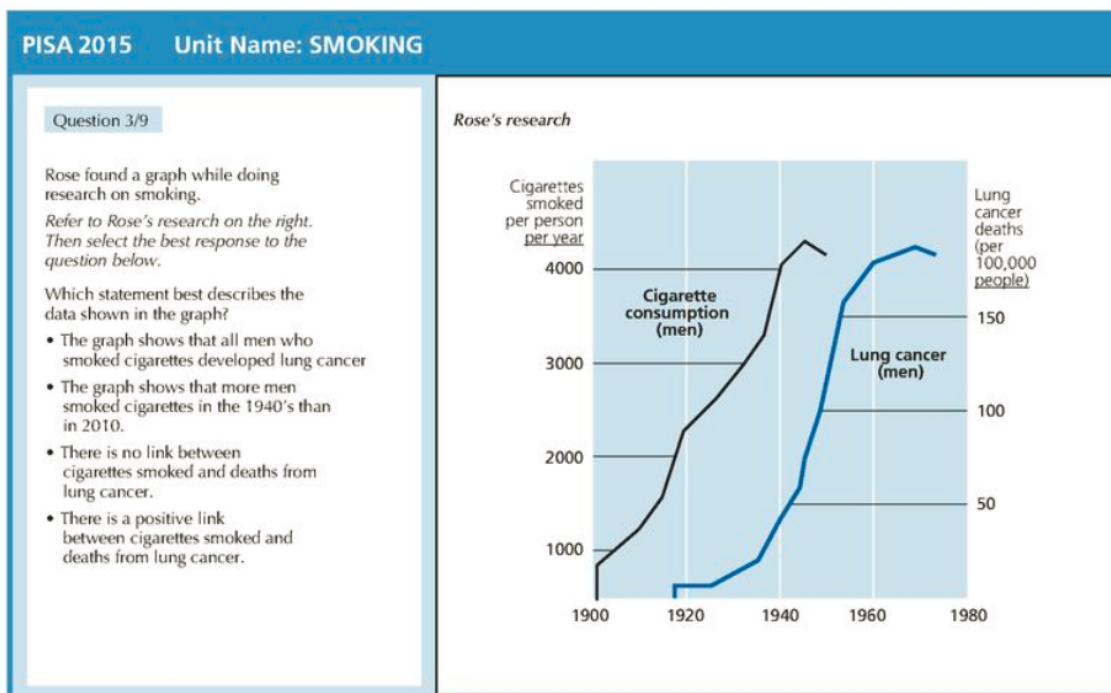
Note. Reprinted from *PISA 2015 Assessment and Analytical Framework: Science, Reading, Mathematic, Financial Literacy and Collaborative Problem Solving*, by OECD, p.35.

<u>Framework categories</u>	<u>2015 Framework</u>
Knowledge type	Content
Competency	Explaining phenomena scientifically
Context	Health and disease, local and national
Cognitive demand	Medium

Note. Adapted from *PISA 2015 Assessment and Analytical Framework: Science, Reading, Mathematic, Financial Literacy and Collaborative Problem Solving*, by OECD, p.36.

Figure A.2

Example PISA 2015 Science Items: Smoking – Question 2 and Associated Framework



Note. Reprinted from *PISA 2015 Assessment and Analytical Framework: Science, Reading, Mathematic, Financial Literacy and Collaborative Problem Solving*, by OECD, p.36.

<u>Framework categories</u>	<u>2015 Framework</u>
Knowledge type	Content
Competency	Interpret data and evidence scientifically
Context	Health and disease, local and national
Cognitive demand	Medium

Note. Adapted from *PISA 2015 Assessment and Analytical Framework: Science, Reading, Mathematic, Financial Literacy and Collaborative Problem Solving*, by OECD, p.37.

Table A.4

*PISA 2015 Science Proficiency Levels*

Level	Description
6	<p>Students at Level 6 of the PISA science assessment are able to successfully complete the most difficult PISA items. At Level 6, students can:</p> <ul style="list-style-type: none"> <li>• draw on a range of interrelated scientific ideas and concepts from the physical, life, Earth, and space sciences, link different information sources and representations, and move flexibly among them;</li> <li>• use content, procedural, and epistemic knowledge to offer explanatory hypotheses of novel scientific phenomena, events, and processes or to make predictions; • discriminate between relevant and irrelevant information and draw on knowledge external to the normal school curriculum when interpreting data and evidence;</li> <li>• distinguish between arguments that are based on scientific evidence and theory and those based on other considerations; and</li> <li>• evaluate competing designs of complex experiments, field studies, or simulations and justify their choices</li> </ul>
5	<p>At Level 5, students can:</p> <ul style="list-style-type: none"> <li>• use abstract scientific ideas or concepts to explain unfamiliar and more complex phenomena, events, and processes involving multiple causal links;</li> <li>• apply more sophisticated epistemic knowledge to evaluate alternative experimental designs and justify their choices and use theoretical knowledge to interpret information or make predictions; and</li> <li>• evaluate ways of exploring a given question scientifically and identify limitations in interpretations of data sets, including sources and the effects of uncertainty in scientific data.</li> </ul>
4	<p>At Level 4, students can:</p> <ul style="list-style-type: none"> <li>• use more complex or more abstract content knowledge, which is either provided or recalled, to construct explanations of more complex or less familiar events and processes;</li> <li>• conduct experiments involving two or more independent variables in a constrained context;</li> <li>• justify an experimental design, drawing on elements of procedural and epistemic knowledge; and</li> <li>• interpret data drawn from a moderately complex data set or less familiar context, draw appropriate conclusions that go beyond the data, and provide justifications for their choices.</li> </ul>
3	<p>At Level 3, students can:</p> <ul style="list-style-type: none"> <li>• draw upon moderately complex content knowledge to identify or construct explanations of familiar phenomena;</li> <li>• construct explanations with relevant cueing or support in less familiar or more complex situations;</li> <li>• draw on elements of procedural or epistemic knowledge to carry out a simple experiment in a constrained context; and</li> <li>• distinguish between</li> </ul>
2	<p>Level 2 is considered the baseline level of science proficiency that is required to participate fully in modern society. At Level 2, students can:</p> <ul style="list-style-type: none"> <li>• draw on everyday content knowledge and basic procedural knowledge to identify an appropriate scientific explanation, interpret data, and identify the question being addressed in a simple experimental design;</li> <li>• use basic or everyday scientific knowledge to identify a valid conclusion from a simple data set; and</li> </ul>

	<ul style="list-style-type: none"> <li>• demonstrate basic epistemic knowledge by being able to identify questions that could be investigated scientifically</li> </ul>
1a	<p>At Level 1a, students can:</p> <ul style="list-style-type: none"> <li>• use basic or everyday content and procedural knowledge to recognize or identify explanations of simple scientific phenomenon;</li> <li>• undertake structured scientific enquiries with no more than two variables with support;</li> <li>• identify simple causal or correlational relationships and interpret graphical and visual data that require a low level of cognitive demand; and</li> <li>• select the best</li> </ul>
1b	<p>At Level 1b, students can:</p> <ul style="list-style-type: none"> <li>• use basic or everyday scientific knowledge to recognize aspects of familiar or simple phenomenon; and</li> <li>• identify simple patterns in data, recognize basic scientific terms, and follow explicit instructions to carry out a scientific procedure.</li> </ul>

*Note.* From *Measuring up: Canadian Results of the OECD PISA Study: The Performance of Canada's Youth in Science, Reading and Mathematics – 2015 First Results of Canadians Aged 15*, by O'Grady et al. (2016), p.17.

## Appendix B

### PISA 2012 Mathematics Domain

Table B.1

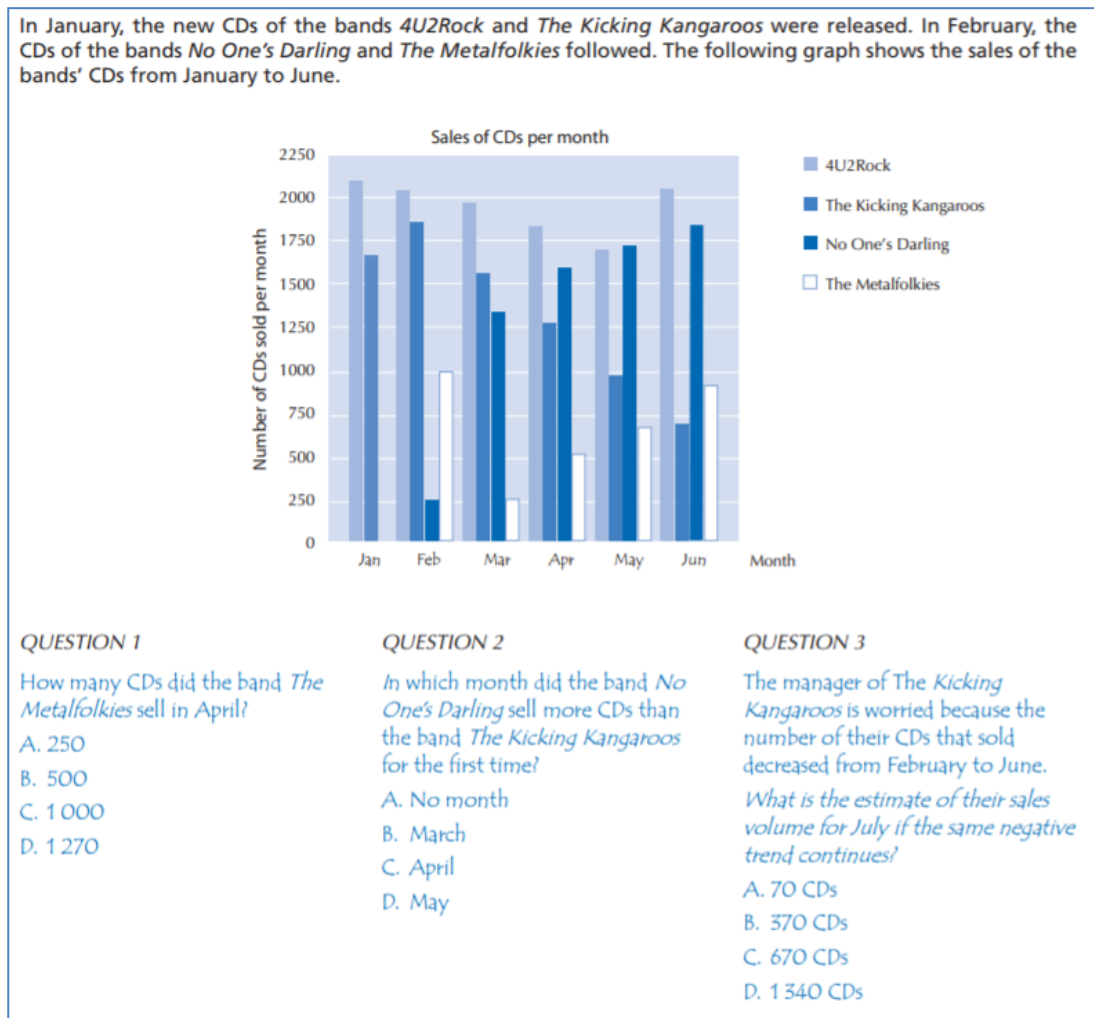
*Distribution of Score Points in PISA 2012 Mathematics by Categories*

<u>Process Category</u>	<u>Percentage of score points</u>
Formulating situations mathematically	~ 25
Employing mathematical concepts, facts, procedures and reasoning	~ 50
Interpreting, applying and evaluating mathematical outcomes	~ 25
TOTAL	100
<u>Content Category</u>	
<u>Content Category</u>	<u>Percentage of score points</u>
Change and relationships	~ 25
Space and shape	~ 25
Quantity	~ 25
Uncertainty and data	~ 25
TOTAL	100
<u>Context Category</u>	
<u>Context Category</u>	<u>Percentage of score points</u>
Personal	~ 25
Occupational	~ 25
Societal	~ 25
Scientific	~ 25
TOTAL	100

*Note.* Adapted from *PISA 2012 Assessment and Analytical Framework: Mathematics, Reading, Science, Problem Solving and Financial Literacy*, by OECD, p.38-39.

Figure B.1

Example PISA 2012 Mathematics Items: Charts



Note. Reprinted from *PISA 2012 Assessment and Analytical Framework: Mathematics, Reading, Science, Problem Solving and Financial Literacy*, by OECD, p.46.

Table B.2

*PISA 2003-2009 Mathematics Proficiency Levels*

Level	Description
6	<p>Students at Level 6 of the PISA mathematics assessment are able to successfully complete the most difficult PISA items.</p> <p>At Level 6, students can:</p> <ul style="list-style-type: none"> <li>• conceptualize, generalize and use information based on their investigations and modeling of complex problem situations, use their knowledge in relatively non-standard contexts. link different information sources and representations and move flexibly among them.</li> <li>• demonstrate advanced mathematical thinking and reasoning and apply this insight and understanding, along with a mastery of symbolic and formal mathematical operations and relationships, to develop new approaches and strategies for addressing novel situations.</li> <li>• reflect on their actions, and formulate and precisely communicate their actions and reflections regarding their findings, interpretations and arguments, as well as explain why they were applied to the original situation.</li> </ul>
5	<p>At Level 5, students can:</p> <ul style="list-style-type: none"> <li>• develop and work with models for complex situations, identifying constraints and specifying assumptions.</li> <li>• select, compare and evaluate appropriate problem-solving strategies for dealing with complex problems related to these models.</li> <li>• work strategically using broad, well-developed thinking and reasoning skills, appropriate linked representations, symbolic and formal characterisations, and insights pertaining to these situations.</li> <li>• begin to reflect on their work and formulate and communicate their interpretations and reasoning.</li> </ul>
4	<p>At Level 4, students can:</p> <ul style="list-style-type: none"> <li>• work effectively with explicit models on complex, concrete situations that may involve constraints or call for making assumptions.</li> <li>• select and integrate different representations, including symbolic representations, linking them directly to aspects of real-world situations.</li> <li>• use their limited range of skills and reason with some insight, in straightforward contexts.</li> <li>• construct and communicate explanations and</li> </ul>
3	<p>At Level 3, students can:</p> <ul style="list-style-type: none"> <li>• execute clearly described procedures, including those that require sequential decisions. Their interpretations are sufficiently sound to be the basis for building a simple model or for selecting and applying simple problem-solving strategies.</li> <li>• interpret and use representations based on different information sources and reason directly from them.</li> <li>• demonstrate some ability to handle percentages, fractions, and decimal numbers, and to work with proportional relationships.</li> <li>• provide solutions reflecting that they have engaged in basic interpretation and reasoning.</li> </ul>
2	<p>At Level 2, students can:</p> <ul style="list-style-type: none"> <li>• interpret and recognize situations in contexts that require no more than direct inference.</li> <li>• extract relevant information from a single source and make use of a single representational mode.</li> <li>• employ basic algorithms, formulae, procedures, or conventions to solve problems involving whole numbers.</li> <li>• make literal interpretations of the results.</li> </ul>

	Level 2 is considered the baseline level of mathematical proficiency that is required to participate fully in modern society.
1	At Level 1, students can: <ul style="list-style-type: none"><li>• answer questions involving familiar contexts where all relevant information is present and the questions are clearly defined.</li><li>• identify information and carry out routine procedures according to direct instructions in explicit situations.</li><li>• perform actions that are almost always obvious and follow immediately from the given stimuli.</li></ul>

*Note.* From *Measuring up: Canadian Results of the OECD PISA Study: The Performance of Canada's Youth in Mathematics, Reading and Science – 2012 First Results for Canadian Aged 15*, by Brochu et al. (2013), p.24.



## Appendix C

### Pan-Canadian Assessment Program (PCAP)

Table C.1

#### *Example Questionnaire Items of PCAP 2013 – Student Questionnaire*

1. Please rate your general interest in the following:

	No interest	Slight interest	Some interest	A lot of interest
(a) Conducting your own experiments	①	②	③	④
(b) Understanding what happens in the world around you	①	②	③	④
(c) Understanding science in your daily life	①	②	③	④
(d) Using evidence for explanations	①	②	③	④
(e) Telling others about what you learned in science	①	②	③	④
(f) Making careful observations either in class or outside school	①	②	③	④
(g) Wanting to know more about science	①	②	③	④

2. If I do well in Science, it is because of...

	Strongly disagree	Disagree	Agree	Strongly agree
(a) natural ability.	①	②	③	④
(b) good luck.	①	②	③	④
(c) working especially hard.	①	②	③	④
(d) the course being taught well.	①	②	③	④
(e) encouragement from my parents/guardians.	①	②	③	④
(f) encouragement from my friends.	①	②	③	④
(g) help with homework outside of school.	①	②	③	④

*Note.* Items reprinted from *PCAP-2013 Student Questionnaire*, by CMEC, p.43. Retrieved from <https://www.cmec.ca/docs/pcap/pcap2013/Student%20Questionnaire.pdf>

Table C.2

*Example Questionnaire Items of PCAP 2013 – Teacher Questionnaire*

1. In the past five years, how many days (or equivalent) of professional development related to the teacher of Science have you participated in?
  - a) None
  - b) 1 to 2 days
  - c) 3 to 4 days
  - d) 5 to 8 days
  - e) 9 or more days
  
2. On average, how much time PER WEEK do you expect the students in the Science class selected for PCAP-2013 to spend on Science homework?
  - a) I do not assign Science homework.
  - b) Less than 30 minutes
  - c) 30 minutes to one hour
  - d) One to two hours
  - e) More than two hours
  
3. In the Science class selected for PCAP-2013, how often are students assessed in the following ways?

	Never	Rarely	Sometimes	Often
(a) Common school-wide tests or assessments	①	②	③	④
(b) Teacher-developed classroom tests	①	②	③	④
(c) Student portfolios and/or journals	①	②	③	④
(d) Individual student assignments/projects	①	②	③	④
(e) Group assignments/projects	①	②	③	④
(f) Homework	①	②	③	④
(g) Performance assessment (e.g., design a research project, an investigation or a machine)	①	②	③	④

*Note.* Items adapted from *PCAP-2013 Teacher Questionnaire*, by CMEC, p.2-12. Retrieved from <https://www.cmec.ca/docs/pcap/pcap2013/Teacher%20Questionnaire.pdf>

Table C.3

*Example Questionnaire Items of PCAP 2013 – School Questionnaire*

1. To what extent are Science teachers in your school monitored for the following practices?

	Not at all	A little	More than a little	A lot
(a) Teaching of all the curriculum outcomes	①	②	③	④
(b) Use of instructional strategies consistent with the curriculum	①	②	③	④
(c) Use of assessment strategies consistent with the curriculum	①	②	③	④
(d) Use of resources that support the curriculum	①	②	③	④

2. How often does each of the following occur in your school?

	Never	Rarely	Sometimes	Often
(a) Professional development for science teachers	①	②	③	④
(b) Parent/guardian information nights specific to science	①	②	③	④
(c) Monitoring the implementation of science curricula	①	②	③	④
(d) Events such as science fairs	①	②	③	④
(e) Displays about science	①	②	③	④
(f) Recognition of student achievement in science	①	②	③	④

*Note.* Items adapted from *PCAP-2013 School Questionnaire*, by CMEC, p.2-12. Retrieved from <https://www.cmec.ca/docs/pcap/pcap2013/School%20Questionnaire.pdf>

Table C.4

*PCAP 2013 Science Performance Levels***Level 4 (Scores of 655 and above)**

Students at performance level 4 communicate an understanding of complex and abstract concepts in Science. They can identify the scientific components of many complex life situations; apply both scientific concepts and knowledge about Science to these situations; and can compare, select, and evaluate appropriate scientific evidence for responding to life situations. Students at this level can use well-developed inquiry abilities, link knowledge appropriately, and bring critical insights to these situations. They can construct evidence-based explanations and arguments based on their critical analysis. They can combine information from several sources to solve problems and draw conclusions, and can provide written explanations to communicate scientific knowledge.

**Level 3 – Above Expected Level (Scores between 516 and 654)**

Students at performance level 3 demonstrate understanding of concepts related to Science principles. They demonstrate some Science inquiry skills, and combine and interpret information from various types of diagrams, graphs, and tables; select relevant information, analyze, and draw conclusions; and provide explanations conveying scientific knowledge. At this level, students can work effectively with situations and issues that may involve explicit phenomena requiring them to make inferences about the role of Science. They can select and integrate explanations from different disciplines of Science and link those explanations directly to aspects of life situations. Students at this level can reflect on their actions, and they can communicate decisions using scientific knowledge and evidence.

**Level 2 – At Expected Level (Scores between 379 and 515)**

Students at performance level 2 recognize and apply their understanding of basic scientific knowledge in various contexts. They interpret information from tables, graphs, and pictorial diagrams; draw conclusions; and communicate their understanding through brief descriptive responses. At this level, students can identify clearly described scientific issues in a range of contexts. They can select facts and knowledge to explain phenomena and apply simple models or inquiry strategies. They can interpret and use scientific concepts from different disciplines and can apply them directly. They can also develop short communications using facts and make decisions based on scientific knowledge.

**Level 1 – Below Expected Level (Scores of 378 and less)**

Students at performance level 1 may recognize some basic Science facts and may be able to interpret simple pictorial diagrams, complete simple tables, and apply basic knowledge to practical situations. At this level, they may be able to provide possible explanations in familiar contexts or draw conclusions based on simple investigations. They may be capable of direct reasoning and making literal interpretations of the results of scientific inquiry.

*Note.* Adapted from *PCAP 2013 Report on the Pan-Canadian Assessment of Science, Reading, and Mathematics*, by O’Grady and Houme (2014), p.15.

Table C.5

*PCAP 2010 Mathematics Performance Levels***Level 4 (Scores of 669 and above)**

Students at this level were able to solve problems that require complex reasoning at the analysis and synthesis levels. Solutions clearly show a mastery of the appropriate conceptual and procedural knowledge necessary to solve complex problems. Students were able to generalize a pattern and write the rule algebraically. They were also able to explain or justify their solutions and strategies clearly. At this level, students could solve problems that were generally of high cognitive demand and determined to be difficult questions.

**Level 3 – Above Expected Level (Scores between 514 and 668)**

Students at this level were able to apply what they know to new situations, identify hidden assumptions, and distinguish between relevant and irrelevant information needed to solve a problem. They had to select appropriate procedures or strategies to solve a problem and sometimes had to apply skills from different domains to solve problems. Students at this level were able to represent a problem in different ways and use informal reasoning to solve problems. At this level students could solve problems that were mostly of moderate to high cognitive demand.

**Level 2 – At Expected Level (Scores between 358 and 513)**

Students at this level were required to recall facts, definitions, or terms and carry out previously learned procedures such as performing one or more operations, employing formulae, evaluating a variable expression, retrieving information from a table or a graph and applying it to solve a problem. Typically, students at this level were able to identify a simple number of geometric patterns. Students were able to solve problems that were clearly defined as to what was required, with no extraneous information or hidden assumptions. At this level, students could solve problems that were mostly of low and moderate cognitive demand.

**Level 1 – Below Expected Level (Scores of 357 and less)**

Students at this level were able to solve problems at a low cognitive level that were determined to be fairly easy questions. Typically, at this level, students were able to retrieve information from a graph or solve previously learned routine problems. At this level, students could solve problems that required mostly recall and recognition.

*Note.* Adapted from *PCAP 2010 Report on the Pan-Canadian Assessment of Mathematics, Science, and Reading* by CMEC (2011), p.19-20.

## Appendix D

### Examples of Command Files, Input Files, and Control Files

#### Example 1: IRTPRO Command for Concurrent Calibration – Mathematics as major domains

**Project:**

Name = MATH\_PCAP2010\_PISA2012\_CC;

**Data:**

File = .\MATH\_PCAP2010\_PISA2012\_CC.ssig;

**Analysis:**

Name = Test1;

Mode = Calibration;

**Title:**

Calibration MATH - PCAP 2010 PISA 2012

**Comments:**

**Estimation:**

Method = BAEM;

E-Step = 500, 1e-005;

SE = S-EM;

M-Step = 50, 1e-006;

Quadrature = 49, 6;

SEM = 0.001;

SS = 1e-005;

**Saves:**

PRM, INF

**Scoring:**

Mean = 0;

SD = 1;

**Miscellaneous:**

Decimal = 2;

Processors = 8;

Print StdRes, CTLD, Loadings, P-Nums, Diagnostic;

Min Exp = 1;

**Groups:**

Group (TRIMMED to only the first 10 items are shown - items names are blocked with \*\*\*\*\* to protect PCAP item security):

Dimension = 1;

Items = \*\*\*\*\*;

Codes(\*\*\*\*\* ) = 0(0), 1(1);

Codes(\*\*\*\*\* ) = 0(0), 1(1), 2(2);

```

Codes(*****) = 0(0), 1(1), 2(2);
Codes(*****) = 0(0), 1(1), 2(2);
Codes(*****) = 0(0), 1(1), 2(2), 3(3);
Codes(*****) = 0(0), 1(1);
Codes(*****) = 0(0), 1(1), 2(2);
Codes(*****) = 0(0), 1(1), 2(2);
Codes(*****) = 0(0), 1(1);
Codes(*****) = 0(0), 1(1), 2(2);

```

```

.....
Model(*****) = 2PL;
Model(*****) = GP Credit;
GammaMatrix(*****) = Trend;
Model(*****) = GP Credit;
GammaMatrix(*****) = Trend;
Model(*****) = GP Credit;
GammaMatrix(*****) = Trend;
Model(*****) = GP Credit;
GammaMatrix(*****) = Trend;
Model(*****) = 2PL;

```

```

.....
Mean = 0.0;
Covariance = 1.0;

```

Constraints:

### Example 2: IRTPRO Command for Scoring – Mathematics as major domains

Project:

```
Name = MATH_PCAP2010_PISA2012_Score;
```

Data:

```
File = .\MATH_PCAP2010_PISA2012_Score.ssig;
```

Analysis:

```
Name = Test1;
Mode = Scoring;
```

Title:

```
Scoring -MATH PCAP 2010 PISA 2012
```

Comments:

Estimation:

```
Method = BAEM;
E-Step = 500, 1e-005;
SE = S-EM;
M-Step = 50, 1e-006;
Quadrature = 49, 6;
SEM = 0.001;
SS = 1e-005;
```

**Scoring:**

```
ID = STUDENTID;
Pattern = EAP;
Score Persons;
Mean = 500;
SD = 100;
```

**Miscellaneous:**

```
Decimal = 2;
Processors = 4;
Print CTLD, P-Nums, Diagnostic;
Min Exp = 1;
```

**Groups:**

Group (TRIMMED to only the first 10 items are shown - items names are blocked with \*\*\*\*\* to protect PCAP item security):

```
Dimension = 1;
Items = ***** , ***** , ***** , ***** , ***** , ***** , ***** , ***** ,
***** , *****
```

```
.....
Codes(***** ) = 0(0) , 1(1);
Codes(***** ) = 0(0) , 1(1) , 2(2);
Codes(***** ) = 0(0) , 1(1) , 2(2);
Codes(***** ) = 0(0) , 1(1) , 2(2);
Codes(***** ) = 0(0) , 1(1) , 2(2) , 3(3);
Codes(***** ) = 0(0) , 1(1);
Codes(***** ) = 0(0) , 1(1) , 2(2);
Codes(***** ) = 0(0) , 1(1) , 2(2);
Codes(***** ) = 0(0) , 1(1);
Codes(***** ) = 0(0) , 1(1) , 2(2);
```

```
.....
Model(***** ) = 2PL;
Model(***** ) = GP Credit;
GammaMatrix(***** ) = Trend;
Model(***** ) = GP Credit;
GammaMatrix(***** ) = Trend;
Model(***** ) = GP Credit;
GammaMatrix(***** ) = Trend;
Model(***** ) = GP Credit;
GammaMatrix(***** ) = Trend;
Model(***** ) = 2PL;
```

```
.....
Mean = 0.00000;
Covariance = 1.00000;
```

**Constraints:**

StartValues (TRIMMED to only the first 10 items are shown - items names are blocked with \*\*\*\*\* to protect PCAP item security):



```

(*****, Slope[0]) = 1.33614;
(*****, Intercept[0]) = -0.11270;
(*****, Slope[0]) = 0.99628;
(*****, Gamma[0]) = -0.16567;
(*****, Gamma[1]) = -0.78983;
(*****, Slope[0]) = 0.71982;
(*****, Gamma[0]) = 0.28068;
(*****, Gamma[1]) = -0.29713;
(*****, Slope[0]) = 0.85915;
(*****, Gamma[0]) = -0.60302;
(*****, Gamma[1]) = -1.93400;
(*****, Slope[0]) = 0.64509;
(*****, Gamma[0]) = 0.27920;
(*****, Gamma[1]) = -2.75083;
(*****, Gamma[2]) = -0.37343;
(*****, Slope[0]) = 1.47344;
(*****, Intercept[0]) = -0.76836;
(*****, Slope[0]) = 1.34486;
(*****, Gamma[0]) = -0.43655;
(*****, Gamma[1]) = -0.56344;
(*****, Slope[0]) = 1.09406;
(*****, Gamma[0]) = -1.08181;
(*****, Gamma[1]) = -0.56840;
(*****, Slope[0]) = 0.69112;
(*****, Intercept[0]) = 1.42596;
(*****, Slope[0]) = 0.88240;
(*****, Gamma[0]) = 0.58434;
(*****, Gamma[1]) = -1.00024;

```

**Example 3: RAGE-RGEQUATE Input file for Equipercentile method – Mathematics as major domains (Trimmed to first 100 score points)**

```

195.4 1 0 195.4
212.2 1 0 212.2
214.8 1 0 214.8
215.2 1 0 215.2
222.1 1 17 222.1
222.4 1 2 222.4
225.4 1 0 225.4
226.4 1 0 226.4
227.7 1 0 227.7
228.6 1 0 228.6
229.6 1 0 229.6
230.4 1 0 230.4
231.3 1 0 231.3
232.5 1 0 232.5
232.6 1 0 232.6
233.8 1 0 233.8
235.4 1 0 235.4
236.4 1 0 236.4

```

239.6 1	0	239.6
242.2 1	0	242.2
244.3 1	0	244.3
244.5 1	0	244.5
246 1	0	246
247.2 1	0	247.2
248.7 1	0	248.7
251.3 1	0	251.3
251.9 1	0	251.9
253 1	1	253
253.1 1	0	253.1
253.6 1	0	253.6
254.1 1	0	254.1
254.3 1	0	254.3
254.8 1	0	254.8
258.8 1	0	258.8
259.7 1	0	259.7
259.8 1	0	259.8
260.4 1	0	260.4
260.6 1	1	260.6
262.7 1	0	262.7
265.9 1	0	265.9
266 1	0	266
267.3 1	1	267.3
268.4 2	0	268.4
269 1	1	269
270.2 1	1	270.2
271 2	0	271
271.4 1	0	271.4
272.1 1	0	272.1
273.7 1	0	273.7
274.1 2	24	274.1
275.1 2	3	275.1
275.2 1	0	275.2
275.9 1	0	275.9
276.5 1	1	276.5
277.5 4	0	277.5
277.9 1	0	277.9
278.2 1	0	278.2
279.9 3	1	279.9
280.3 1	1	280.3
280.6 1	0	280.6
280.9 1	2	280.9
281.3 1	0	281.3
281.4 4	2	281.4
283.1 1	1	283.1
283.7 1	0	283.7
283.9 1	16	283.9
284.2 1	1	284.2
284.5 1	0	284.5
284.6 1	2	284.6
286 1	2	286

286.1 1	3	286.1
286.4 1	1	286.4
287 1	1	287
287.5 1	0	287.5
288.3 1	1	288.3
288.4 1	0	288.4
288.6 1	2	288.6
288.7 1	1	288.7
289.3 2	1	289.3
290.2 1	3	290.2
290.8 1	20	290.8
291.6 2	0	291.6
292.3 1	1	292.3
293.1 2	7	293.1
293.6 1	1	293.6
293.8 1	0	293.8
293.9 1	2	293.9
294.6 1	0	294.6
294.7 1	1	294.7
294.8 1	1	294.8
294.9 2	0	294.9
295.5 1	8	295.5
296.2 1	1	296.2
296.5 2	0	296.5
296.6 1	0	296.6
297.3 1	0	297.3
297.5 1	2	297.5
298.5 1	0	298.5
299.3 1	0	299.3
300.1 1	3	300.1

**Example 4: Control file read in RAGE-RGEQUATE for Equipercntile method**

The screenshot shows a software window titled "Rage-Rgequate 3.15". It contains several input fields and buttons:

- Input File:** input\_MATH\_MAJOR.dat
- Output File:** output\_MATH\_MAJOR.dat
- Postsmooth Limit:** 0.005
- Parameters:** A row of seven input boxes containing 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, and 0.50.
- New Form Degree:** A row of eight input boxes containing 1, 2, 4, 6, 8, 12, and two empty boxes.
- Old Form Degree:** A row of eight input boxes containing 1, 2, 3, and five empty boxes.
- Columns:** Three input boxes containing 2, 3, and 4.
- Scale:** Three input boxes containing 195.40, 828.40, and 0.10.
- Buttons:** "Read from File", "OK", and "Quit" are located at the bottom of the window.

## Appendix E

## Score Conversion Tables from Concurrent Calibrations – Mathematics as Major Domains

Table E.1

Original PISA scores (PV1) to new score

PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score
195.44	237.14	272.09	302.12	293.04	302.24	307.22	299.61
200.51	344.57	272.56	282.27	293.12	262.47	307.84	303.81
212.19	292.35	273.03	341.46	293.59	384.61	307.92	308.90
214.84	202.84	274.12	282.31	293.82	306.98	308.00	292.35
215.23	214.28	275.13	302.24	293.90	264.80	308.08	315.45
219.82	255.48	275.21	312.25	294.60	311.46	308.16	313.18
222.08	228.32	275.91	302.24	294.68	285.46	308.54	240.86
225.35	283.84	276.45	294.25	294.76	292.35	308.62	313.30
226.37	266.42	276.76	243.91	294.91	339.10	308.70	299.92
227.69	251.09	277.39	344.89	295.54	357.75	308.86	315.45
228.63	315.45	277.47	224.38	295.69	257.17	309.17	340.15
229.64	225.56	277.54	214.28	296.16	324.79	309.32	270.46
230.42	202.84	277.93	257.10	296.47	277.89	309.48	274.68
231.27	234.39	278.24	311.39	296.63	255.67	310.18	337.67
232.52	315.45	279.88	231.84	297.09	292.35	310.26	311.08
232.60	269.15	280.27	252.86	297.25	237.84	310.34	352.29
235.40	233.77	280.58	307.26	297.48	290.82	310.49	269.15
236.42	315.45	280.89	237.84	297.80	347.54	310.96	302.24
239.61	257.17	281.28	259.54	297.95	347.60	311.04	267.58
244.52	197.17	281.36	302.24	298.50	232.56	311.12	322.83
246.00	235.09	281.44	302.96	299.28	276.58	311.19	370.77
247.16	294.45	282.29	365.42	300.13	306.86	311.27	363.57
248.72	308.13	282.92	302.93	300.52	280.77	311.50	313.69
251.29	318.79	283.07	331.56	300.91	276.38	311.89	344.57
251.92	292.35	283.70	329.47	301.61	317.81	311.97	349.23
253.01	202.84	283.85	331.56	301.69	301.78	312.05	278.61
253.08	249.67	284.48	302.94	302.16	343.69	312.28	344.15
253.63	237.84	284.55	267.58	302.31	331.30	312.44	295.46
254.10	228.02	285.33	324.80	302.39	307.55	312.52	271.02
254.33	315.45	286.11	315.63	302.47	350.08	312.75	341.46
254.80	228.32	286.35	257.17	302.94	354.46	312.83	389.08
254.95	203.90	286.97	292.35	303.17	291.32	312.98	266.89
256.90	225.56	287.51	326.39	303.25	327.69	313.06	284.22
258.77	199.70	287.90	237.84	303.48	344.40	313.22	281.03
259.71	292.35	288.29	240.86	303.64	305.31	313.37	292.74
259.78	315.45	288.37	302.24	303.95	338.97	313.45	329.68
260.64	334.65	288.53	299.61	304.11	322.83	313.53	315.45
262.67	320.86	288.60	370.77	304.49	346.75	314.00	289.85
263.99	279.69	288.68	346.59	304.73	262.28	314.08	290.31
265.00	199.70	289.23	256.36	304.81	337.46	314.15	243.91
265.16	299.61	289.31	357.75	304.88	338.25	314.85	308.28
265.94	331.56	289.93	253.41	305.20	311.40	314.93	345.57
266.02	353.58	290.01	221.04	305.51	302.24	315.01	376.10
266.64	352.99	290.79	306.58	305.59	342.38	315.17	355.75
267.26	314.47	291.56	353.14	306.36	227.41	315.32	294.44
268.35	378.91	291.64	299.61	306.44	336.34	315.56	240.86
268.97	302.84	292.03	255.42	306.75	223.62	315.63	293.17
271.00	224.99	292.34	244.05	307.14	368.82	315.71	288.83

PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score
315.87	376.25	325.92	299.61	335.89	399.74	344.45	408.87
316.18	365.32	325.99	315.45	335.96	267.72	344.53	253.68
316.41	302.24	326.54	302.24	336.04	405.97	344.61	292.35
316.49	262.47	326.62	317.91	336.59	348.79	344.69	341.46
316.57	362.10	326.69	450.77	336.66	302.24	344.77	325.26
317.19	237.49	326.77	372.27	336.74	319.26	344.92	318.14
317.27	295.81	326.85	316.15	336.82	322.83	345.00	397.98
317.42	353.58	327.01	248.69	336.90	441.60	345.16	324.74
317.50	257.17	327.08	311.27	336.98	345.42	345.23	336.45
317.66	310.86	327.32	287.08	337.37	247.96	345.31	307.88
317.89	295.46	327.47	292.35	337.44	273.83	345.39	415.89
317.97	335.59	327.78	290.66	337.52	300.23	345.54	277.89
318.05	237.56	328.10	290.22	337.99	318.86	345.70	336.44
318.20	315.45	328.17	327.37	338.22	321.75	346.09	255.07
318.52	346.79	328.33	341.46	338.30	337.54	346.17	322.83
318.75	307.00	328.56	361.29	338.38	329.68	346.25	315.45
318.83	267.41	328.64	308.64	338.46	427.88	346.32	294.58
318.90	364.70	328.80	354.96	338.53	372.63	346.71	333.20
318.98	389.97	328.88	335.59	338.77	283.55	346.79	317.04
319.53	233.77	329.03	358.34	338.92	349.98	346.87	246.85
319.61	335.39	329.42	334.09	339.00	259.97	347.26	265.44
319.68	376.58	329.65	315.01	339.08	252.19	347.57	258.09
320.31	366.17	329.73	273.73	339.16	380.29	347.65	333.53
320.38	341.43	329.81	325.55	339.24	393.43	347.73	328.83
320.62	346.53	329.97	359.58	339.47	306.31	347.80	315.45
320.77	248.91	330.12	220.03	339.55	398.85	347.88	329.24
321.16	268.35	330.36	314.20	339.78	323.95	348.04	315.91
321.24	322.83	330.43	331.73	339.86	266.84	348.27	268.79
321.32	315.45	330.51	376.58	340.01	377.72	348.35	262.40
321.40	325.63	330.67	378.91	340.09	347.06	348.43	368.11
321.55	310.43	330.74	326.51	340.48	267.06	348.50	292.35
321.63	288.33	330.90	276.47	340.56	373.24	348.66	293.96
321.86	292.54	331.13	312.90	340.64	267.41	348.82	344.52
321.94	343.64	331.21	302.24	340.79	348.93	348.89	334.72
322.02	292.35	331.37	338.25	340.87	273.25	349.05	393.94
322.18	324.67	331.52	250.93	341.10	311.38	349.13	280.37
322.64	298.31	331.68	302.76	341.26	362.48	349.21	286.56
322.72	289.05	331.99	302.24	341.34	322.31	349.28	357.75
322.80	292.35	332.07	298.34	341.42	307.00	349.36	370.77
322.88	341.46	332.15	331.56	341.65	312.84	349.44	290.87
323.34	384.48	332.22	349.23	341.81	235.09	349.91	350.57
323.50	328.50	332.85	324.23	342.12	208.80	349.98	351.75
323.58	299.61	332.93	292.35	342.20	309.57	350.06	364.70
323.66	341.46	333.08	308.05	342.27	299.61	350.14	315.45
323.73	335.45	333.63	345.56	342.43	356.74	350.22	358.39
323.97	282.18	333.70	356.85	342.58	282.21	350.45	288.56
324.20	347.52	333.78	403.12	342.66	327.39	350.61	336.24
324.28	316.30	333.86	299.94	342.82	300.27	350.69	302.24
324.36	292.35	334.09	366.76	342.90	309.19	350.76	336.52
324.51	347.74	334.33	256.12	342.97	241.25	350.84	338.25
324.67	235.09	334.41	328.25	343.21	387.82	350.92	372.00
324.90	322.93	334.48	343.77	343.36	360.73	351.00	344.77
324.98	361.11	334.56	347.60	343.68	369.32	351.15	283.71
325.06	294.79	334.64	314.18	343.75	305.80	351.23	306.40
325.14	330.78	335.11	395.12	343.83	374.08	351.39	357.51
325.29	373.71	335.18	293.14	343.91	428.04	351.46	332.84
325.45	294.15	335.26	381.49	343.99	301.07	351.54	361.71
325.76	302.37	335.34	315.45	344.22	368.64	351.62	362.42
325.84	280.53	335.81	316.79	344.38	289.05	351.70	408.38

PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score
351.93	312.55	358.79	379.49	365.72	471.02	372.57	322.58
352.01	337.48	359.02	284.08	366.03	434.29	372.65	352.29
352.24	302.24	359.18	373.75	366.19	389.79	372.73	341.46
352.32	333.43	359.25	306.05	366.26	284.18	372.81	294.77
352.40	352.29	359.33	345.97	366.34	330.59	372.96	322.99
352.48	372.27	359.41	299.61	366.42	349.28	373.04	342.33
352.79	354.00	359.49	315.45	366.50	372.00	373.20	400.96
352.94	348.94	359.57	378.70	366.58	330.11	373.27	342.83
353.02	302.79	359.72	305.13	366.73	357.53	373.35	320.84
353.10	319.52	359.80	305.50	366.81	292.63	373.43	385.95
353.18	409.80	359.95	281.22	366.97	320.82	373.51	423.81
353.33	333.22	360.03	337.67	367.04	356.10	373.59	343.04
353.49	307.58	360.11	308.00	367.12	349.22	373.74	335.09
353.57	370.97	360.34	339.10	367.20	331.56	373.98	349.35
353.72	289.83	360.50	294.77	367.51	296.08	374.05	332.84
353.80	300.89	360.58	441.67	367.59	316.98	374.13	311.45
353.88	350.08	360.73	375.75	367.74	314.20	374.21	400.42
353.96	292.35	360.81	321.73	367.82	350.63	374.29	353.58
354.11	347.66	360.89	333.41	367.90	341.08	374.37	357.54
354.27	289.12	360.97	331.56	367.98	331.56	374.52	297.30
354.58	271.69	361.12	281.31	368.06	403.36	374.60	389.21
354.66	298.17	361.28	322.66	368.13	322.71	374.83	302.24
354.74	336.34	361.36	328.46	368.29	311.85	374.91	347.09
354.81	437.52	361.59	302.24	368.37	362.30	374.99	322.83
354.89	290.87	361.67	270.51	368.52	307.53	375.07	404.44
355.05	265.52	361.75	369.61	368.60	317.38	375.14	290.13
355.13	365.88	361.90	352.41	368.68	358.93	375.30	324.17
355.28	330.31	362.06	286.85	368.76	334.02	375.38	360.09
355.36	264.28	362.14	368.32	368.83	444.85	375.53	381.14
355.44	301.36	362.29	270.60	369.15	320.80	375.61	302.24
355.51	369.76	362.37	251.57	369.30	321.88	375.69	276.81
355.59	388.30	362.45	339.28	369.38	318.39	375.77	338.25
355.67	318.77	362.53	362.10	369.46	332.55	375.92	301.07
355.83	253.96	362.60	427.88	369.54	343.77	376.08	295.47
355.90	353.49	362.84	319.51	369.61	341.46	376.16	382.14
356.06	327.08	362.91	324.21	369.69	341.90	376.31	375.73
356.14	295.44	363.15	302.24	369.85	339.16	376.39	386.86
356.22	316.63	363.23	325.88	369.93	331.90	376.47	360.82
356.29	328.83	363.30	331.56	370.08	417.79	376.55	331.56
356.45	333.31	363.38	377.72	370.16	374.85	376.62	427.88
356.61	346.60	363.46	316.33	370.24	279.40	376.70	317.20
356.68	292.13	363.69	197.17	370.31	299.61	376.86	303.43
356.84	381.03	363.85	354.08	370.39	370.77	376.94	407.01
356.92	302.24	363.93	394.08	370.70	355.98	377.09	384.15
356.99	307.71	364.01	314.31	370.94	335.59	377.17	323.43
357.07	407.00	364.08	371.96	371.02	311.45	377.25	308.02
357.15	347.60	364.39	390.62	371.09	370.67	377.33	299.61
357.23	312.09	364.47	358.15	371.25	309.83	377.40	403.57
357.38	354.09	364.63	396.51	371.41	394.84	377.48	393.23
357.46	330.18	364.71	333.86	371.64	341.07	377.64	326.33
357.70	337.67	364.78	312.74	371.72	284.96	377.71	355.00
357.77	312.99	364.86	348.62	371.79	319.96	377.95	338.10
357.85	348.62	364.94	415.50	371.87	362.42	378.03	367.15
357.93	368.53	365.02	294.58	371.95	347.60	378.10	292.35
358.01	352.40	365.25	359.26	372.03	356.06	378.18	370.77
358.24	380.86	365.41	379.87	372.18	317.79	378.26	295.31
358.47	302.24	365.49	297.80	372.26	324.70	378.42	283.46
358.55	299.17	365.56	287.68	372.42	319.86	378.49	328.96
358.63	394.53	365.64	338.25	372.50	271.12	378.65	355.68

PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score
378.73	272.55	384.65	354.13	390.88	353.73	396.72	313.83
378.81	341.26	384.88	385.23	390.96	331.84	396.80	398.55
378.88	356.85	384.96	302.24	391.11	382.00	396.88	449.13
378.96	341.46	385.04	359.34	391.19	333.89	396.95	367.17
379.04	349.13	385.11	357.75	391.27	371.69	397.11	406.27
379.19	388.82	385.19	422.35	391.35	292.35	397.19	366.70
379.27	306.43	385.27	348.40	391.42	348.93	397.34	354.95
379.43	375.23	385.43	356.39	391.50	311.42	397.42	287.56
379.51	302.24	385.50	373.84	391.66	362.11	397.50	338.89
379.58	338.76	385.66	319.70	391.74	376.13	397.58	322.83
379.66	378.95	385.74	337.67	391.89	340.91	397.66	315.45
379.74	398.19	385.82	303.30	391.97	325.48	397.73	375.45
379.82	317.20	385.89	357.75	392.05	337.39	397.97	306.21
379.97	342.18	385.97	399.53	392.12	364.70	398.12	377.01
380.21	340.36	386.28	356.15	392.20	372.00	398.20	358.38
380.29	343.44	386.44	386.54	392.28	406.76	398.28	332.78
380.36	282.94	386.52	320.90	392.44	330.98	398.36	322.83
380.44	362.10	386.59	303.89	392.51	341.30	398.43	341.46
380.52	372.00	386.67	356.85	392.67	307.53	398.51	371.41
380.75	349.95	386.75	347.60	392.75	282.68	398.67	371.77
380.83	355.46	386.83	286.71	392.83	327.03	398.75	315.72
380.99	355.32	386.98	337.14	392.90	344.57	398.90	396.07
381.06	311.15	387.06	332.90	392.98	372.27	398.98	302.24
381.14	298.41	387.22	386.70	393.06	349.91	399.06	390.84
381.22	292.35	387.30	331.25	393.22	415.73	399.14	349.28
381.30	341.46	387.37	351.31	393.29	311.60	399.21	315.45
381.38	344.91	387.45	364.52	393.45	350.71	399.29	374.01
381.53	318.42	387.53	315.45	393.53	339.67	399.45	347.38
381.61	338.40	387.61	372.06	393.60	366.67	399.52	369.38
381.77	335.73	387.76	368.38	393.68	383.02	399.68	400.16
381.84	351.81	387.84	390.00	393.76	414.16	399.76	397.24
381.92	295.52	388.07	343.44	393.84	383.42	399.84	310.84
382.00	349.28	388.15	288.02	394.07	329.45	399.91	338.25
382.08	341.46	388.23	331.56	394.23	314.65	399.99	341.46
382.15	339.10	388.31	408.38	394.31	337.67	400.07	318.75
382.31	297.30	388.39	355.49	394.38	326.75	400.23	347.05
382.39	288.80	388.54	326.23	394.46	328.83	400.30	382.43
382.54	408.72	388.62	385.28	394.54	411.84	400.46	292.97
382.62	330.32	388.78	427.45	394.62	363.44	400.54	299.28
382.70	301.57	388.85	337.18	394.77	322.80	400.62	303.82
382.78	331.30	388.93	241.89	394.85	377.67	400.69	354.79
382.86	370.77	389.01	348.75	395.01	428.65	400.77	423.16
382.93	287.89	389.09	347.60	395.08	285.51	400.85	381.97
383.09	324.46	389.17	361.66	395.16	387.77	401.00	378.61
383.17	383.99	389.32	318.09	395.24	395.42	401.08	359.64
383.32	445.59	389.55	380.52	395.32	419.09	401.24	360.36
383.40	311.64	389.63	336.53	395.40	351.22	401.32	354.35
383.48	340.61	389.71	309.48	395.55	336.05	401.39	299.27
383.56	371.63	389.79	292.35	395.63	368.80	401.47	357.75
383.63	426.65	389.87	388.30	395.79	373.27	401.55	341.46
383.71	386.86	389.94	384.35	395.86	299.08	401.63	365.44
383.87	316.61	390.10	343.42	395.94	293.21	401.78	380.08
383.95	357.25	390.18	401.58	396.02	292.35	401.86	338.38
384.10	337.73	390.33	315.02	396.10	315.45	402.02	328.43
384.18	300.69	390.41	302.24	396.18	315.61	402.10	336.50
384.26	290.64	390.49	325.28	396.33	419.75	402.17	306.43
384.34	385.23	390.57	394.73	396.41	356.65	402.25	292.35
384.41	341.46	390.65	370.77	396.56	356.45	402.33	381.83
384.49	250.93	390.72	366.75	396.64	355.60	402.56	365.04



PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score
402.64	346.30	408.79	407.00	414.71	364.70	420.71	379.49
402.80	364.48	408.87	385.70	414.79	366.71	420.79	355.74
402.87	356.83	409.03	330.74	415.03	361.40	420.87	330.16
402.95	305.41	409.11	370.22	415.10	415.99	420.95	348.75
403.03	387.28	409.18	336.96	415.26	408.66	421.02	547.94
403.11	370.77	409.26	362.42	415.34	333.97	421.10	374.85
403.19	391.75	409.34	372.00	415.42	347.34	421.26	388.69
403.34	358.74	409.42	352.80	415.49	331.56	421.34	386.47
403.42	374.96	409.57	388.69	415.57	315.45	421.49	366.07
403.58	311.92	409.65	373.71	415.65	358.89	421.57	343.44
403.65	315.49	409.81	375.99	415.80	364.13	421.65	377.39
403.73	311.77	409.88	371.07	415.88	335.81	421.72	400.42
403.81	417.27	409.96	317.62	416.04	321.11	421.80	394.55
403.89	414.22	410.04	431.10	416.12	381.97	421.88	346.15
403.96	366.75	410.12	480.90	416.19	324.06	422.04	368.65
404.12	356.82	410.20	320.43	416.27	322.83	422.11	389.23
404.20	330.90	410.35	368.87	416.35	372.00	422.27	411.49
404.35	363.66	410.43	332.88	416.43	331.66	422.35	366.17
404.43	343.44	410.59	346.97	416.58	335.69	422.43	347.93
404.51	329.31	410.66	336.32	416.66	403.86	422.50	338.25
404.59	364.70	410.74	361.10	416.82	391.81	422.58	315.45
404.67	377.46	410.82	338.25	416.90	371.04	422.66	333.20
404.74	342.06	410.90	381.62	416.97	351.45	422.82	360.79
404.90	371.01	410.98	373.09	417.05	322.83	422.89	381.19
405.13	302.60	411.13	340.98	417.13	368.53	423.05	376.72
405.21	372.96	411.21	416.91	417.21	402.42	423.13	361.87
405.29	342.87	411.36	398.11	417.36	375.87	423.20	373.28
405.44	409.51	411.44	300.33	417.44	365.76	423.28	379.09
405.52	324.03	411.52	285.75	417.60	377.85	423.36	482.07
405.76	365.34	411.60	357.75	417.67	295.51	423.59	394.84
405.91	304.15	411.68	359.67	417.75	372.83	423.67	410.86
405.99	336.55	411.75	298.24	417.83	358.34	423.83	379.75
406.07	297.05	411.91	356.92	417.91	368.53	423.91	345.93
406.15	292.35	412.14	419.61	417.99	359.63	423.98	297.75
406.22	372.27	412.22	343.44	418.14	418.93	424.06	330.78
406.30	372.40	412.30	357.53	418.22	345.50	424.14	370.77
406.46	386.79	412.38	338.25	418.38	350.28	424.22	376.96
406.54	366.99	412.46	370.77	418.45	302.24	424.37	402.06
406.69	370.16	412.53	347.00	418.53	336.67	424.45	363.63
406.77	310.62	412.69	379.31	418.61	352.29	424.61	297.26
406.85	326.83	412.77	358.98	418.69	341.46	424.68	377.58
406.92	357.75	412.92	383.40	418.76	390.35	424.76	332.59
407.00	359.67	413.00	306.05	418.92	417.63	424.84	388.77
407.08	345.24	413.08	329.26	419.00	414.21	424.92	388.49
407.24	326.60	413.16	357.75	419.15	402.69	425.00	375.05
407.31	373.61	413.23	417.77	419.23	334.25	425.15	344.87
407.47	286.57	413.47	327.34	419.31	360.69	425.23	331.67
407.55	324.40	413.55	341.92	419.39	373.90	425.39	391.39
407.63	327.59	413.70	362.76	419.54	337.73	425.46	337.67
407.70	372.09	413.78	336.67	419.70	373.64	425.54	345.78
407.78	349.23	413.86	361.01	419.78	362.71	425.62	358.34
408.02	346.09	413.94	421.49	419.93	307.53	425.70	388.30
408.09	370.20	414.01	423.16	420.01	353.01	425.78	366.86
408.25	371.99	414.09	319.92	420.09	300.42	425.93	411.84
408.33	367.26	414.25	339.15	420.17	357.86	426.01	400.20
408.40	303.54	414.32	381.08	420.24	368.53	426.16	380.05
408.48	299.61	414.48	366.91	420.32	326.19	426.24	351.58
408.56	349.23	414.56	356.05	420.48	359.56	426.32	346.37
408.64	363.58	414.64	360.08	420.56	354.03	426.40	338.25

PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score
426.48	348.93	432.40	365.12	438.08	398.83	443.85	359.83
426.55	429.53	432.47	348.93	438.16	407.09	443.92	364.48
426.71	405.37	432.55	330.12	438.24	398.25	444.08	411.50
426.79	402.38	432.63	388.34	438.39	388.17	444.16	342.90
426.94	378.55	432.71	377.72	438.47	361.57	444.24	370.39
427.02	363.80	432.79	425.62	438.63	359.22	444.31	322.83
427.10	356.29	432.94	364.11	438.71	362.34	444.39	389.97
427.18	292.35	433.02	380.76	438.78	364.79	444.47	333.81
427.26	341.46	433.17	387.82	438.86	338.25	444.63	375.24
427.33	358.93	433.25	372.96	438.94	370.77	444.70	399.98
427.49	372.92	433.33	362.85	439.02	369.22	444.86	366.96
427.72	384.68	433.41	392.15	439.17	390.85	444.94	395.20
427.80	348.07	433.49	349.23	439.25	423.20	445.01	370.34
427.88	387.10	433.56	351.31	439.41	330.02	445.09	380.12
427.96	399.13	433.72	335.81	439.48	368.90	445.17	370.77
428.03	341.46	433.80	343.38	439.56	405.68	445.25	316.67
428.11	382.90	433.95	395.27	439.64	412.44	445.40	394.71
428.27	377.79	434.03	378.01	439.72	381.83	445.48	381.80
428.35	382.10	434.11	359.35	439.80	367.40	445.64	394.08
428.50	389.58	434.19	413.41	439.95	405.29	445.72	369.31
428.58	347.75	434.27	398.44	440.03	342.11	445.79	420.13
428.66	363.77	434.34	401.14	440.19	432.43	445.87	373.90
428.74	364.70	434.50	409.46	440.26	356.62	445.95	353.58
428.81	372.00	434.58	407.40	440.34	340.27	446.03	385.07
428.89	370.60	434.73	343.55	440.42	376.22	446.18	426.82
429.05	415.72	434.81	302.24	440.50	372.00	446.26	373.56
429.12	390.34	434.89	371.36	440.57	402.30	446.42	320.42
429.28	416.09	434.97	376.22	440.73	395.87	446.49	368.90
429.36	371.21	435.04	381.83	440.81	415.48	446.57	355.89
429.44	319.73	435.12	337.73	440.96	400.23	446.65	364.70
429.51	343.77	435.28	405.72	441.04	372.96	446.73	407.09
429.59	348.93	435.36	371.98	441.12	403.75	446.81	398.31
429.67	357.05	435.51	349.83	441.20	358.34	446.96	413.08
429.83	373.89	435.59	376.33	441.28	366.71	447.04	392.54
429.90	390.43	435.67	319.49	441.35	356.34	447.20	370.76
430.06	410.80	435.75	328.83	441.51	393.54	447.27	388.83
430.14	343.44	435.82	359.67	441.59	359.00	447.35	368.44
430.22	368.98	435.90	351.87	441.74	364.49	447.43	364.70
430.29	334.02	436.06	359.71	441.82	376.63	447.51	377.46
430.37	429.31	436.13	407.14	441.90	373.36	447.59	355.92
430.45	380.42	436.29	374.05	441.98	358.34	447.74	355.32
430.60	310.62	436.37	375.77	442.05	388.49	447.82	384.42
430.68	395.41	436.45	362.75	442.13	365.44	447.97	413.34
430.84	389.79	436.52	395.85	442.29	404.51	448.05	399.53
430.92	341.80	436.60	359.67	442.37	427.84	448.13	389.06
430.99	341.90	436.68	357.28	442.52	397.27	448.21	388.34
431.07	364.70	436.84	390.91	442.60	395.20	448.29	370.77
431.15	376.25	436.91	422.53	442.68	402.20	448.36	382.64
431.23	352.10	437.07	437.61	442.76	372.09	448.52	414.32
431.38	338.46	437.15	337.67	442.83	370.77	448.60	408.69
431.46	360.26	437.23	300.95	442.91	374.61	448.75	389.66
431.62	348.79	437.30	373.90	443.07	407.92	448.83	368.90
431.70	383.18	437.38	432.20	443.15	394.96	448.91	301.57
431.77	377.40	437.46	358.67	443.30	356.55	448.99	357.75
431.85	354.79	437.61	370.61	443.38	383.28	449.07	399.53
431.93	378.91	437.69	400.74	443.46	327.36	449.14	415.97
432.01	364.17	437.85	430.80	443.53	357.05	449.30	397.43
432.16	349.92	437.93	343.44	443.61	372.27	449.38	385.17
432.24	449.28	438.00	320.66	443.69	360.02	449.53	440.98

PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score
449.61	382.23	455.30	402.04	461.22	414.76	466.90	422.95
449.69	387.72	455.53	350.52	461.29	359.40	466.98	388.49
449.77	395.09	455.61	401.72	461.37	391.94	467.06	396.37
449.84	417.77	455.76	430.09	461.45	364.70	467.21	408.66
449.92	391.87	455.84	376.99	461.53	388.49	467.29	407.52
450.08	371.64	455.92	414.99	461.61	434.07	467.45	410.41
450.16	376.89	456.00	292.35	461.76	401.00	467.53	372.96
450.31	329.68	456.08	419.92	461.84	437.97	467.60	407.20
450.39	353.93	456.15	392.17	462.00	404.21	467.68	331.56
450.47	371.07	456.31	351.70	462.07	372.96	467.76	426.84
450.55	393.78	456.39	378.43	462.15	381.21	467.84	394.48
450.62	398.44	456.54	359.72	462.23	358.34	467.99	417.65
450.70	433.52	456.62	343.44	462.31	393.43	468.07	381.93
450.86	343.21	456.70	406.86	462.39	417.46	468.23	395.49
450.93	387.60	456.78	374.08	462.54	413.38	468.31	366.17
451.09	414.11	456.85	315.45	462.62	389.84	468.38	392.89
451.17	342.56	456.93	394.91	462.77	368.06	468.46	343.77
451.25	348.42	457.09	390.16	462.85	302.72	468.54	387.09
451.32	357.75	457.17	366.05	462.93	406.33	468.62	414.03
451.40	423.23	457.32	337.70	463.01	395.85	468.77	410.01
451.48	428.29	457.40	403.61	463.09	387.09	468.85	426.97
451.64	393.97	457.48	396.20	463.16	436.37	469.01	412.68
451.71	391.00	457.56	395.85	463.32	409.20	469.08	414.44
451.87	369.33	457.63	398.44	463.40	385.48	469.16	407.94
451.95	361.49	457.71	368.17	463.55	374.49	469.24	370.67
452.03	420.04	457.87	441.96	463.63	395.54	469.32	370.77
452.10	299.61	457.95	423.06	463.71	436.94	469.40	353.31
452.18	473.72	458.10	374.04	463.79	387.28	469.55	423.18
452.26	353.54	458.18	414.44	463.87	377.72	469.63	427.89
452.41	345.66	458.26	385.55	463.94	393.75	469.79	443.42
452.49	381.38	458.33	371.63	464.10	487.11	469.86	383.88
452.65	408.12	458.41	387.09	464.18	395.70	469.94	394.46
452.73	395.20	458.49	377.38	464.33	372.59	470.02	400.82
452.80	365.18	458.65	404.28	464.41	401.36	470.10	416.52
452.88	354.94	458.72	418.22	464.49	415.87	470.17	384.82
452.96	399.53	458.88	349.32	464.57	395.85	470.33	405.23
453.04	374.58	458.96	415.23	464.64	407.09	470.41	411.22
453.19	390.50	459.04	378.93	464.72	376.98	470.56	418.51
453.27	401.23	459.11	372.09	464.88	429.06	470.64	416.35
453.43	390.06	459.19	370.77	464.96	397.46	470.72	406.98
453.51	380.10	459.27	376.53	465.11	414.31	470.80	358.34
453.58	385.83	459.43	406.05	465.19	423.03	470.88	378.91
453.66	356.85	459.50	412.30	465.27	410.38	470.95	401.21
453.74	460.88	459.66	418.69	465.35	374.08	471.11	426.03
453.82	421.26	459.74	414.44	465.42	381.83	471.19	432.31
453.97	424.24	459.81	387.40	465.50	426.18	471.34	399.02
454.05	376.44	459.89	322.83	465.66	339.18	471.42	375.81
454.21	408.29	459.97	416.82	465.73	434.58	471.50	385.06
454.28	343.44	460.05	393.09	465.89	443.77	471.58	374.08
454.36	326.90	460.20	385.24	465.97	386.86	471.65	423.17
454.44	395.42	460.28	442.09	466.05	410.01	471.73	393.76
454.52	395.07	460.44	429.84	466.12	387.88	471.89	461.91
454.60	382.41	460.52	372.11	466.20	349.23	471.97	418.25
454.75	391.69	460.59	384.52	466.28	403.06	472.12	430.34
454.83	415.48	460.67	392.15	466.44	411.62	472.20	402.15
454.99	386.44	460.75	382.80	466.51	384.68	472.28	400.53
455.06	429.90	460.83	380.19	466.67	383.23	472.36	411.20
455.14	407.24	460.98	380.05	466.75	386.86	472.43	412.95
455.22	338.25	461.06	378.23	466.83	387.00	472.51	429.49

PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score
472.67	394.21	478.43	385.97	484.12	403.57	489.88	431.02
472.75	403.25	478.51	389.93	484.20	402.30	490.04	458.10
472.90	403.05	478.59	376.22	484.35	417.37	490.12	372.96
472.98	372.96	478.66	381.83	484.43	421.65	490.19	443.28
473.06	392.97	478.74	433.75	484.58	458.73	490.27	447.33
473.13	369.76	478.90	390.80	484.66	425.01	490.35	422.17
473.21	427.70	478.98	451.02	484.74	385.82	490.43	435.48
473.29	426.84	479.13	449.44	484.82	395.85	490.58	443.27
473.45	442.94	479.21	395.20	484.90	445.39	490.66	400.07
473.52	426.17	479.29	428.54	484.97	438.46	490.82	414.26
473.68	422.12	479.37	445.75	485.13	377.59	490.89	408.79
473.76	405.45	479.44	454.06	485.21	414.85	490.97	405.15
473.84	382.36	479.52	444.59	485.36	438.14	491.05	432.29
473.91	372.09	479.68	430.42	485.44	419.18	491.13	427.82
473.99	349.23	479.76	460.14	485.52	427.11	491.21	428.16
474.07	406.33	479.91	410.68	485.60	395.85	491.36	479.54
474.23	378.93	479.99	372.96	485.68	376.25	491.44	433.71
474.30	429.52	480.07	415.21	485.75	394.74	491.60	406.40
474.46	428.60	480.14	364.15	485.91	433.90	491.67	436.50
474.54	337.67	480.22	402.04	485.99	429.92	491.75	377.89
474.61	389.30	480.30	391.89	486.14	400.09	491.83	395.85
474.69	322.83	480.46	465.86	486.22	418.72	491.91	407.09
474.77	428.28	480.53	446.27	486.30	398.29	491.98	431.23
474.85	416.71	480.69	406.46	486.38	413.41	492.14	440.89
475.00	443.23	480.77	438.96	486.45	431.02	492.22	421.47
475.08	444.00	480.85	397.25	486.53	440.06	492.37	460.72
475.24	412.34	480.92	433.46	486.69	431.54	492.45	397.24
475.32	343.44	481.00	444.85	486.77	488.38	492.53	395.47
475.39	427.59	481.08	443.06	486.92	419.01	492.61	372.09
475.47	395.85	481.24	429.21	487.00	343.44	492.69	441.60
475.55	372.27	481.31	455.01	487.08	432.48	492.76	463.53
475.63	416.39	481.47	444.00	487.16	395.85	492.92	456.26
475.78	454.94	481.55	419.64	487.23	426.43	493.00	427.68
475.86	428.68	481.62	430.84	487.31	412.99	493.15	374.89
476.02	434.79	481.70	412.85	487.47	436.57	493.23	434.64
476.09	406.95	481.78	409.51	487.54	403.79	493.31	424.96
476.17	415.64	481.86	429.45	487.70	470.22	493.39	425.10
476.25	395.42	482.01	444.67	487.78	368.90	493.46	394.80
476.33	315.45	482.09	418.93	487.86	448.00	493.54	442.09
476.41	451.01	482.25	416.19	487.93	437.96	493.70	424.93
476.56	449.79	482.33	363.83	488.01	436.58	493.78	457.48
476.64	413.34	482.40	422.81	488.09	438.16	493.93	451.10
476.80	432.72	482.48	348.75	488.25	432.37	494.01	397.24
476.87	389.11	482.56	383.06	488.32	455.86	494.09	444.30
476.95	406.14	482.64	454.10	488.48	449.24	494.17	432.73
477.03	395.85	482.79	447.70	488.56	422.97	494.24	453.17
477.11	377.72	482.87	419.88	488.64	413.66	494.32	428.59
477.18	412.38	483.03	456.20	488.71	460.22	494.48	459.10
477.34	428.12	483.10	377.58	488.79	394.61	494.56	445.17
477.42	408.50	483.18	425.46	488.87	489.50	494.71	418.51
477.57	445.93	483.26	396.69	489.02	432.43	494.79	407.12
477.65	385.97	483.34	407.09	489.10	418.59	494.87	427.84
477.73	387.92	483.42	394.34	489.26	389.85	494.94	389.96
477.81	417.27	483.57	377.33	489.34	452.13	495.02	467.88
477.89	469.79	483.65	448.41	489.41	414.56	495.10	390.15
477.96	409.95	483.81	468.71	489.49	440.77	495.26	477.44
478.12	415.49	483.88	424.75	489.57	407.09	495.33	394.95
478.20	427.41	483.96	418.72	489.65	415.80	495.49	461.19
478.35	423.47	484.04	423.77	489.80	444.60	495.57	403.66

PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score
495.65	418.00	501.33	426.42	507.17	448.99	512.86	422.95
495.72	395.85	501.49	444.36	507.25	366.17	512.94	388.30
495.80	424.45	501.57	473.02	507.33	433.64	513.02	451.56
495.88	449.25	501.72	447.12	507.41	402.60	513.17	414.27
496.04	408.61	501.80	395.20	507.49	436.58	513.25	491.44
496.11	457.69	501.88	430.24	507.56	454.88	513.41	463.74
496.27	455.61	501.96	445.99	507.72	425.33	513.48	407.12
496.35	418.89	502.03	434.69	507.80	459.19	513.56	455.63
496.42	388.00	502.11	463.26	507.95	453.12	513.64	400.60
496.50	400.42	502.27	464.88	508.03	395.20	513.72	414.47
496.58	422.35	502.34	477.57	508.11	442.25	513.80	402.20
496.66	451.02	502.50	377.04	508.19	422.56	513.95	476.12
496.81	432.59	502.58	426.25	508.26	426.65	514.03	444.75
496.89	419.87	502.66	449.00	508.34	422.58	514.18	446.76
497.05	454.95	502.73	416.43	508.50	495.00	514.26	417.20
497.13	337.67	502.81	433.29	508.58	448.94	514.34	408.66
497.20	420.20	502.89	422.70	508.73	442.90	514.42	445.89
497.28	407.12	503.05	436.63	508.81	390.55	514.50	454.11
497.36	465.09	503.12	463.52	508.89	419.27	514.57	450.16
497.44	478.48	503.28	478.09	508.97	388.77	514.73	405.45
497.59	433.12	503.36	409.42	509.04	496.79	514.81	499.94
497.67	456.73	503.44	423.17	509.12	437.64	514.96	444.53
497.83	432.14	503.51	419.64	509.28	478.82	515.04	434.74
497.90	448.11	503.59	402.04	509.36	469.61	515.12	460.96
497.98	447.67	503.67	456.16	509.51	458.68	515.20	409.93
498.06	416.43	503.82	478.32	509.59	409.68	515.28	396.18
498.14	444.04	503.90	459.63	509.67	456.05	515.35	506.08
498.22	374.55	504.06	454.94	509.74	422.95	515.51	458.05
498.37	444.86	504.14	372.96	509.82	450.59	515.59	481.86
498.45	444.34	504.21	434.80	509.90	448.02	515.74	483.31
498.61	436.65	504.29	433.46	510.06	470.42	515.82	470.10
498.68	393.62	504.37	445.39	510.13	465.78	515.90	435.66
498.76	424.94	504.45	431.21	510.29	441.89	515.98	395.85
498.84	375.64	504.60	459.41	510.37	395.20	516.05	423.81
498.92	370.77	504.68	507.98	510.45	471.22	516.13	442.93
499.00	418.88	504.84	435.23	510.52	454.36	516.29	487.29
499.15	468.69	504.92	430.55	510.60	419.09	516.37	487.61
499.23	456.91	504.99	385.12	510.68	418.86	516.52	488.81
499.38	490.26	505.07	461.37	510.84	495.98	516.60	441.90
499.46	395.20	505.15	398.19	510.91	485.41	516.68	458.81
499.54	430.84	505.23	518.84	511.07	540.27	516.75	433.01
499.62	393.78	505.38	417.09	511.15	302.24	516.83	403.36
499.70	449.13	505.46	476.30	511.22	436.60	516.91	452.81
499.77	416.42	505.62	466.38	511.30	430.88	517.07	475.03
499.93	431.37	505.69	423.11	511.38	474.56	517.14	478.98
500.01	467.77	505.77	426.73	511.46	449.51	517.30	451.61
500.16	401.57	505.85	457.90	511.61	467.76	517.38	397.24
500.24	390.55	505.93	520.16	511.69	461.49	517.46	455.10
500.32	440.62	506.01	533.78	511.85	413.17	517.53	437.11
500.40	421.57	506.16	476.37	511.93	456.59	517.61	431.02
500.48	565.36	506.24	412.43	512.00	426.58	517.69	425.23
500.55	448.12	506.40	480.26	512.08	392.08	517.85	486.53
500.71	433.33	506.47	436.62	512.16	437.75	517.92	491.84
500.79	424.62	506.55	432.31	512.24	484.98	518.08	490.37
500.94	421.60	506.63	438.49	512.39	474.97	518.16	390.55
501.02	426.25	506.71	427.88	512.47	469.30	518.23	470.66
501.10	431.23	506.78	419.78	512.63	468.82	518.31	469.16
501.18	437.28	506.94	407.41	512.70	455.67	518.39	423.81
501.25	407.96	507.02	466.09	512.78	436.78	518.47	403.10

PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score
518.62	465.54	524.39	433.74	530.07	488.19	535.84	474.55
518.70	477.78	524.47	456.78	530.15	516.96	535.99	451.95
518.86	457.47	524.54	457.77	530.31	477.29	536.07	457.08
518.94	448.00	524.62	382.80	530.39	527.49	536.15	432.94
519.01	446.67	524.70	483.12	530.54	451.06	536.23	400.60
519.09	439.45	524.86	491.61	530.62	409.68	536.31	500.52
519.17	492.34	524.93	490.44	530.70	413.03	536.38	484.95
519.25	464.24	525.09	473.90	530.78	447.73	536.54	477.77
519.40	470.41	525.17	436.82	530.85	434.40	536.62	522.50
519.48	459.88	525.25	479.60	530.93	466.03	536.77	509.00
519.64	532.12	525.32	441.99	531.09	478.91	536.85	433.74
519.71	433.59	525.40	433.29	531.17	483.78	536.93	474.39
519.79	440.62	525.48	453.38	531.32	478.54	537.01	493.73
519.87	395.85	525.63	469.40	531.40	434.74	537.09	454.46
519.95	449.49	525.71	472.07	531.48	467.52	537.16	519.51
520.03	490.03	525.87	480.12	531.55	489.09	537.32	469.94
520.18	513.12	525.95	443.45	531.63	531.58	537.40	500.06
520.26	475.14	526.02	471.83	531.71	464.33	537.55	503.73
520.42	495.57	526.10	458.68	531.87	536.19	537.63	450.20
520.49	395.20	526.18	450.22	531.94	454.46	537.71	494.67
520.57	464.57	526.26	497.30	532.10	504.12	537.79	394.73
520.65	292.35	526.41	463.50	532.18	434.74	537.86	572.55
520.73	398.19	526.49	504.59	532.26	477.74	537.94	503.58
520.81	442.68	526.65	491.46	532.33	436.74	538.10	521.75
520.96	459.13	526.73	463.79	532.41	467.18	538.18	482.51
521.04	503.58	526.80	451.28	532.49	509.49	538.33	502.82
521.19	443.37	526.88	442.58	532.65	497.45	538.41	462.27
521.27	443.40	526.96	407.09	532.72	495.64	538.49	492.39
521.35	439.70	527.04	418.15	532.88	512.15	538.57	453.20
521.43	473.68	527.19	471.45	532.96	478.93	538.64	449.13
521.51	381.83	527.27	461.56	533.03	481.55	538.72	477.72
521.58	437.40	527.43	490.53	533.11	411.19	538.88	480.96
521.74	477.39	527.50	471.18	533.19	420.33	538.95	536.44
521.82	474.19	527.58	438.87	533.27	449.25	539.11	512.28
521.97	451.29	527.66	416.43	533.42	499.51	539.19	459.37
522.05	470.70	527.74	463.40	533.50	476.68	539.27	481.92
522.13	461.20	527.82	515.15	533.66	453.71	539.34	505.89
522.21	449.29	527.97	483.50	533.74	472.97	539.42	453.17
522.29	469.11	528.05	495.66	533.81	463.51	539.50	525.47
522.36	491.22	528.21	554.85	533.89	433.38	539.66	461.52
522.52	453.76	528.28	447.43	533.97	470.63	539.73	465.03
522.60	462.15	528.36	491.32	534.05	477.53	539.89	518.04
522.75	484.36	528.44	433.46	534.20	513.09	539.97	461.75
522.83	453.52	528.52	543.88	534.28	498.74	540.05	472.54
522.91	470.48	528.59	466.23	534.44	482.65	540.12	432.36
522.99	457.93	528.75	448.93	534.51	434.74	540.20	473.54
523.06	423.17	528.83	470.46	534.59	466.79	540.28	495.06
523.14	488.31	528.98	482.53	534.67	458.13	540.43	490.13
523.30	499.11	529.06	459.70	534.75	533.79	540.51	516.37
523.38	460.88	529.14	464.43	534.83	509.50	540.67	461.75
523.53	478.77	529.22	470.91	534.98	449.24	540.75	441.43
523.61	397.24	529.30	491.69	535.06	468.20	540.82	461.66
523.69	415.35	529.37	457.58	535.22	466.41	540.90	412.44
523.77	432.29	529.53	488.67	535.29	443.45	540.98	376.25
523.84	427.88	529.61	533.68	535.37	478.60	541.06	490.36
523.92	513.10	529.76	543.65	535.45	441.99	541.21	512.08
524.08	418.40	529.84	445.64	535.53	449.13	541.29	493.29
524.15	504.87	529.92	462.08	535.61	485.55	541.45	465.10
524.31	509.70	530.00	457.93	535.76	508.01	541.53	484.53

PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score
541.60	483.03	547.29	538.81	553.13	515.69	558.82	487.93
541.68	475.15	547.45	468.70	553.21	465.95	558.90	468.90
541.76	394.61	547.52	576.14	553.29	517.94	558.97	534.26
541.84	492.01	547.68	513.87	553.37	511.39	559.13	499.71
541.99	482.22	547.76	422.56	553.44	487.22	559.21	520.61
542.07	510.38	547.83	496.98	553.52	464.62	559.36	525.87
542.23	511.78	547.91	453.20	553.68	579.99	559.44	441.90
542.30	428.03	547.99	450.02	553.75	490.60	559.52	496.56
542.38	475.54	548.07	453.33	553.91	523.34	559.60	465.94
542.46	444.59	548.22	494.39	553.99	499.60	559.67	488.18
542.54	408.15	548.30	508.84	554.07	535.69	559.75	503.00
542.62	523.05	548.46	542.30	554.14	491.31	559.91	521.77
542.77	491.05	548.54	475.25	554.22	426.43	559.99	524.04
542.85	520.89	548.61	478.54	554.30	427.17	560.14	544.05
543.01	518.07	548.69	478.03	554.46	539.57	560.22	501.19
543.08	451.92	548.77	528.27	554.53	486.20	560.30	515.24
543.16	473.48	548.85	435.76	554.69	480.28	560.38	461.37
543.24	488.89	549.00	499.85	554.77	497.24	560.45	481.22
543.32	496.13	549.08	512.02	554.85	483.00	560.53	497.91
543.39	478.52	549.24	497.05	554.92	493.73	560.69	508.19
543.55	452.86	549.31	428.03	555.00	462.32	560.76	547.60
543.63	480.37	549.39	496.78	555.08	456.23	560.92	503.48
543.78	511.30	549.47	449.10	555.23	500.79	561.00	451.92
543.86	470.75	549.55	474.37	555.31	537.31	561.08	505.59
543.94	475.40	549.63	484.40	555.47	509.91	561.15	462.36
544.02	463.89	549.78	505.48	555.55	462.88	561.23	501.61
544.10	448.16	549.86	514.42	555.62	468.59	561.31	531.85
544.17	517.30	550.02	524.19	555.70	438.14	561.47	471.37
544.33	483.45	550.09	484.18	555.78	513.80	561.54	489.21
544.41	531.29	550.17	426.20	555.86	502.89	561.70	451.22
544.56	515.77	550.25	427.16	556.01	512.42	561.78	470.80
544.64	435.23	550.33	489.20	556.09	499.52	561.86	504.38
544.72	501.51	550.41	507.98	556.25	537.39	561.93	538.92
544.80	488.04	550.56	490.85	556.33	477.24	562.01	437.52
544.87	468.72	550.64	482.14	556.40	502.93	562.09	453.30
544.95	469.18	550.79	550.97	556.48	460.57	562.24	547.51
545.11	528.82	550.87	443.88	556.56	455.55	562.32	558.10
545.19	482.37	550.95	472.96	556.64	473.45	562.48	482.04
545.34	497.61	551.03	446.10	556.79	557.23	562.56	499.81
545.42	461.45	551.11	467.88	556.87	530.17	562.63	515.88
545.50	465.08	551.18	498.04	557.03	515.11	562.71	493.73
545.58	494.44	551.34	529.52	557.10	461.75	562.79	532.97
545.65	460.42	551.42	534.53	557.18	486.60	562.87	492.48
545.73	488.53	551.57	534.84	557.26	454.36	563.02	530.29
545.89	472.08	551.65	475.65	557.34	561.89	563.10	527.06
545.97	510.96	551.73	490.59	557.42	488.09	563.26	513.42
546.12	489.64	551.81	354.94	557.57	499.01	563.34	491.97
546.20	511.85	551.89	543.88	557.65	522.66	563.41	471.90
546.28	498.24	551.96	494.01	557.81	488.26	563.49	481.90
546.35	464.42	552.12	481.96	557.88	470.94	563.57	474.23
546.43	488.18	552.20	514.00	557.96	495.59	563.65	486.68
546.51	474.87	552.35	526.15	558.04	462.11	563.80	544.75
546.67	488.72	552.43	500.08	558.12	530.73	563.88	531.28
546.74	485.72	552.51	456.72	558.19	483.34	564.04	508.83
546.90	491.80	552.59	473.74	558.35	489.68	564.11	459.37
546.98	465.08	552.66	527.42	558.43	528.80	564.19	488.44
547.06	472.12	552.74	481.74	558.58	478.42	564.27	448.84
547.13	397.40	552.90	509.59	558.66	477.24	564.35	527.58
547.21	440.82	552.98	485.26	558.74	516.76	564.43	513.07

PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score
564.58	515.38	570.42	525.92	576.11	515.01	581.95	596.55
564.66	566.62	570.50	491.31	576.27	548.34	582.03	499.43
564.82	526.30	570.58	493.66	576.34	587.63	582.11	526.61
564.89	443.45	570.66	537.77	576.50	537.80	582.19	533.22
564.97	530.32	570.81	521.57	576.58	476.76	582.26	472.53
565.05	500.62	570.89	558.75	576.66	517.99	582.34	526.37
565.13	507.85	571.05	522.26	576.73	503.83	582.50	562.92
565.20	532.79	571.12	480.78	576.81	414.47	582.58	529.52
565.36	559.00	571.20	481.67	576.89	577.71	582.73	580.82
565.44	558.51	571.28	485.20	577.04	555.71	582.81	518.94
565.59	583.68	571.36	465.09	577.12	574.34	582.89	503.18
565.67	476.76	571.44	531.87	577.28	509.94	582.96	495.70
565.75	491.92	571.59	522.28	577.36	498.81	583.04	532.97
565.83	461.37	571.67	511.72	577.43	513.76	583.12	583.15
565.91	533.01	571.83	552.92	577.51	496.30	583.28	505.97
565.98	519.16	571.90	516.46	577.59	458.59	583.35	553.68
566.14	526.43	571.98	542.48	577.67	528.23	583.51	552.87
566.22	624.52	572.06	533.19	577.82	530.25	583.59	443.88
566.37	525.36	572.14	488.83	577.90	543.81	583.67	517.53
566.45	520.03	572.22	534.79	578.06	508.67	583.74	493.73
566.53	490.66	572.37	530.12	578.14	499.81	583.82	501.89
566.61	490.40	572.45	502.84	578.21	527.61	583.90	545.97
566.68	509.31	572.60	536.14	578.29	444.07	584.06	546.94
566.76	464.40	572.68	477.53	578.37	535.82	584.13	538.92
566.92	509.52	572.76	486.23	578.45	547.64	584.29	546.32
567.15	604.42	572.84	500.53	578.60	531.76	584.37	477.81
567.23	515.17	572.92	426.43	578.68	533.36	584.44	533.23
567.31	477.49	572.99	528.23	578.84	511.95	584.52	498.74
567.39	485.20	573.15	535.05	578.91	530.03	584.60	493.46
567.46	479.28	573.23	524.76	578.99	524.58	584.68	544.29
567.54	544.73	573.38	552.67	579.07	481.03	584.83	560.50
567.70	515.63	573.46	499.48	579.15	516.76	584.91	562.92
567.78	586.65	573.54	549.83	579.23	520.50	585.07	540.30
567.93	481.52	573.62	438.70	579.38	529.09	585.15	475.25
568.01	475.65	573.70	477.58	579.46	553.39	585.22	530.75
568.09	480.16	573.77	542.05	579.62	588.19	585.30	515.40
568.16	475.50	573.93	520.79	579.69	501.19	585.38	586.68
568.24	426.43	574.01	537.69	579.77	526.69	585.46	569.02
568.32	514.73	574.16	540.49	579.85	469.89	585.61	547.74
568.48	518.97	574.24	452.00	579.93	546.27	585.69	511.37
568.55	512.53	574.32	508.47	580.00	549.08	585.85	558.90
568.71	529.48	574.40	504.81	580.16	585.07	585.92	538.38
568.79	490.89	574.47	475.43	580.24	545.94	586.00	493.65
568.87	527.92	574.55	513.53	580.39	571.09	586.08	524.74
568.94	510.46	574.71	531.02	580.47	528.07	586.16	520.32
569.02	481.55	574.79	563.38	580.55	520.92	586.24	549.42
569.10	519.04	574.94	578.21	580.63	489.09	586.39	553.19
569.26	521.50	575.02	459.37	580.71	558.55	586.47	543.89
569.33	605.61	575.10	539.05	580.78	539.04	586.63	508.52
569.49	561.07	575.18	487.81	580.94	595.77	586.70	529.72
569.57	507.18	575.25	520.44	581.02	547.51	586.78	500.94
569.64	509.09	575.33	535.27	581.17	603.88	586.86	511.39
569.72	498.83	575.49	551.00	581.25	475.25	586.94	472.53
569.80	491.57	575.56	526.54	581.33	527.50	587.02	532.46
569.88	558.61	575.72	555.14	581.41	393.78	587.17	567.92
570.03	552.75	575.80	495.22	581.48	467.88	587.25	530.18
570.11	556.16	575.88	508.51	581.56	557.39	587.40	537.39
570.27	543.29	575.95	511.91	581.72	580.14	587.48	528.07
570.35	517.65	576.03	477.58	581.80	552.69	587.56	546.06



PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score
587.64	461.59	593.48	577.05	599.32	562.32	605.16	632.97
587.72	537.04	593.64	551.66	599.40	589.14	605.32	585.54
587.79	561.68	593.71	470.80	599.48	510.39	605.40	539.70
587.95	572.55	593.79	542.17	599.63	550.35	605.48	524.56
588.03	605.71	593.87	506.45	599.71	587.37	605.55	554.27
588.18	563.32	593.95	495.85	599.95	528.22	605.63	562.30
588.26	514.41	594.03	548.61	600.02	560.91	605.71	521.88
588.34	530.16	594.18	517.44	600.10	520.36	605.87	582.43
588.42	495.94	594.26	519.27	600.18	552.26	605.94	580.67
588.50	492.53	594.42	578.06	600.26	548.36	606.10	547.90
588.57	568.89	594.49	474.89	600.41	572.43	606.18	514.68
588.73	526.56	594.57	542.63	600.49	611.47	606.25	543.70
588.81	628.36	594.65	498.73	600.65	583.96	606.33	535.04
588.96	541.94	594.73	501.89	600.72	477.87	606.41	601.70
589.04	483.59	594.80	551.89	600.80	507.50	606.49	588.69
589.12	542.42	594.96	541.19	600.88	489.09	606.64	583.39
589.20	505.61	595.04	588.03	600.96	527.42	606.72	569.84
589.27	536.83	595.19	553.35	601.04	580.78	606.88	621.04
589.35	572.34	595.27	511.78	601.19	556.69	606.96	523.80
589.51	549.87	595.35	556.67	601.27	551.82	607.03	555.88
589.59	554.26	595.43	493.40	601.43	527.80	607.11	581.37
589.74	503.45	595.58	566.43	601.50	523.80	607.19	536.83
589.82	484.46	595.74	567.06	601.58	532.72	607.27	560.26
589.90	512.65	595.82	590.97	601.66	528.62	607.42	584.29
589.98	523.53	595.97	543.53	601.74	517.10	607.50	579.66
590.05	527.42	596.05	499.76	601.81	561.78	607.66	606.68
590.13	536.87	596.13	531.21	601.97	553.83	607.73	579.77
590.29	570.33	596.21	505.89	602.05	563.08	607.81	555.78
590.36	574.87	596.28	628.35	602.20	545.78	607.89	546.02
590.52	563.11	596.36	546.96	602.28	558.08	607.97	519.12
590.60	501.32	596.52	545.88	602.36	513.64	608.05	535.62
590.68	512.60	596.60	542.90	602.44	545.54	608.20	575.39
590.75	514.64	596.75	612.73	602.52	513.80	608.28	568.21
590.83	497.06	596.83	584.84	602.59	550.13	608.44	613.39
590.91	522.68	596.91	560.05	602.75	593.08	608.51	558.59
591.07	558.28	596.99	550.36	602.83	541.78	608.59	559.82
591.14	544.87	597.06	564.68	602.98	548.76	608.67	494.33
591.30	568.19	597.14	552.35	603.06	541.57	608.75	567.08
591.38	505.24	597.30	568.15	603.14	529.37	608.83	602.92
591.46	518.89	597.38	570.75	603.22	442.00	608.98	543.19
591.53	488.43	597.53	495.17	603.29	540.24	609.06	578.77
591.69	576.64	597.61	513.33	603.37	541.90	609.21	532.64
591.84	554.07	597.69	565.05	603.53	549.08	609.29	509.98
591.92	660.70	597.76	510.46	603.61	577.37	609.37	536.38
592.08	562.45	597.84	592.36	603.76	570.23	609.45	505.77
592.16	462.10	597.92	604.77	603.84	561.79	609.53	546.12
592.23	538.00	598.08	534.04	603.92	513.93	609.60	575.45
592.31	533.19	598.15	587.96	604.00	503.68	609.84	608.74
592.39	543.31	598.31	535.10	604.07	565.68	609.99	596.55
592.47	552.02	598.39	571.60	604.15	579.85	610.07	530.17
592.62	534.22	598.47	519.15	604.31	535.33	610.15	562.30
592.70	574.94	598.54	556.81	604.39	589.31	610.23	554.12
592.86	530.97	598.62	638.95	604.54	618.54	610.31	469.80
592.94	406.94	598.70	575.68	604.62	508.54	610.38	584.51
593.01	534.99	598.86	576.88	604.70	543.89	610.54	563.69
593.09	545.54	598.93	537.86	604.77	514.59	610.62	559.33
593.17	450.02	599.09	558.27	604.85	536.83	610.77	558.26
593.25	560.94	599.17	515.51	604.93	588.37	610.85	533.99
593.40	584.09	599.24	541.11	605.09	532.86	610.93	563.52

PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score
611.01	577.09	617.08	570.04	622.85	573.57	628.77	553.31
611.08	574.96	617.16	562.96	623.08	574.89	628.84	495.75
611.16	519.44	617.24	511.39	623.24	698.55	628.92	546.23
611.32	601.61	617.32	463.40	623.31	499.43	629.00	546.12
611.40	621.82	617.39	555.10	623.39	515.74	629.08	593.79
611.55	575.04	617.55	564.96	623.47	576.36	629.23	590.38
611.63	499.81	617.63	575.02	623.55	589.14	629.31	595.26
611.71	568.43	617.78	597.30	623.63	563.88	629.55	552.27
611.79	581.29	617.86	550.88	623.78	544.29	629.62	589.38
611.86	519.28	617.94	542.57	623.86	610.35	629.70	545.54
611.94	515.70	618.02	490.40	624.01	609.54	629.78	636.22
612.10	552.09	618.09	595.37	624.09	562.95	629.86	530.67
612.17	572.97	618.17	598.81	624.17	570.28	630.01	626.83
612.33	583.34	618.33	540.81	624.25	542.30	630.09	565.75
612.41	516.67	618.41	586.90	624.33	578.24	630.25	656.46
612.49	548.24	618.56	562.70	624.40	580.30	630.32	563.54
612.56	551.22	618.64	457.23	624.56	607.75	630.40	615.94
612.64	594.91	618.72	592.31	624.64	577.97	630.48	582.15
612.72	566.45	618.80	568.13	624.79	616.00	630.56	582.12
612.88	610.77	618.87	510.57	624.87	552.27	630.79	550.54
612.95	598.15	618.95	557.64	624.95	575.61	630.87	628.73
613.11	570.00	619.11	585.61	625.03	556.00	631.03	628.28
613.19	586.52	619.19	544.34	625.11	653.24	631.10	583.60
613.27	552.36	619.34	595.38	625.18	628.23	631.18	548.04
613.34	489.09	619.42	551.15	625.34	616.84	631.26	569.57
613.42	618.64	619.50	576.49	625.42	592.58	631.34	653.46
613.50	568.46	619.57	542.29	625.57	571.42	631.41	598.70
613.65	592.97	619.65	546.27	625.65	531.67	631.65	594.81
613.73	563.69	619.73	527.64	625.73	586.91	631.80	606.44
613.89	585.78	619.89	604.81	625.81	612.75	631.88	577.38
613.97	559.15	619.96	560.17	625.88	619.83	631.96	591.04
614.04	561.92	620.12	625.37	625.96	623.82	632.04	526.91
614.12	556.51	620.20	558.85	626.12	610.86	632.12	591.65
614.20	595.51	620.28	539.68	626.20	588.36	632.19	587.27
614.28	523.21	620.35	490.20	626.35	599.84	632.35	597.94
614.43	615.14	620.43	628.54	626.43	622.55	632.58	618.11
614.67	611.14	620.51	569.32	626.51	588.95	632.66	543.72
614.75	580.84	620.67	603.17	626.59	568.06	632.74	573.68
614.82	556.13	620.74	587.56	626.66	513.37	632.82	569.57
614.90	519.34	620.90	577.62	626.74	641.18	632.89	496.13
614.98	517.81	620.98	592.14	626.90	580.99	632.97	546.16
615.06	590.06	621.05	572.06	626.97	631.25	633.13	613.77
615.21	594.17	621.13	526.76	627.13	563.01	633.21	575.06
615.29	605.40	621.29	624.73	627.21	580.97	633.36	637.42
615.52	434.74	621.44	620.89	627.29	572.61	633.44	543.93
615.60	567.01	621.52	595.53	627.36	593.34	633.52	582.40
615.68	546.85	621.68	591.63	627.44	505.20	633.60	530.21
615.76	637.31	621.76	543.72	627.52	567.67	633.67	638.95
615.84	617.53	621.83	567.75	627.68	587.71	633.75	617.89
615.99	571.06	621.91	513.29	627.75	658.08	633.91	591.37
616.23	597.14	621.99	511.45	627.91	576.85	633.99	601.56
616.30	537.74	622.07	536.47	627.99	495.00	634.22	575.91
616.38	570.00	622.22	578.82	628.07	580.39	634.30	554.83
616.46	537.25	622.30	584.46	628.14	592.90	634.37	621.88
616.54	620.01	622.46	628.73	628.22	650.00	634.45	679.13
616.61	481.96	622.53	545.25	628.30	624.73	634.53	635.69
616.77	551.00	622.61	587.70	628.45	578.41	634.69	596.43
616.85	584.39	622.69	525.84	628.53	612.03	634.76	709.34
617.00	545.07	622.77	580.89	628.69	591.22	634.92	611.85

PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score
635.00	606.96	641.00	586.96	646.92	603.11	653.69	596.36
635.08	575.01	641.23	566.64	646.99	630.38	653.77	569.04
635.15	576.02	641.31	606.49	647.15	624.04	653.85	661.73
635.23	529.88	641.39	595.23	647.38	561.86	654.00	606.46
635.47	590.87	641.46	598.20	647.46	584.84	654.39	625.06
635.54	631.37	641.54	601.71	647.54	580.41	654.47	613.60
635.70	579.23	641.70	628.68	647.62	593.34	654.55	633.85
635.78	554.02	641.77	665.97	647.69	591.49	654.63	598.70
635.85	545.65	641.93	616.32	647.77	626.00	654.70	653.46
635.93	539.17	642.01	584.88	648.16	615.35	654.78	620.05
636.01	650.00	642.09	609.96	648.24	545.25	654.94	672.41
636.24	630.22	642.16	598.55	648.32	632.90	655.02	587.10
636.32	591.93	642.32	605.57	648.40	550.52	655.17	638.09
636.48	589.17	642.48	636.42	648.47	609.10	655.25	598.73
636.56	573.95	642.55	591.32	648.55	627.66	655.33	686.81
636.63	622.55	642.71	571.93	648.71	623.12	655.41	593.34
636.71	564.63	642.79	600.87	648.94	608.30	655.48	638.95
636.79	535.82	642.86	665.17	649.02	629.34	655.56	556.95
636.87	681.99	642.94	636.55	649.10	601.66	655.80	663.13
637.02	592.78	643.02	543.88	649.17	551.62	655.95	626.92
637.10	559.66	643.10	635.89	649.25	588.14	656.03	621.60
637.26	551.66	643.25	589.31	649.49	648.96	656.11	633.39
637.33	564.31	643.33	605.42	649.56	650.58	656.18	563.97
637.41	609.51	643.49	615.76	649.72	548.87	656.26	598.08
637.49	632.86	643.57	513.68	649.80	538.09	656.34	625.20
637.57	551.05	643.64	530.51	649.88	585.67	656.57	612.08
637.65	612.89	643.72	577.95	649.95	589.65	656.73	595.16
637.80	589.17	643.80	609.10	650.11	637.43	656.81	586.29
637.88	647.04	643.88	627.47	650.26	596.32	656.89	627.03
638.04	650.30	644.03	618.15	650.34	633.92	656.96	609.50
638.11	559.73	644.11	636.93	650.58	523.26	657.04	546.12
638.19	602.83	644.27	619.83	650.65	596.39	657.12	665.83
638.27	508.08	644.34	539.95	650.73	604.12	657.28	602.97
638.35	484.82	644.42	596.67	650.81	480.90	657.35	626.80
638.58	585.52	644.50	568.13	650.89	628.13	657.51	597.53
638.66	611.12	644.58	603.80	651.04	624.24	657.59	617.40
638.81	640.98	644.66	640.08	651.12	610.36	657.66	569.13
638.89	570.10	644.81	645.50	651.36	495.34	657.74	661.73
638.97	578.25	644.89	590.62	651.43	582.33	657.82	527.58
639.05	556.51	645.05	606.76	651.51	617.32	657.90	605.37
639.13	653.46	645.12	597.96	651.59	588.30	658.29	650.97
639.20	570.15	645.20	561.49	651.67	623.76	658.37	591.37
639.36	602.18	645.28	628.31	651.82	649.50	658.44	584.73
639.44	610.58	645.36	679.13	651.90	628.69	658.52	619.92
639.59	612.31	645.44	592.43	652.06	664.30	658.60	603.27
639.67	558.07	645.59	612.79	652.13	601.60	658.68	596.34
639.75	597.48	645.67	634.18	652.21	588.57	658.83	642.49
639.83	528.62	645.82	632.53	652.29	563.38	658.91	617.69
639.91	591.65	645.90	599.09	652.37	653.46	659.07	648.22
639.98	652.14	645.98	592.67	652.45	567.21	659.14	573.95
640.14	627.85	646.06	614.24	652.60	649.89	659.22	580.95
640.22	627.35	646.14	575.57	652.84	642.61	659.30	615.70
640.37	632.73	646.21	609.58	652.91	545.83	659.38	514.57
640.45	559.63	646.37	598.91	652.99	620.86	659.61	644.87
640.53	519.63	646.45	653.18	653.07	607.39	659.69	672.45
640.61	582.17	646.60	634.61	653.15	546.27	659.92	608.69
640.68	609.33	646.68	647.78	653.38	593.58	660.00	590.18
640.76	583.06	646.76	585.44	653.46	624.06	660.08	570.97
640.92	618.65	646.84	653.66	653.61	650.70	660.47	634.00

PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score
660.62	675.89	667.87	591.43	674.26	653.28	682.67	667.88
660.70	653.28	667.95	616.02	674.41	649.93	682.98	727.75
660.78	617.37	668.02	708.27	674.65	684.39	683.29	643.46
660.86	641.66	668.18	655.86	674.72	593.45	683.37	613.86
660.94	679.13	668.26	633.29	674.80	569.39	683.45	621.88
661.01	645.77	668.41	573.69	674.88	695.38	683.60	595.14
661.17	628.07	668.49	587.04	674.96	679.13	683.76	696.94
661.25	642.73	668.57	652.29	675.50	543.98	683.84	633.49
661.48	603.65	668.65	665.97	675.58	603.05	683.99	641.42
661.56	618.88	668.73	550.03	675.66	625.08	684.07	597.43
661.64	592.57	668.80	609.99	675.74	679.13	684.15	700.19
661.79	675.87	668.96	660.43	676.05	743.30	684.30	653.46
661.95	612.48	669.04	629.25	676.20	659.29	684.38	651.37
662.03	643.05	669.27	671.76	676.28	638.17	684.77	670.83
662.18	632.29	669.35	653.73	676.36	626.67	684.85	642.70
662.26	663.92	669.43	539.45	676.44	621.88	684.93	616.86
662.34	667.89	669.50	609.10	676.52	679.13	685.01	627.46
662.42	607.39	669.58	607.01	677.06	631.91	685.32	612.22
662.57	642.09	669.74	628.15	677.14	654.44	685.55	638.30
662.73	690.88	669.82	630.96	677.22	659.45	685.71	642.53
662.81	681.26	669.97	675.01	677.29	679.13	685.78	603.45
662.96	630.90	670.05	623.24	677.37	745.24	685.94	618.43
663.04	636.07	670.13	613.33	677.53	659.26	686.10	680.46
663.12	579.63	670.21	607.47	677.61	717.58	686.33	603.55
663.20	615.70	670.28	679.13	677.84	601.90	686.56	599.03
663.27	616.02	670.36	637.25	677.92	629.40	686.64	679.13
663.58	649.36	670.60	677.72	678.00	642.16	687.19	712.48
663.74	603.98	670.83	613.75	678.15	648.86	687.26	642.08
663.82	549.21	670.91	647.07	678.62	661.97	687.34	600.35
663.90	635.95	670.98	619.66	678.70	595.27	687.73	675.85
663.97	556.55	671.06	616.02	678.77	546.60	687.97	595.48
664.05	679.13	671.14	648.10	678.85	587.11	688.04	647.07
664.13	644.63	671.30	670.94	678.93	643.50	688.12	599.07
664.52	617.21	671.53	635.60	679.09	666.73	688.20	569.33
664.60	582.80	671.61	605.33	679.16	649.18	688.28	700.86
664.68	592.89	671.69	667.76	679.32	611.97	688.67	605.20
664.91	612.58	671.76	603.90	679.40	623.24	688.74	710.17
665.06	695.76	671.84	612.78	679.48	675.16	688.90	673.29
665.30	633.54	671.92	634.14	679.63	636.42	688.98	645.48
665.38	597.38	672.08	630.77	680.10	672.49	689.06	621.06
665.45	667.12	672.15	684.93	680.18	627.84	689.21	704.64
665.53	552.57	672.39	585.53	680.25	607.23	689.52	690.25
665.61	601.23	672.46	636.52	680.33	636.55	689.60	671.54
665.84	638.45	672.54	627.46	680.64	689.46	689.68	661.73
665.92	659.16	672.70	657.23	680.72	655.97	689.76	650.00
666.16	624.76	672.85	684.14	680.88	690.60	689.99	650.26
666.23	597.58	672.93	616.83	680.96	605.36	690.07	688.22
666.31	614.54	673.09	666.47	681.03	619.62	690.22	716.11
666.62	635.19	673.17	661.97	681.11	621.43	690.30	582.80
666.70	626.22	673.24	639.89	681.19	550.03	690.38	670.92
666.86	683.98	673.32	612.75	681.27	605.55	690.46	634.37
666.93	594.99	673.40	616.02	681.42	646.16	690.77	641.97
667.01	624.99	673.48	676.86	681.50	637.91	690.85	695.40
667.09	653.66	673.63	628.80	681.66	684.86	691.08	724.05
667.17	609.14	673.71	656.03	681.73	721.69	691.16	640.85
667.25	661.60	673.87	738.98	681.89	632.86	691.39	617.87
667.48	656.59	673.94	611.14	682.05	723.80	691.86	623.24
667.71	626.85	674.02	601.54	682.51	587.04	691.94	708.00
667.79	597.98	674.10	595.17	682.59	575.60	692.02	638.55

PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score
692.09	570.74	702.92	627.46	714.14	733.03	728.55	709.06
692.33	652.94	703.00	650.00	714.22	780.62	729.25	661.97
692.41	618.04	703.08	686.58	714.53	652.17	729.33	689.25
692.64	676.37	703.23	701.02	714.68	550.03	729.56	667.37
692.79	612.75	703.31	663.05	714.99	663.90	730.03	714.36
692.87	562.30	703.62	660.33	715.23	721.69	730.34	635.21
692.95	657.35	703.70	653.66	715.31	673.28	730.88	730.36
693.18	645.10	703.86	660.21	715.38	638.55	731.04	679.13
693.34	641.10	704.09	650.22	715.54	687.21	731.12	669.99
693.42	636.21	704.32	631.91	716.01	661.97	731.59	661.97
693.50	641.03	704.40	649.40	716.09	666.01	732.36	721.69
693.57	729.47	704.63	602.72	716.16	644.39	733.14	661.97
693.65	638.95	704.79	663.21	716.24	679.13	733.22	703.32
694.12	607.58	705.10	614.77	716.86	680.31	733.92	721.69
694.20	670.75	705.18	630.43	717.02	679.13	734.00	672.76
694.35	621.88	705.41	650.07	717.57	642.70	734.08	700.89
694.51	671.95	705.80	669.52	718.03	718.06	734.47	678.91
694.66	734.01	705.88	696.39	718.34	682.61	734.70	642.78
694.74	685.71	705.96	771.84	718.42	630.11	734.78	753.99
694.90	630.86	706.35	695.64	718.50	721.69	735.17	718.22
694.98	721.38	706.66	597.43	718.81	742.52	735.48	661.97
695.05	673.26	706.74	703.61	719.20	648.34	735.56	638.29
695.13	581.37	706.97	686.58	719.67	734.60	735.95	691.89
695.21	570.59	707.36	701.24	719.90	661.97	736.03	717.04
695.29	723.80	707.44	682.61	719.98	706.91	736.26	661.97
695.44	661.56	707.91	692.86	720.06	647.81	736.49	679.13
695.52	628.75	708.22	597.71	720.14	588.15	736.73	735.46
695.68	681.45	708.30	686.95	720.37	640.47	736.96	675.07
695.83	669.38	708.37	693.49	720.45	730.61	737.19	621.88
695.91	624.15	709.00	662.47	720.68	611.14	737.97	684.13
696.53	641.91	709.23	546.12	720.76	683.68	738.05	616.02
696.61	731.11	709.70	722.61	720.84	721.69	738.36	721.65
697.31	648.17	709.85	735.49	720.91	679.13	738.60	721.69
697.39	633.71	710.01	650.00	721.15	655.31	738.75	700.89
697.55	659.08	710.09	675.66	721.54	653.04	739.38	748.41
698.09	639.56	710.55	701.18	722.01	661.87	739.45	701.15
698.17	622.85	710.63	640.30	722.24	728.34	740.23	711.95
698.95	624.86	710.71	653.66	722.55	674.39	740.93	692.67
699.03	636.55	711.26	621.00	722.94	653.47	741.01	691.61
699.10	679.13	711.33	661.97	723.02	721.69	741.17	679.13
699.34	700.32	711.41	661.94	723.10	655.21	741.40	705.53
699.57	604.43	711.49	663.42	723.80	597.43	743.35	706.32
699.65	552.27	711.57	595.51	723.87	700.19	746.31	732.72
699.73	595.87	711.80	710.38	724.58	703.04	746.39	698.45
699.88	653.46	711.88	780.62	724.73	669.63	747.24	696.54
699.96	621.54	712.11	623.24	724.89	700.00	747.32	661.73
700.12	688.83	712.19	659.74	725.04	724.07	747.71	670.74
700.43	597.96	712.27	621.88	725.28	692.09	748.18	592.36
700.51	617.58	712.58	737.80	725.35	657.47	748.26	662.62
700.58	665.13	712.66	780.62	725.43	694.70	749.03	659.03
700.66	679.13	712.81	629.44	725.59	679.13	751.60	731.25
701.13	663.15	712.97	625.46	725.82	760.87	751.92	775.39
701.21	669.11	713.05	608.82	726.06	675.89	753.47	710.77
701.29	638.44	713.13	650.00	726.21	716.31	754.25	743.38
701.52	723.80	713.44	661.09	726.83	762.82	754.41	679.13
702.06	682.78	713.59	690.18	726.91	666.10	757.29	746.42
702.14	661.73	713.67	656.81	726.99	703.04	760.48	767.53
702.22	679.13	713.83	589.75	727.15	598.81	760.56	721.69
702.77	700.34	713.98	650.91	727.92	679.13	762.12	661.73

PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score	PISA score (PV1)	New score
762.20	679.13	769.52	708.94	777.08	671.69	795.54	771.84
763.44	732.49	771.08	718.83	777.54	661.97	798.65	771.84
763.60	757.90	771.31	721.69	777.62	751.05	803.33	771.84
766.72	775.39	772.56	771.49	784.63	687.13	828.41	679.13
767.73	724.57	773.03	721.69	788.53	771.84		
768.27	684.21	773.73	716.79	789.23	721.69		
768.90	723.24	777.00	587.11	794.68	763.19		

Table E.2

## Original PCAP scores to new score

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
204.13	227.38	256.12	276.04	272.54	298.09	280.87	306.88
215.37	252.67	256.27	276.57	272.69	299.77	280.93	303.64
217.37	247.48	256.44	313.25	272.79	296.81	280.99	297.35
218.35	240.98	256.69	275.73	273.30	310.15	281.41	299.30
220.52	242.49	256.83	277.88	273.54	291.68	281.82	292.62
221.84	247.22	257.12	279.90	273.86	290.47	281.99	313.32
222.08	241.72	257.60	286.23	273.99	312.75	282.19	297.11
222.36	245.01	258.53	277.40	274.05	289.20	282.20	308.40
227.90	257.72	259.89	278.62	274.06	296.60	282.27	305.21
230.45	252.79	260.04	296.28	274.30	292.20	282.47	296.91
231.72	253.57	260.19	278.68	274.31	288.69	282.60	311.03
233.30	261.20	260.48	303.41	274.53	301.19	282.73	302.20
233.39	269.87	260.60	276.79	274.73	305.27	283.03	309.31
234.44	254.09	261.10	280.34	275.06	297.09	283.06	308.90
234.57	265.51	261.16	278.09	275.10	293.33	283.26	307.31
236.64	265.59	261.86	299.57	275.26	293.61	283.50	299.41
237.31	267.80	261.97	280.83	275.39	292.46	283.81	309.60
238.09	258.89	262.05	280.74	275.41	294.15	283.82	309.92
238.69	260.32	262.48	280.98	275.42	285.22	283.83	303.35
238.84	265.27	263.47	283.24	275.45	295.68	283.86	307.65
238.95	263.92	264.34	282.21	275.55	293.64	283.87	293.57
239.34	263.26	264.98	283.28	275.75	291.03	283.88	301.39
239.52	269.52	265.22	284.82	275.86	312.21	284.10	310.19
239.75	261.61	265.40	288.34	276.04	304.50	284.11	307.09
239.83	259.26	265.47	283.98	276.29	285.24	284.18	307.01
241.04	264.03	265.61	284.37	276.51	303.50	284.19	301.80
241.16	263.17	265.93	284.28	276.62	294.49	284.23	289.30
243.67	263.09	266.50	293.94	276.71	294.82	284.62	302.34
243.77	282.76	266.78	285.15	276.79	294.74	284.64	302.45
243.79	264.82	267.27	285.88	277.30	301.86	284.68	307.26
244.36	261.84	267.61	278.33	278.53	296.72	284.69	302.38
246.60	280.95	268.11	297.40	278.68	299.28	285.42	308.81
246.62	281.66	268.55	286.19	278.85	296.99	285.57	298.80
247.50	268.40	269.01	287.45	278.86	309.07	285.83	307.19
248.97	278.43	269.25	301.53	278.89	306.52	285.93	320.88
249.71	278.08	269.40	291.70	278.95	307.21	286.00	303.72
249.93	269.16	269.54	292.50	279.10	305.51	286.05	303.87
250.02	269.26	269.72	297.24	279.16	302.39	286.10	311.74
250.04	269.91	269.76	287.86	279.17	311.55	286.11	303.37
251.15	270.26	270.05	297.27	279.22	275.31	286.18	305.87
251.35	270.44	270.06	305.92	279.26	293.81	286.41	320.19
251.91	301.12	270.11	288.43	279.31	295.44	286.52	315.03
252.62	281.72	270.23	298.19	279.35	295.76	286.53	312.82
252.67	273.14	270.29	288.59	279.40	294.34	286.63	311.25
252.90	275.42	270.59	289.02	279.45	288.51	286.68	310.49
253.00	291.23	270.87	294.00	279.48	301.41	286.81	305.96
253.21	278.71	271.12	294.02	279.57	306.15	286.84	312.74
254.22	275.97	271.19	291.76	279.60	297.29	286.89	296.57
254.61	274.42	271.47	278.71	279.94	302.55	286.95	301.03
254.72	283.51	271.54	283.00	279.96	300.54	287.10	303.53
254.94	271.82	271.60	298.68	279.97	301.09	287.14	312.77
255.40	313.74	271.72	296.42	280.14	313.28	287.65	314.66
255.53	279.37	271.83	280.83	280.30	294.45	287.70	301.28
255.80	274.47	271.85	289.79	280.64	298.21	287.86	305.15
255.88	283.82	271.86	290.15	280.75	298.03	287.87	298.50

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
287.93	297.68	295.53	301.19	301.75	326.29	305.66	336.23
288.03	305.27	295.73	320.85	301.77	318.67	305.74	322.63
288.31	299.21	295.82	310.85	301.83	310.50	305.85	322.83
288.47	305.13	295.96	310.32	301.84	342.22	305.90	385.55
288.62	320.87	296.02	327.15	301.97	310.89	305.94	327.47
288.74	297.91	296.09	312.31	302.05	330.93	306.05	322.96
288.76	306.05	296.13	315.69	302.16	314.47	306.24	323.33
288.77	306.31	296.19	312.84	302.31	326.49	306.27	319.20
288.90	308.83	296.39	324.61	302.34	367.22	306.31	307.62
288.92	314.56	296.69	321.17	302.39	331.53	306.34	322.66
289.13	306.78	296.73	315.72	302.41	307.33	306.44	322.16
289.31	307.00	296.94	319.92	302.50	362.57	306.46	317.01
289.52	306.11	297.02	312.84	302.53	316.92	306.47	326.65
289.58	306.45	297.35	322.15	302.55	320.03	306.56	291.86
289.75	320.72	297.40	314.29	302.56	329.71	306.58	321.77
289.84	326.63	297.41	314.61	302.75	344.44	306.59	318.11
290.05	304.02	297.47	334.00	302.79	324.10	306.67	320.53
290.14	299.04	297.51	320.30	302.83	353.21	306.71	337.68
290.17	307.38	297.54	321.93	302.90	318.51	306.82	328.49
290.20	306.26	297.67	317.12	302.92	316.83	306.85	330.79
290.26	301.80	297.71	307.26	303.00	320.05	307.00	335.40
290.54	308.18	297.76	319.03	303.05	326.36	307.04	331.19
290.57	323.58	297.82	317.13	303.06	327.27	307.16	330.98
290.75	305.30	297.84	325.59	303.07	319.98	307.25	349.04
290.83	309.16	298.06	330.09	303.08	327.09	307.27	323.32
290.85	306.51	298.14	316.62	303.11	325.42	307.42	321.77
291.16	299.96	298.24	307.78	303.13	317.79	307.48	323.85
291.25	345.09	298.57	311.82	303.22	330.13	307.58	329.16
291.58	306.92	298.73	315.62	303.57	323.75	307.63	338.56
291.83	308.96	298.83	314.12	303.75	324.71	307.64	324.53
291.85	309.07	298.86	308.10	303.78	322.50	307.69	365.05
291.97	305.62	298.87	315.76	303.80	327.73	307.72	319.05
292.04	309.54	299.04	321.72	303.82	322.17	307.81	335.25
292.14	322.90	299.24	321.94	303.88	318.62	308.08	320.02
292.30	319.16	299.53	321.01	304.00	325.99	308.13	324.78
292.50	309.43	299.58	324.06	304.03	313.23	308.37	303.21
292.59	313.07	299.62	316.40	304.14	328.48	308.41	323.66
292.72	318.04	299.67	319.94	304.15	322.90	308.50	325.26
292.77	301.87	299.71	314.32	304.18	328.42	308.58	322.82
292.81	323.44	299.74	313.89	304.21	320.47	308.71	323.28
292.84	313.15	299.80	315.62	304.22	320.89	308.83	336.22
292.85	316.27	299.86	317.98	304.24	321.08	308.87	334.36
292.96	329.40	299.96	331.00	304.37	328.34	308.88	323.02
293.12	310.24	299.98	324.55	304.45	320.94	308.94	310.47
293.22	310.45	299.99	331.20	304.51	309.59	309.03	304.90
293.63	310.98	300.10	326.92	304.56	332.41	309.07	318.15
293.71	306.55	300.13	324.77	304.57	321.56	309.08	339.66
293.87	319.48	300.58	313.42	304.76	324.20	309.10	324.67
293.89	312.96	300.79	320.77	304.80	323.16	309.11	325.69
294.02	313.48	300.84	328.22	304.85	321.58	309.36	317.70
294.04	322.26	300.85	327.77	304.91	310.78	309.39	318.07
294.11	294.75	300.86	325.82	305.03	329.24	309.40	321.74
294.35	312.19	300.98	329.07	305.06	327.22	309.50	325.94
294.70	312.56	301.05	317.27	305.13	335.72	309.55	318.33
294.81	323.61	301.10	317.71	305.14	303.53	309.72	336.55
295.04	304.73	301.11	347.47	305.43	308.44	309.74	332.94
295.08	321.63	301.37	327.60	305.48	326.82	309.84	314.78
295.38	305.98	301.60	328.54	305.49	315.01	310.04	327.83
295.45	329.40	301.61	318.37	305.56	318.56	310.11	321.81
295.46	314.97	301.72	316.78	305.64	314.02	310.13	324.02



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
310.32	322.30	313.58	335.54	316.39	325.46	319.60	348.38
310.34	332.20	313.68	338.71	316.43	329.41	319.62	324.76
310.36	333.85	313.76	333.91	316.44	343.00	319.64	338.67
310.39	340.22	313.79	336.87	316.50	332.36	319.75	334.57
310.44	318.39	313.80	343.07	316.56	336.50	319.77	349.16
310.47	325.62	313.96	327.46	316.57	322.89	319.87	349.45
310.50	323.86	314.04	337.27	316.58	348.03	319.88	341.12
310.54	324.24	314.08	315.85	316.69	318.59	319.96	346.95
310.57	336.45	314.17	334.94	316.71	318.70	319.97	330.92
310.65	325.12	314.21	315.99	316.73	338.05	320.04	321.60
310.69	329.08	314.23	332.22	316.82	338.23	320.20	330.44
310.73	329.91	314.33	322.25	316.91	329.72	320.24	341.47
310.77	321.47	314.38	350.85	316.94	340.16	320.25	336.18
310.85	324.22	314.39	334.77	317.10	326.40	320.31	343.18
310.92	321.03	314.40	340.81	317.12	333.53	320.34	339.11
311.00	334.64	314.43	335.91	317.14	340.09	320.39	343.23
311.04	324.12	314.56	327.59	317.19	326.66	320.46	335.81
311.19	341.61	314.63	351.15	317.24	341.98	320.48	329.77
311.24	343.38	314.68	336.24	317.27	319.03	320.54	331.36
311.25	339.24	314.70	341.47	317.32	346.85	320.62	340.80
311.57	347.42	314.71	336.75	317.34	333.58	320.82	342.35
311.58	335.37	314.73	331.03	317.45	336.24	320.83	350.14
311.73	336.64	314.76	330.52	317.46	347.39	320.85	344.10
311.81	332.50	314.85	325.61	317.64	356.79	320.86	337.04
311.89	335.53	314.86	329.49	317.68	347.44	320.88	334.38
311.98	333.17	314.89	338.14	317.73	353.78	320.94	321.52
312.01	333.68	314.92	340.37	317.81	350.32	320.95	335.00
312.15	323.41	314.95	333.14	317.83	331.86	321.02	338.87
312.18	342.77	314.98	329.07	317.89	319.99	321.09	343.40
312.30	333.66	315.00	334.78	317.91	347.66	321.24	333.54
312.31	325.28	315.04	338.06	317.97	341.26	321.27	338.37
312.36	358.49	315.08	349.74	318.06	339.55	321.28	337.17
312.39	330.89	315.11	330.77	318.08	329.42	321.42	331.89
312.41	329.04	315.14	342.29	318.09	341.54	321.47	340.87
312.43	323.07	315.17	327.84	318.11	337.30	321.53	336.64
312.49	318.98	315.24	338.57	318.30	332.17	321.65	352.77
312.55	320.93	315.32	331.44	318.37	342.33	321.75	337.59
312.56	322.05	315.33	323.70	318.38	333.81	321.77	358.97
312.58	334.63	315.40	327.52	318.42	331.72	321.83	336.31
312.59	321.95	315.48	330.71	318.44	340.73	321.85	335.42
312.60	315.74	315.50	363.24	318.50	345.02	321.92	345.63
312.62	328.53	315.51	338.99	318.52	328.03	321.96	404.60
312.66	328.81	315.53	323.80	318.59	341.93	322.01	349.64
312.67	331.02	315.57	331.78	318.67	341.76	322.03	344.81
312.73	343.12	315.65	332.07	318.69	332.66	322.07	348.97
312.79	332.95	315.69	348.84	318.81	351.69	322.10	359.77
312.93	321.21	315.76	338.82	318.89	350.10	322.16	353.90
312.98	336.60	315.78	354.62	318.93	342.09	322.20	317.31
313.04	337.25	315.91	331.72	318.99	321.68	322.25	354.13
313.22	328.82	315.94	332.33	319.02	323.29	322.26	336.72
313.23	329.79	315.95	323.93	319.06	324.15	322.30	334.95
313.26	332.94	315.99	331.65	319.08	330.39	322.33	343.52
313.27	322.70	316.01	337.67	319.09	346.83	322.42	338.77
313.30	334.10	316.03	327.64	319.14	348.41	322.50	349.34
313.35	319.19	316.08	330.21	319.22	326.72	322.55	330.84
313.38	328.30	316.12	346.37	319.25	332.12	322.65	338.49
313.46	340.19	316.16	334.89	319.28	351.36	322.68	342.14
313.52	341.76	316.23	320.50	319.29	348.75	322.78	396.53
313.55	330.80	316.27	337.63	319.35	335.54	322.80	318.83
313.57	324.19	316.34	345.51	319.46	421.06	322.84	330.74

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
322.88	343.06	325.95	343.63	328.53	321.91	331.28	358.26
322.95	346.34	326.01	351.06	328.55	350.81	331.33	348.58
322.97	345.85	326.10	334.77	328.57	342.62	331.34	352.90
322.99	336.67	326.11	332.11	328.59	344.31	331.36	355.53
323.01	343.53	326.12	337.77	328.62	348.03	331.37	345.64
323.06	334.65	326.13	332.06	328.71	398.80	331.42	362.80
323.08	332.74	326.17	346.30	328.76	333.98	331.49	348.69
323.09	350.99	326.27	341.84	328.87	350.78	331.53	339.75
323.10	333.68	326.28	357.08	328.92	348.85	331.54	362.40
323.11	328.94	326.29	337.36	328.95	344.85	331.55	336.75
323.14	339.08	326.30	334.03	328.98	353.15	331.56	347.65
323.26	332.45	326.33	339.95	329.11	354.26	331.57	344.19
323.27	335.52	326.35	347.55	329.12	336.17	331.62	335.37
323.30	340.21	326.36	333.01	329.17	351.34	331.74	360.36
323.37	340.88	326.38	340.64	329.18	337.39	331.76	342.01
323.53	335.81	326.62	339.91	329.21	351.53	331.77	352.46
323.57	352.75	326.64	344.19	329.27	338.16	331.79	351.61
323.63	360.69	326.68	344.89	329.46	346.69	331.82	359.49
323.90	352.74	326.69	330.18	329.47	344.88	331.86	346.47
323.93	339.85	326.72	359.59	329.51	484.15	331.88	349.39
323.97	349.22	326.73	328.55	329.52	349.35	331.89	341.86
324.00	351.90	326.74	345.78	329.57	344.00	331.92	339.87
324.03	366.84	326.76	349.78	329.58	341.82	331.98	357.06
324.05	336.81	326.84	355.70	329.63	346.48	332.05	354.23
324.06	337.36	326.86	337.01	329.67	345.78	332.11	371.54
324.07	344.18	326.94	338.46	329.69	360.53	332.18	337.68
324.13	336.03	326.99	351.90	329.77	339.63	332.19	340.07
324.17	329.59	327.10	353.85	329.79	347.90	332.21	353.33
324.21	340.97	327.12	342.57	329.82	345.46	332.25	352.55
324.24	344.30	327.15	356.25	329.85	348.70	332.26	357.14
324.26	343.06	327.17	342.92	329.88	351.14	332.30	360.25
324.30	340.79	327.28	339.31	329.89	356.03	332.35	347.71
324.35	347.63	327.33	348.27	329.99	339.67	332.44	332.34
324.54	335.79	327.43	353.80	330.03	364.35	332.53	353.95
324.57	346.83	327.44	343.28	330.22	352.72	332.55	344.85
324.68	344.01	327.50	334.75	330.32	350.46	332.57	333.78
324.69	393.31	327.51	354.24	330.33	347.54	332.71	352.93
324.72	347.56	327.57	349.96	330.34	345.50	332.77	360.71
324.73	340.99	327.60	354.76	330.36	349.59	332.80	354.80
324.79	353.62	327.69	355.34	330.45	331.85	332.85	316.96
324.87	329.91	327.80	355.30	330.49	346.54	332.89	351.20
324.92	343.33	327.81	360.90	330.61	340.14	332.91	358.40
324.95	354.63	327.86	343.17	330.63	349.65	332.92	357.84
325.08	333.43	327.89	338.27	330.69	353.60	332.96	381.61
325.15	350.10	327.92	337.55	330.70	346.26	333.04	361.51
325.25	327.76	328.06	344.08	330.73	355.67	333.08	359.69
325.28	348.18	328.09	337.63	330.77	333.54	333.09	349.36
325.29	350.50	328.10	339.93	330.81	357.62	333.15	353.37
325.33	344.49	328.14	336.23	330.82	353.26	333.16	353.45
325.35	351.79	328.20	349.21	330.83	351.09	333.18	336.31
325.38	335.18	328.21	340.78	330.85	354.42	333.21	353.19
325.39	341.30	328.28	349.59	330.91	345.39	333.24	359.93
325.41	326.77	328.29	337.73	330.93	352.01	333.27	351.18
325.45	336.06	328.30	343.23	330.97	343.64	333.28	381.59
325.51	335.16	328.33	329.28	330.98	350.88	333.46	354.95
325.60	348.17	328.37	342.71	331.10	355.68	333.47	346.05
325.67	335.59	328.42	347.07	331.11	371.04	333.49	349.34
325.80	366.00	328.43	362.59	331.22	343.62	333.54	341.07
325.89	348.15	328.45	346.51	331.26	353.74	333.55	367.53
325.94	340.72	328.47	342.75	331.27	338.73	333.56	346.53

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
333.57	345.64	335.97	345.56	338.37	343.56	340.53	361.32
333.61	358.52	335.98	362.39	338.38	370.71	340.54	356.76
333.70	349.46	335.99	351.65	338.39	363.30	340.58	360.28
333.74	357.84	336.03	352.03	338.41	352.84	340.60	343.77
333.75	342.63	336.04	351.45	338.43	343.26	340.61	350.12
333.76	352.00	336.06	350.24	338.45	362.11	340.66	362.84
333.77	344.55	336.07	355.94	338.50	351.26	340.70	386.35
333.81	348.13	336.10	361.32	338.55	354.05	340.74	503.09
333.93	353.41	336.19	354.33	338.58	355.12	340.77	356.45
333.95	369.89	336.39	364.31	338.59	357.76	340.79	354.09
334.03	362.32	336.46	345.84	338.60	354.75	340.87	349.69
334.05	353.72	336.48	347.87	338.61	357.18	340.89	356.67
334.11	356.91	336.54	339.48	338.62	362.01	340.90	351.75
334.17	334.40	336.59	329.68	338.65	329.28	340.92	356.53
334.24	342.06	336.72	335.98	338.66	369.01	340.99	347.39
334.30	349.95	336.73	352.77	338.86	353.26	341.00	368.73
334.34	362.29	336.74	344.44	338.92	367.46	341.04	358.49
334.35	362.31	336.76	353.06	338.98	345.62	341.07	357.78
334.42	330.55	336.77	360.46	339.03	368.21	341.13	342.76
334.43	342.38	336.79	351.02	339.21	348.92	341.16	363.84
334.44	359.38	336.80	350.20	339.25	413.24	341.17	374.55
334.45	350.29	336.88	375.21	339.28	351.68	341.19	356.98
334.61	365.17	336.91	363.02	339.34	354.69	341.20	355.66
334.65	385.74	336.99	358.67	339.40	356.28	341.24	344.91
334.69	352.99	337.01	346.61	339.42	348.94	341.26	367.35
334.70	343.70	337.06	348.60	339.49	355.49	341.34	360.94
334.71	344.82	337.16	355.14	339.52	395.14	341.37	356.35
334.72	339.29	337.17	375.36	339.58	360.77	341.42	367.84
334.80	337.61	337.21	342.41	339.59	355.11	341.43	360.31
334.81	347.81	337.22	346.16	339.62	343.33	341.46	358.04
334.83	341.23	337.36	360.90	339.66	378.90	341.47	356.27
334.86	356.95	337.38	494.61	339.70	355.02	341.48	379.24
334.88	350.45	337.42	353.01	339.73	354.39	341.55	352.47
334.89	342.42	337.44	365.73	339.80	346.27	341.67	370.39
334.94	346.09	337.45	347.07	339.82	355.23	341.71	349.69
334.97	351.46	337.47	350.97	339.83	349.04	341.73	360.87
335.02	342.64	337.51	346.76	339.89	367.42	341.85	355.53
335.08	366.73	337.52	354.95	339.90	355.34	341.91	362.50
335.11	345.33	337.57	348.72	339.93	355.34	341.92	363.33
335.21	356.54	337.59	352.16	339.94	351.93	341.96	352.63
335.22	349.01	337.61	363.65	339.95	352.41	342.00	361.52
335.27	363.47	337.69	351.78	339.97	383.63	342.05	360.30
335.28	339.56	337.70	369.78	339.98	367.44	342.09	354.53
335.31	376.64	337.73	363.94	339.99	355.39	342.11	358.95
335.35	347.94	337.76	353.08	340.01	351.23	342.14	388.11
335.36	357.01	337.90	357.90	340.04	352.22	342.19	367.76
335.37	350.56	337.97	351.48	340.05	347.83	342.21	352.99
335.39	386.93	338.00	353.94	340.13	361.86	342.22	343.36
335.41	361.57	338.01	353.93	340.15	351.83	342.25	359.52
335.42	356.94	338.05	350.94	340.20	359.98	342.27	362.42
335.46	343.89	338.08	357.17	340.23	344.26	342.37	377.89
335.50	340.72	338.11	340.61	340.27	384.20	342.51	357.73
335.58	346.79	338.16	340.55	340.28	359.29	342.52	356.46
335.60	373.83	338.17	342.44	340.30	344.39	342.55	363.35
335.63	337.74	338.18	346.08	340.39	341.26	342.56	355.61
335.64	351.48	338.19	353.91	340.41	349.56	342.58	365.59
335.73	377.14	338.27	355.27	340.42	348.33	342.59	362.74
335.82	360.75	338.29	354.04	340.43	353.29	342.60	351.37
335.87	349.90	338.30	343.38	340.48	365.80	342.61	358.56
335.91	363.61	338.36	347.51	340.49	345.99	342.62	356.13

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
342.66	362.42	344.70	352.42	346.58	349.26	348.64	357.88
342.78	373.07	344.71	351.38	346.64	366.33	348.65	352.75
342.81	352.31	344.73	365.54	346.65	351.87	348.66	358.08
342.82	354.15	344.74	363.94	346.70	367.92	348.67	366.11
342.83	364.35	344.76	369.00	346.71	452.33	348.73	368.80
342.86	358.16	344.82	359.34	346.72	382.25	348.76	369.29
343.01	367.05	344.83	363.13	346.73	367.79	348.77	357.31
343.05	364.45	344.88	356.39	346.78	366.93	348.79	365.67
343.18	349.62	344.89	365.81	346.80	368.15	348.82	369.85
343.19	346.95	344.91	348.81	346.84	378.03	348.87	377.48
343.22	355.93	344.94	361.70	346.86	381.77	348.91	368.09
343.24	350.75	344.98	355.26	346.87	361.74	348.92	364.49
343.26	362.48	345.09	383.04	346.90	379.23	348.98	381.98
343.29	345.92	345.11	347.10	346.92	356.55	348.99	369.55
343.32	364.97	345.12	356.37	346.94	350.09	349.02	366.88
343.35	374.55	345.14	346.21	346.96	350.17	349.05	360.59
343.40	362.52	345.24	357.97	347.04	348.87	349.10	355.68
343.42	365.03	345.31	360.94	347.11	354.78	349.14	351.07
343.43	357.09	345.33	367.08	347.12	357.60	349.16	356.43
343.44	353.04	345.40	354.36	347.19	370.57	349.23	363.63
343.47	348.23	345.41	353.74	347.26	358.46	349.26	350.27
343.52	358.15	345.43	358.30	347.27	374.23	349.30	376.72
343.55	352.65	345.44	362.08	347.28	360.30	349.33	364.15
343.56	352.72	345.49	378.20	347.30	346.23	349.39	369.76
343.62	353.31	345.56	372.17	347.36	351.18	349.41	360.44
343.63	360.37	345.59	377.38	347.40	367.75	349.44	361.85
343.65	349.06	345.62	384.50	347.41	363.98	349.45	367.47
343.67	345.21	345.63	368.95	347.42	375.67	349.48	359.07
343.69	358.96	345.64	365.57	347.43	370.86	349.51	354.15
343.70	341.51	345.66	369.94	347.44	371.28	349.53	375.84
343.75	360.36	345.67	357.64	347.48	348.21	349.58	384.04
343.77	373.60	345.68	333.47	347.51	365.52	349.59	352.69
343.79	351.19	345.72	355.49	347.53	357.79	349.63	367.59
343.80	357.19	345.74	363.03	347.56	358.90	349.67	362.50
343.83	367.72	345.75	362.59	347.61	384.08	349.68	371.39
343.84	353.72	345.77	348.95	347.65	355.92	349.70	352.13
343.85	360.24	345.78	369.30	347.68	375.27	349.78	364.80
343.90	351.05	345.79	361.07	347.71	369.02	349.83	366.20
343.95	349.48	345.81	353.90	347.77	354.18	349.87	358.15
343.96	359.49	345.87	384.43	347.79	360.36	349.88	361.74
344.00	353.57	345.95	367.72	347.82	368.56	349.89	368.31
344.01	354.74	345.98	365.00	347.85	364.98	349.90	376.59
344.06	359.43	345.99	342.13	347.88	355.32	349.96	372.86
344.17	350.56	346.02	369.11	347.89	355.25	349.99	352.99
344.19	363.38	346.06	354.99	348.00	373.17	350.04	358.86
344.25	331.19	346.09	350.36	348.01	351.48	350.08	366.70
344.29	362.68	346.15	359.84	348.08	363.22	350.14	356.24
344.30	365.17	346.19	355.76	348.13	370.84	350.15	362.02
344.35	356.70	346.20	361.50	348.19	377.10	350.19	352.63
344.36	367.70	346.25	355.24	348.26	357.46	350.21	367.43
344.38	360.28	346.27	385.07	348.28	371.05	350.22	355.85
344.40	339.84	346.29	368.97	348.32	366.72	350.26	357.43
344.41	359.85	346.35	371.48	348.34	375.32	350.27	364.51
344.43	370.07	346.36	359.42	348.37	360.17	350.28	374.20
344.44	376.94	346.42	356.26	348.38	377.01	350.30	377.55
344.45	347.14	346.45	369.49	348.47	364.27	350.42	357.48
344.47	357.57	346.50	343.39	348.48	370.34	350.45	366.87
344.53	357.76	346.55	359.01	348.56	356.44	350.46	358.66
344.60	354.25	346.56	366.20	348.58	398.54	350.50	379.17
344.69	359.40	346.57	347.82	348.61	373.16	350.54	365.97

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
350.56	375.59	352.25	353.77	353.85	357.33	355.66	376.29
350.59	367.39	352.27	372.11	353.90	359.20	355.67	372.31
350.60	363.11	352.29	361.91	353.94	363.25	355.68	356.76
350.68	354.60	352.31	364.91	353.95	344.59	355.70	384.10
350.70	373.67	352.39	380.03	354.02	376.59	355.71	397.49
350.81	371.83	352.40	381.71	354.05	377.13	355.72	376.08
350.85	372.82	352.42	367.21	354.10	362.85	355.75	380.38
350.91	379.08	352.44	379.66	354.16	368.52	355.77	372.37
350.94	367.20	352.50	378.39	354.17	370.88	355.78	382.47
350.95	366.46	352.51	374.85	354.20	366.45	355.80	367.37
350.96	366.25	352.52	340.33	354.22	383.26	355.83	388.36
350.97	359.13	352.53	342.83	354.26	371.97	355.84	367.21
350.98	362.61	352.60	350.46	354.30	368.98	355.85	372.44
350.99	381.76	352.73	335.74	354.37	355.86	355.86	364.54
351.02	349.39	352.74	370.69	354.38	368.50	355.89	372.53
351.04	364.96	352.77	357.95	354.39	369.76	355.93	365.51
351.07	361.80	352.78	363.72	354.40	370.82	355.98	359.50
351.08	378.08	352.86	360.46	354.45	375.08	356.01	376.59
351.10	365.09	352.89	359.70	354.47	357.62	356.06	364.29
351.11	375.35	352.93	356.40	354.49	575.02	356.07	368.48
351.15	380.69	352.94	356.95	354.52	358.69	356.16	374.14
351.19	362.48	352.95	364.85	354.53	390.48	356.18	378.79
351.20	354.49	352.96	389.21	354.55	373.26	356.25	399.97
351.22	363.44	352.97	370.70	354.59	374.27	356.36	371.67
351.23	355.01	352.98	372.67	354.61	383.71	356.38	364.83
351.26	362.78	353.01	374.01	354.66	369.91	356.41	371.43
351.27	366.35	353.03	354.42	354.67	370.26	356.42	387.71
351.31	354.97	353.06	373.15	354.69	360.12	356.43	364.30
351.35	376.70	353.08	376.15	354.70	356.09	356.45	369.07
351.38	365.31	353.09	367.89	354.71	361.33	356.46	365.23
351.42	362.87	353.13	363.77	354.80	368.67	356.47	393.82
351.45	363.98	353.14	358.01	354.81	380.02	356.53	375.45
351.47	358.78	353.18	372.20	354.86	374.08	356.54	371.95
351.48	372.47	353.19	394.36	354.87	369.86	356.61	371.94
351.49	359.01	353.21	356.86	354.90	376.26	356.62	360.08
351.51	368.38	353.24	382.14	354.92	376.89	356.64	371.33
351.54	388.66	353.26	375.12	354.97	341.13	356.70	377.00
351.58	369.36	353.27	373.62	354.99	372.91	356.71	363.37
351.61	361.20	353.28	375.12	355.03	358.46	356.72	369.79
351.62	369.98	353.32	365.06	355.07	388.69	356.73	380.30
351.63	378.42	353.33	453.57	355.13	366.64	356.74	368.55
351.66	367.80	353.35	374.16	355.14	365.49	356.76	380.41
351.68	402.90	353.37	379.92	355.15	382.14	356.77	369.00
351.72	361.37	353.48	365.08	355.16	376.19	356.78	380.71
351.77	484.53	353.49	389.68	355.17	383.74	356.79	369.77
351.78	357.33	353.50	361.87	355.23	358.26	356.81	374.83
351.82	385.24	353.52	378.94	355.25	364.80	356.82	362.63
351.85	363.81	353.54	366.15	355.30	379.25	356.86	374.21
351.88	365.59	353.60	360.78	355.33	365.31	356.88	387.26
351.97	356.47	353.64	364.21	355.35	373.71	356.93	379.13
352.04	354.44	353.67	361.17	355.36	362.24	357.06	366.22
352.05	361.85	353.70	362.52	355.40	367.40	357.07	377.59
352.07	355.52	353.71	383.09	355.44	373.55	357.09	372.74
352.09	368.12	353.73	363.37	355.47	380.16	357.12	363.25
352.10	390.56	353.74	367.66	355.50	372.54	357.13	369.80
352.13	350.70	353.75	370.85	355.51	372.96	357.14	369.00
352.14	353.56	353.77	361.54	355.54	373.38	357.15	374.64
352.16	356.57	353.78	362.77	355.55	366.28	357.17	382.72
352.19	392.14	353.80	390.29	355.62	360.22	357.18	358.32
352.20	380.85	353.83	361.30	355.65	365.93	357.19	362.11

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
357.21	381.94	358.89	377.96	360.35	378.38	362.01	367.76
357.24	371.80	358.91	361.30	360.36	383.69	362.02	377.99
357.25	372.27	358.94	371.59	360.41	366.48	362.03	355.53
357.26	372.50	358.95	362.82	360.47	372.38	362.08	386.39
357.28	361.20	358.98	379.46	360.49	379.43	362.12	381.84
357.32	382.11	359.00	378.06	360.52	367.53	362.13	365.97
357.33	458.80	359.01	379.47	360.55	381.02	362.15	368.04
357.36	366.45	359.03	368.20	360.62	369.61	362.16	383.62
357.38	353.05	359.04	367.42	360.67	393.91	362.18	377.04
357.42	382.66	359.05	366.39	360.68	388.90	362.19	377.50
357.43	345.27	359.07	371.94	360.75	364.47	362.23	387.59
357.44	371.62	359.10	371.96	360.79	371.50	362.24	386.41
357.49	372.86	359.11	371.54	360.80	501.21	362.25	373.55
357.50	364.43	359.16	371.19	360.86	398.00	362.27	377.43
357.51	377.04	359.17	384.72	360.88	384.12	362.30	374.56
357.55	370.39	359.22	415.41	360.89	374.28	362.38	388.25
357.60	375.71	359.23	367.12	360.90	370.50	362.41	377.82
357.62	360.69	359.25	369.61	360.96	378.06	362.44	371.89
357.63	389.13	359.26	374.57	360.98	359.55	362.45	366.52
357.64	360.53	359.27	390.83	361.02	365.26	362.49	373.40
357.68	367.46	359.28	382.25	361.04	371.48	362.50	380.59
357.72	367.06	359.29	368.71	361.05	386.73	362.51	377.19
357.82	372.07	359.34	427.80	361.09	371.74	362.55	374.72
357.85	370.02	359.38	376.28	361.10	388.95	362.58	372.01
357.87	344.92	359.40	377.30	361.11	397.26	362.63	372.39
357.88	372.55	359.42	378.88	361.16	361.02	362.66	366.27
357.89	375.73	359.44	347.31	361.18	365.17	362.67	367.74
357.92	376.77	359.49	380.29	361.20	378.00	362.71	372.62
357.98	366.46	359.51	350.99	361.21	382.67	362.73	377.30
357.99	373.00	359.52	373.77	361.22	375.88	362.74	381.44
358.00	379.95	359.54	374.31	361.23	381.63	362.81	383.57
358.05	366.77	359.55	357.80	361.25	381.42	362.95	387.52
358.09	362.64	359.56	368.17	361.30	579.97	362.96	366.89
358.13	368.27	359.59	373.69	361.33	371.14	363.06	402.80
358.17	374.74	359.60	370.92	361.38	387.21	363.07	378.03
358.18	373.09	359.71	367.85	361.40	376.55	363.08	369.45
358.23	365.61	359.72	370.63	361.45	377.98	363.09	383.19
358.28	382.49	359.74	364.17	361.46	370.28	363.12	380.86
358.29	377.31	359.77	385.34	361.47	375.53	363.15	365.20
358.30	360.86	359.83	391.11	361.51	372.50	363.19	371.75
358.31	387.16	359.84	356.28	361.53	365.05	363.21	379.31
358.33	377.56	359.85	382.03	361.55	381.88	363.22	366.87
358.34	379.07	359.86	371.02	361.59	380.72	363.23	383.05
358.40	365.10	359.87	363.37	361.61	372.42	363.25	368.74
358.42	365.76	359.88	363.21	361.62	386.07	363.30	366.40
358.43	373.50	359.92	374.85	361.63	390.74	363.34	382.13
358.46	371.79	359.94	365.56	361.65	404.75	363.35	351.93
358.51	389.70	360.00	360.75	361.68	367.81	363.37	373.08
358.62	354.60	360.02	373.25	361.73	377.97	363.39	375.36
358.63	360.26	360.06	377.93	361.78	372.08	363.42	379.67
358.68	365.33	360.08	374.52	361.79	379.75	363.46	377.36
358.69	375.65	360.10	371.89	361.83	370.44	363.49	446.25
358.70	380.28	360.12	349.20	361.84	371.37	363.51	376.15
358.72	394.11	360.14	367.10	361.86	368.56	363.53	376.62
358.76	372.89	360.20	360.90	361.91	395.43	363.57	372.02
358.78	366.93	360.21	369.69	361.92	403.22	363.62	360.18
358.81	376.97	360.22	372.50	361.93	370.63	363.68	388.70
358.82	382.03	360.25	373.41	361.95	372.43	363.71	375.48
358.87	485.54	360.29	380.76	361.98	387.23	363.73	530.96
358.88	391.44	360.34	369.75	361.99	381.38	363.75	382.37

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
363.76	373.14	365.45	388.32	366.72	399.15	368.07	373.91
363.79	381.82	365.51	373.88	366.74	385.30	368.08	367.25
363.84	367.83	365.52	364.26	366.75	378.07	368.11	382.61
363.86	388.35	365.53	378.48	366.76	382.56	368.14	391.85
363.87	370.97	365.54	375.14	366.79	396.84	368.19	386.97
363.94	377.87	365.56	396.65	366.81	379.71	368.20	377.45
363.99	373.04	365.57	380.58	366.84	386.57	368.21	386.42
364.01	381.31	365.59	380.44	366.85	382.77	368.22	382.70
364.10	372.27	365.60	373.90	366.86	380.61	368.24	389.29
364.13	381.63	365.61	363.95	366.87	381.88	368.27	376.09
364.15	373.42	365.63	370.11	366.89	394.88	368.30	389.71
364.17	377.55	365.67	370.90	366.92	380.17	368.33	384.52
364.19	371.94	365.68	381.84	366.98	376.21	368.39	385.95
364.20	401.06	365.74	379.29	367.00	375.06	368.41	387.20
364.26	372.54	365.75	378.14	367.01	387.26	368.46	388.39
364.27	388.33	365.76	374.68	367.04	384.56	368.47	369.80
364.28	373.78	365.79	373.41	367.05	386.95	368.48	397.54
364.29	368.86	365.80	386.20	367.08	380.26	368.50	386.17
364.32	362.42	365.81	375.38	367.11	379.07	368.54	381.32
364.33	393.85	365.83	382.49	367.12	378.59	368.59	374.12
364.35	374.69	365.86	382.01	367.15	383.21	368.61	379.21
364.44	372.01	365.90	368.47	367.16	396.67	368.62	385.36
364.45	386.38	365.91	375.30	367.19	380.90	368.63	378.21
364.46	365.85	365.93	379.66	367.22	379.68	368.71	382.54
364.49	376.02	365.94	379.20	367.32	375.06	368.73	389.39
364.51	379.12	365.96	374.06	367.33	378.57	368.76	381.73
364.53	405.40	365.99	383.13	367.35	380.75	368.77	390.80
364.54	386.24	366.00	388.50	367.36	366.03	368.78	385.12
364.56	367.50	366.03	395.70	367.39	369.67	368.80	475.67
364.57	394.79	366.04	407.10	367.40	369.34	368.85	394.12
364.58	373.53	366.05	375.80	367.45	379.11	368.88	368.23
364.65	380.18	366.11	394.56	367.47	383.93	368.91	398.99
364.66	369.74	366.13	380.83	367.48	387.68	368.93	382.56
364.68	383.18	366.15	386.48	367.50	371.47	368.94	378.53
364.71	368.70	366.18	383.34	367.52	351.74	368.95	378.29
364.74	369.40	366.19	391.65	367.56	381.92	368.97	390.59
364.76	384.04	366.24	375.17	367.60	379.42	368.98	386.02
364.78	368.70	366.26	373.11	367.61	388.49	369.04	379.90
364.80	383.38	366.32	375.18	367.63	390.32	369.05	390.26
364.83	380.62	366.33	379.19	367.65	379.03	369.06	607.93
364.86	380.63	366.34	373.20	367.67	376.18	369.10	401.06
364.90	373.89	366.38	376.31	367.68	397.96	369.14	389.02
364.93	380.84	366.40	386.78	367.73	380.79	369.15	384.00
364.98	381.39	366.42	381.79	367.75	362.59	369.16	374.71
365.00	373.71	366.44	375.41	367.77	382.25	369.19	381.89
365.06	378.64	366.45	380.94	367.78	376.25	369.21	383.45
365.07	370.69	366.46	380.15	367.79	406.28	369.22	395.43
365.08	374.73	366.47	397.32	367.82	399.18	369.23	371.28
365.09	385.53	366.49	373.98	367.84	386.41	369.24	384.56
365.10	390.48	366.51	376.39	367.86	391.80	369.26	384.13
365.16	374.41	366.53	378.31	367.88	409.69	369.28	392.95
365.18	375.77	366.54	441.04	367.89	371.37	369.30	367.67
365.21	391.60	366.56	392.96	367.90	391.08	369.31	393.68
365.22	365.75	366.57	376.22	367.91	401.63	369.38	382.56
365.25	378.94	366.61	370.83	367.92	381.05	369.41	389.73
365.28	370.69	366.62	384.10	367.95	380.00	369.46	383.39
365.30	368.84	366.65	374.05	367.96	371.24	369.47	383.93
365.33	371.39	366.67	374.02	367.99	373.25	369.48	380.86
365.37	374.96	366.70	370.50	368.04	416.15	369.50	373.02
365.38	498.75	366.71	392.07	368.05	397.36	369.54	380.99

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
369.55	385.18	370.79	389.36	372.41	388.49	373.75	387.15
369.57	380.99	370.80	374.11	372.45	394.33	373.76	403.07
369.59	389.87	370.89	388.34	372.46	380.85	373.77	379.18
369.61	388.16	370.91	379.28	372.48	378.89	373.79	388.26
369.64	379.08	370.92	399.58	372.50	383.50	373.81	375.28
369.65	369.22	370.94	384.33	372.53	374.18	373.82	384.10
369.69	385.76	370.97	390.80	372.54	394.19	373.83	401.68
369.70	399.80	370.99	390.94	372.56	381.98	373.85	391.46
369.72	369.97	371.03	374.23	372.57	383.44	373.86	378.39
369.77	372.23	371.06	394.38	372.58	393.24	373.87	392.36
369.78	373.47	371.07	379.75	372.59	383.99	373.88	383.41
369.79	378.87	371.09	387.33	372.60	390.06	373.89	382.72
369.81	376.62	371.14	375.20	372.61	385.98	373.93	386.65
369.82	380.91	371.16	375.10	372.62	396.13	373.94	409.59
369.84	367.78	371.21	388.51	372.65	390.54	373.96	388.91
369.85	379.97	371.22	379.34	372.68	384.51	373.98	380.69
369.86	396.74	371.24	394.66	372.70	400.90	374.00	382.89
369.87	387.85	371.26	388.54	372.72	386.95	374.02	380.50
369.89	389.73	371.28	390.37	372.74	380.79	374.03	417.76
369.93	391.43	371.39	387.52	372.78	375.25	374.04	390.13
369.94	384.82	371.40	388.65	372.79	385.39	374.08	380.33
369.99	388.51	371.41	388.14	372.80	387.08	374.10	396.40
370.00	379.01	371.45	404.23	372.82	386.58	374.12	508.33
370.03	381.53	371.48	386.69	372.83	376.18	374.13	394.06
370.04	382.05	371.50	382.43	372.85	383.64	374.15	373.66
370.05	369.97	371.51	386.67	372.86	387.34	374.16	388.77
370.06	356.81	371.52	392.14	372.90	384.57	374.17	389.32
370.07	377.29	371.53	379.51	372.92	373.19	374.19	404.58
370.08	389.73	371.55	385.89	372.98	388.11	374.20	387.49
370.10	385.95	371.58	396.60	373.00	376.06	374.21	376.58
370.12	387.40	371.62	382.66	373.01	402.38	374.27	389.73
370.13	392.19	371.68	370.13	373.02	398.86	374.31	380.00
370.17	377.13	371.69	383.51	373.06	378.94	374.35	380.25
370.20	395.09	371.71	386.85	373.08	389.45	374.36	394.66
370.23	382.22	371.74	375.74	373.11	378.72	374.39	382.65
370.25	374.17	371.75	375.16	373.12	391.33	374.40	376.49
370.26	390.29	371.79	388.85	373.15	397.39	374.42	389.06
370.34	383.80	371.86	371.60	373.16	379.92	374.43	391.20
370.35	385.14	371.87	394.87	373.19	382.39	374.44	383.05
370.36	388.60	371.88	397.15	373.22	366.13	374.45	392.85
370.38	374.38	371.90	387.69	373.23	396.97	374.46	388.39
370.40	391.53	371.92	375.99	373.24	399.58	374.48	385.96
370.44	395.40	371.93	381.13	373.28	382.27	374.49	391.89
370.46	386.65	371.97	390.14	373.29	370.96	374.50	405.50
370.49	448.13	371.98	381.60	373.30	384.66	374.52	397.75
370.50	385.57	372.00	375.87	373.31	393.71	374.53	378.53
370.52	380.01	372.07	382.92	373.32	370.53	374.55	384.73
370.53	385.16	372.10	376.83	373.35	393.32	374.59	388.37
370.54	378.49	372.15	366.60	373.36	408.63	374.60	387.26
370.55	387.48	372.16	361.84	373.38	392.61	374.61	394.14
370.59	384.56	372.18	377.79	373.44	478.85	374.64	384.61
370.60	400.51	372.19	377.15	373.51	395.45	374.66	383.21
370.61	381.51	372.20	385.55	373.57	392.92	374.67	394.16
370.63	370.48	372.22	373.14	373.58	393.38	374.73	378.39
370.64	377.61	372.23	386.38	373.59	368.57	374.80	389.33
370.67	383.08	372.28	383.22	373.61	392.29	374.86	396.78
370.69	386.91	372.31	387.71	373.62	383.39	374.87	374.57
370.72	380.24	372.33	381.49	373.63	406.56	374.88	393.82
370.74	385.59	372.37	397.69	373.66	389.41	374.90	412.41
370.77	388.18	372.38	386.76	373.71	397.67	374.92	395.60



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
374.94	379.26	376.28	378.82	377.51	388.29	378.98	393.24
374.95	386.92	376.29	379.83	377.52	386.52	379.02	389.91
374.96	378.27	376.32	389.20	377.53	386.07	379.05	394.97
375.01	374.08	376.33	377.01	377.55	380.69	379.11	392.02
375.02	376.11	376.35	389.25	377.64	387.88	379.12	379.34
375.04	385.50	376.36	393.45	377.68	383.07	379.13	388.10
375.06	390.92	376.38	389.81	377.73	392.48	379.15	410.02
375.11	395.27	376.40	380.01	377.82	409.69	379.21	391.06
375.16	405.87	376.41	386.00	377.83	396.40	379.22	387.51
375.18	395.11	376.42	376.33	377.85	406.17	379.23	387.22
375.21	387.65	376.43	380.94	377.88	396.20	379.24	389.21
375.23	390.60	376.46	392.09	377.89	390.27	379.26	402.31
375.24	385.65	376.47	367.37	377.90	395.97	379.27	386.11
375.29	383.34	376.48	378.33	377.91	381.32	379.29	377.36
375.30	395.67	376.50	384.56	377.92	388.70	379.30	377.77
375.33	371.70	376.53	386.30	377.93	386.37	379.32	388.29
375.36	401.51	376.54	412.16	377.97	391.84	379.33	392.28
375.39	373.86	376.55	388.56	378.04	389.68	379.38	388.09
375.40	390.37	376.56	390.17	378.07	398.92	379.42	383.28
375.41	377.53	376.57	384.97	378.09	394.42	379.48	387.17
375.46	387.07	376.58	394.96	378.12	391.69	379.49	388.83
375.47	384.38	376.60	384.77	378.15	382.36	379.50	381.15
375.51	390.33	376.63	397.13	378.16	392.49	379.51	396.96
375.53	393.52	376.67	396.62	378.20	401.13	379.54	397.87
375.54	390.40	376.69	393.86	378.21	392.33	379.55	398.55
375.56	413.48	376.70	381.58	378.23	395.16	379.61	392.50
375.57	372.62	376.72	403.09	378.24	393.05	379.64	395.47
375.59	382.81	376.78	385.95	378.25	392.12	379.65	485.54
375.60	381.02	376.82	395.17	378.26	381.52	379.66	400.04
375.62	407.48	376.83	376.58	378.27	401.10	379.70	401.57
375.64	373.25	376.85	388.48	378.31	384.18	379.72	395.14
375.68	379.41	376.89	404.48	378.37	399.18	379.78	399.24
375.70	371.66	376.93	395.06	378.39	399.42	379.79	400.61
375.73	384.25	376.95	383.17	378.40	390.69	379.82	372.23
375.82	393.26	376.96	384.93	378.41	380.31	379.83	371.06
375.83	390.78	376.97	398.86	378.42	385.63	379.87	380.20
375.84	392.81	376.98	393.37	378.43	392.68	379.88	412.81
375.87	387.11	377.00	383.94	378.46	411.18	379.89	396.57
375.88	390.26	377.01	392.21	378.48	392.21	379.91	388.00
375.89	378.78	377.03	388.03	378.52	383.37	379.93	393.63
375.90	383.19	377.06	385.57	378.53	393.00	379.95	402.15
375.91	399.53	377.11	391.38	378.54	377.10	380.00	395.18
375.92	388.35	377.13	385.07	378.55	392.75	380.02	387.75
375.93	386.48	377.15	413.51	378.57	384.31	380.03	387.39
375.94	379.47	377.16	403.26	378.59	381.99	380.06	380.33
375.99	373.94	377.18	395.64	378.60	387.46	380.10	407.59
376.01	386.18	377.20	375.36	378.63	377.37	380.11	394.12
376.04	406.49	377.22	398.09	378.64	386.09	380.23	388.91
376.05	413.53	377.23	397.68	378.69	398.10	380.24	395.63
376.10	385.14	377.29	390.07	378.72	395.91	380.26	383.65
376.11	401.39	377.30	386.30	378.74	393.37	380.27	394.75
376.12	389.16	377.31	388.81	378.79	385.04	380.30	366.17
376.17	396.05	377.32	403.34	378.80	391.96	380.31	378.13
376.19	383.90	377.36	406.00	378.81	387.56	380.35	393.73
376.20	384.22	377.38	406.41	378.82	392.71	380.36	398.24
376.23	374.43	377.40	392.54	378.83	390.93	380.40	408.17
376.24	383.35	377.46	394.63	378.84	380.70	380.43	385.80
376.25	388.73	377.47	386.94	378.85	382.12	380.45	398.06
376.26	372.27	377.49	393.73	378.94	392.73	380.46	394.80
376.27	410.31	377.50	377.27	378.97	398.35	380.50	393.55

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
380.51	626.19	381.60	408.12	382.82	403.43	384.24	413.03
380.55	379.06	381.61	394.64	382.87	397.09	384.25	394.33
380.56	409.65	381.68	379.36	382.88	387.29	384.28	397.13
380.58	389.62	381.74	495.90	382.91	394.75	384.29	406.56
380.59	384.77	381.75	395.79	382.92	402.18	384.31	400.38
380.60	433.29	381.76	380.71	382.97	391.17	384.33	398.92
380.61	389.67	381.77	388.34	382.99	413.31	384.34	396.87
380.63	389.38	381.80	406.71	383.00	405.58	384.36	403.66
380.65	399.68	381.81	400.70	383.04	396.50	384.37	427.24
380.66	398.31	381.82	390.24	383.06	409.46	384.40	387.44
380.68	393.37	381.83	384.47	383.07	399.56	384.43	404.18
380.69	384.33	381.84	409.44	383.11	393.50	384.45	395.50
380.70	408.68	381.85	405.27	383.12	402.29	384.51	398.52
380.71	392.96	381.86	381.40	383.17	405.68	384.52	401.66
380.75	387.00	381.87	404.54	383.18	386.69	384.54	390.13
380.78	400.30	381.91	373.81	383.19	388.40	384.60	382.61
380.84	394.32	381.98	388.55	383.26	395.07	384.61	393.21
380.85	390.33	381.99	417.11	383.31	396.53	384.65	387.40
380.86	367.46	382.00	398.45	383.35	367.15	384.66	382.40
380.88	408.39	382.01	391.80	383.37	388.68	384.67	398.24
380.89	391.00	382.02	388.17	383.38	409.29	384.68	385.55
380.90	402.09	382.04	419.82	383.40	402.11	384.70	403.85
380.91	382.07	382.06	385.43	383.42	392.05	384.73	399.05
380.92	404.93	382.07	431.19	383.45	392.85	384.74	388.48
380.93	369.09	382.10	395.28	383.46	406.68	384.77	389.21
380.94	386.67	382.11	389.37	383.47	397.55	384.79	414.67
380.95	392.10	382.13	390.73	383.48	387.06	384.82	394.16
380.96	406.44	382.14	405.36	383.52	404.48	384.83	397.67
380.97	364.86	382.16	400.74	383.55	404.24	384.84	393.11
381.01	392.89	382.19	395.60	383.58	420.53	384.85	412.79
381.03	399.33	382.20	349.04	383.61	387.11	384.86	388.66
381.06	395.48	382.21	397.00	383.64	396.27	384.88	392.75
381.10	387.54	382.25	392.69	383.65	400.96	384.89	402.22
381.12	393.82	382.28	403.85	383.68	397.67	384.91	393.96
381.14	402.86	382.29	387.72	383.70	407.67	384.92	401.96
381.17	413.44	382.31	416.88	383.72	387.01	384.93	390.94
381.19	400.08	382.33	417.86	383.75	406.81	384.96	406.74
381.20	424.10	382.35	379.03	383.76	384.91	384.97	373.01
381.21	393.79	382.36	396.16	383.77	392.41	384.98	409.04
381.24	372.85	382.41	412.78	383.79	380.42	384.99	392.84
381.26	384.34	382.42	400.99	383.84	401.53	385.02	407.89
381.28	390.05	382.45	399.28	383.86	398.94	385.04	379.43
381.29	398.86	382.46	396.95	383.87	408.94	385.05	393.83
381.33	390.85	382.47	406.19	383.92	407.48	385.08	388.99
381.35	404.02	382.49	388.56	383.98	396.39	385.13	397.34
381.36	404.94	382.51	389.95	383.99	397.11	385.14	397.91
381.38	404.16	382.53	406.25	384.00	393.49	385.15	389.92
381.40	383.86	382.54	399.04	384.01	402.78	385.20	393.09
381.42	394.33	382.55	383.43	384.02	401.62	385.23	397.58
381.44	393.67	382.57	392.50	384.06	396.17	385.25	397.48
381.46	391.83	382.58	402.30	384.07	399.37	385.26	419.69
381.47	394.20	382.59	386.44	384.08	396.27	385.27	392.44
381.48	387.36	382.60	386.78	384.09	399.89	385.29	392.51
381.50	421.34	382.65	397.16	384.11	407.41	385.30	399.45
381.52	390.84	382.68	386.48	384.12	392.72	385.31	412.41
381.53	389.34	382.70	407.13	384.17	411.48	385.35	413.95
381.55	391.65	382.72	381.30	384.18	407.94	385.38	399.15
381.56	380.60	382.74	390.16	384.20	393.69	385.39	389.39
381.57	412.30	382.75	428.75	384.21	404.40	385.40	404.23
381.59	414.23	382.78	399.75	384.23	366.68	385.43	413.38

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
385.44	392.43	386.59	399.54	387.78	407.74	389.13	395.68
385.45	411.35	386.61	402.61	387.82	379.06	389.21	393.23
385.46	392.35	386.62	552.61	387.85	407.11	389.24	401.97
385.48	411.92	386.63	400.25	387.88	402.37	389.28	393.30
385.53	415.49	386.64	388.66	387.91	399.84	389.30	397.26
385.56	393.77	386.66	395.13	387.92	401.62	389.33	396.44
385.57	388.97	386.68	393.91	387.93	406.81	389.38	397.09
385.58	395.92	386.69	394.39	387.94	402.14	389.39	402.40
385.60	390.98	386.71	417.78	387.95	405.67	389.43	409.73
385.62	390.03	386.72	396.71	388.01	371.48	389.47	401.15
385.63	402.01	386.74	396.92	388.05	574.28	389.50	401.25
385.64	391.70	386.76	399.04	388.07	391.47	389.54	392.24
385.66	387.81	386.79	400.23	388.08	396.59	389.55	417.31
385.68	393.89	386.84	387.00	388.09	394.60	389.57	395.61
385.69	400.00	386.86	407.44	388.10	392.26	389.63	434.30
385.70	402.03	386.87	401.38	388.13	396.74	389.66	393.82
385.73	394.36	386.90	392.89	388.14	406.59	389.67	420.37
385.74	410.92	386.94	395.83	388.15	399.32	389.69	397.46
385.77	377.38	386.95	406.21	388.17	391.80	389.72	412.41
385.78	390.38	386.97	405.84	388.18	391.52	389.74	399.17
385.81	410.74	386.98	391.79	388.21	408.42	389.77	406.27
385.84	397.61	386.99	408.87	388.23	391.81	389.78	403.38
385.86	411.19	387.00	403.47	388.24	407.13	389.79	399.99
385.87	400.97	387.01	396.44	388.25	396.28	389.83	396.51
385.88	420.66	387.05	410.65	388.26	406.75	389.84	396.19
385.90	409.70	387.06	423.03	388.27	410.76	389.85	406.94
385.91	406.94	387.09	413.55	388.29	393.09	389.87	403.87
385.92	387.79	387.10	401.77	388.31	404.72	389.88	400.11
385.95	393.74	387.12	410.77	388.35	375.17	389.89	403.46
385.97	407.69	387.16	396.67	388.37	397.84	389.95	398.79
385.98	402.60	387.17	397.84	388.40	414.51	389.99	391.62
386.04	393.92	387.18	415.44	388.47	382.44	390.01	432.32
386.06	410.94	387.19	406.95	388.48	398.21	390.03	406.36
386.08	396.77	387.20	419.25	388.49	403.03	390.04	390.80
386.09	392.71	387.21	414.31	388.55	407.33	390.09	390.24
386.11	394.23	387.24	383.18	388.57	392.26	390.10	403.33
386.12	406.19	387.27	399.99	388.58	406.83	390.11	412.63
386.13	396.63	387.32	409.06	388.62	393.12	390.13	399.33
386.16	390.42	387.33	411.91	388.63	381.82	390.16	399.80
386.17	385.90	387.36	390.17	388.64	407.40	390.18	419.17
386.18	410.69	387.37	414.78	388.68	397.80	390.20	398.14
386.21	393.44	387.38	380.93	388.73	404.52	390.21	396.90
386.23	438.66	387.43	393.93	388.75	385.54	390.25	394.14
386.24	406.14	387.44	412.74	388.80	423.42	390.26	417.53
386.27	409.00	387.46	419.18	388.82	441.95	390.27	408.59
386.28	396.77	387.48	425.50	388.83	394.53	390.29	411.53
386.29	405.39	387.49	383.17	388.87	392.37	390.30	398.71
386.31	403.00	387.50	394.87	388.89	381.05	390.32	421.46
386.32	400.71	387.51	408.82	388.90	395.70	390.34	398.38
386.35	396.58	387.55	398.21	388.94	409.10	390.36	393.32
386.36	427.76	387.56	404.46	388.95	410.92	390.38	408.40
386.37	395.79	387.57	406.16	388.96	407.48	390.40	397.60
386.38	410.42	387.58	404.63	388.99	406.22	390.43	396.67
386.39	393.28	387.59	394.27	389.00	538.83	390.44	397.64
386.40	401.79	387.64	389.94	389.01	397.76	390.45	412.41
386.41	390.58	387.65	397.04	389.05	403.03	390.46	416.63
386.47	396.14	387.70	388.64	389.06	396.33	390.47	435.09
386.52	406.82	387.74	390.33	389.08	412.33	390.51	396.29
386.56	392.44	387.75	411.28	389.10	427.61	390.52	403.06
386.57	390.32	387.76	402.99	389.11	394.92	390.54	399.52

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
390.55	398.83	391.84	406.20	393.22	402.57	394.38	415.54
390.58	411.52	391.86	401.61	393.23	398.53	394.39	395.09
390.59	421.28	391.89	417.04	393.24	400.07	394.40	417.87
390.61	404.97	391.90	389.18	393.25	412.67	394.41	407.37
390.65	416.25	391.91	422.59	393.26	401.83	394.43	412.58
390.66	402.04	391.92	394.13	393.27	410.21	394.44	400.49
390.67	413.83	391.93	410.23	393.28	407.13	394.48	403.29
390.70	403.10	391.94	397.58	393.29	393.79	394.52	422.38
390.72	422.82	391.95	410.81	393.31	399.35	394.55	392.16
390.74	417.15	391.99	401.33	393.34	423.06	394.56	395.38
390.75	411.28	392.01	407.68	393.35	411.60	394.59	401.76
390.76	407.66	392.02	406.72	393.36	379.93	394.60	403.11
390.80	402.36	392.07	408.55	393.38	392.22	394.61	408.44
390.83	391.82	392.08	401.74	393.39	405.91	394.62	412.98
390.86	409.59	392.12	400.66	393.41	413.32	394.63	402.97
390.87	437.74	392.18	404.40	393.43	410.17	394.64	414.03
390.90	408.63	392.19	436.46	393.47	395.51	394.67	397.72
390.94	423.45	392.21	394.52	393.49	408.99	394.69	402.83
390.95	399.33	392.22	396.02	393.51	431.98	394.71	411.08
390.96	427.90	392.23	405.34	393.52	396.43	394.72	402.98
391.03	398.48	392.25	408.81	393.53	413.60	394.78	410.16
391.05	403.27	392.28	393.59	393.55	399.76	394.80	404.17
391.07	403.67	392.29	400.80	393.56	415.98	394.81	404.33
391.10	402.48	392.30	412.57	393.57	407.61	394.85	393.61
391.17	416.58	392.41	401.79	393.58	418.84	394.90	398.45
391.18	405.42	392.44	412.92	393.59	409.18	394.91	427.57
391.19	420.92	392.45	400.97	393.68	426.06	394.92	412.88
391.27	397.24	392.50	400.71	393.69	403.78	394.93	415.97
391.28	399.04	392.53	402.10	393.70	395.12	394.94	390.87
391.29	398.22	392.54	407.25	393.71	381.89	394.95	411.11
391.31	399.28	392.55	395.84	393.73	401.11	395.00	403.49
391.32	398.31	392.57	403.47	393.74	408.01	395.03	400.24
391.34	410.22	392.58	423.01	393.75	433.12	395.04	399.10
391.35	407.89	392.60	437.76	393.80	416.35	395.07	406.91
391.37	396.69	392.61	393.56	393.82	417.13	395.10	406.97
391.38	416.47	392.72	410.71	393.83	398.56	395.11	397.55
391.40	410.91	392.77	410.67	393.84	422.36	395.13	419.42
391.42	396.52	392.78	404.39	393.85	410.62	395.14	410.58
391.44	405.42	392.81	413.84	393.87	414.46	395.16	396.16
391.45	407.43	392.83	413.85	393.89	395.24	395.17	404.01
391.46	404.80	392.84	399.62	393.91	402.59	395.18	405.19
391.47	382.58	392.86	393.03	393.92	408.85	395.19	417.97
391.49	404.59	392.87	394.56	393.93	425.08	395.22	406.69
391.50	407.58	392.88	427.14	393.94	406.09	395.24	424.98
391.51	383.50	392.89	401.18	393.95	400.82	395.25	406.65
391.54	404.22	392.91	412.08	393.96	409.33	395.27	399.18
391.55	405.36	392.92	398.22	393.98	412.80	395.32	405.33
391.62	642.01	392.95	421.13	393.99	395.94	395.34	409.76
391.64	379.07	392.99	396.77	394.01	410.10	395.36	388.40
391.65	403.76	393.00	413.67	394.06	401.23	395.42	421.53
391.66	399.95	393.01	396.40	394.12	417.15	395.43	394.88
391.67	428.93	393.03	401.49	394.13	418.17	395.44	412.34
391.69	405.99	393.05	397.70	394.14	416.90	395.47	409.48
391.70	407.13	393.07	405.76	394.23	403.48	395.49	395.62
391.71	397.56	393.12	413.89	394.24	398.36	395.52	386.10
391.73	421.97	393.13	417.23	394.26	396.54	395.53	398.31
391.76	404.12	393.14	404.05	394.28	418.60	395.54	396.39
391.80	379.21	393.15	420.70	394.32	405.09	395.55	424.09
391.82	391.91	393.16	410.74	394.35	391.11	395.58	404.33
391.83	389.80	393.19	423.05	394.36	426.56	395.61	395.90

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
395.65	397.61	396.81	415.75	397.83	424.57	398.95	411.46
395.67	407.47	396.82	412.23	397.84	410.50	398.97	393.08
395.68	405.74	396.85	404.10	397.87	424.31	399.00	418.53
395.71	383.76	396.87	422.76	397.90	401.20	399.02	410.68
395.73	422.85	396.88	398.16	397.92	405.68	399.03	395.90
395.74	407.50	396.89	417.71	397.94	404.61	399.04	403.04
395.75	399.84	396.92	403.17	397.96	410.35	399.07	417.22
395.76	405.52	396.95	418.75	397.97	399.24	399.09	418.84
395.77	423.31	396.96	404.93	397.98	412.22	399.14	422.59
395.78	397.74	397.00	411.55	397.99	403.24	399.15	386.12
395.79	415.69	397.03	397.02	398.02	408.45	399.16	429.43
395.80	407.44	397.05	416.59	398.05	408.03	399.17	417.57
395.81	398.66	397.06	420.55	398.06	407.24	399.19	411.72
395.84	392.96	397.07	421.68	398.07	407.85	399.20	405.56
395.86	412.48	397.09	409.55	398.09	394.50	399.21	392.03
395.87	393.16	397.11	395.00	398.12	409.07	399.25	400.66
395.88	393.29	397.14	413.89	398.14	406.51	399.26	408.42
395.90	440.40	397.17	413.63	398.16	415.45	399.28	410.53
395.92	400.19	397.19	415.83	398.17	434.67	399.29	411.96
395.94	411.47	397.20	402.83	398.22	409.49	399.30	392.43
395.95	410.24	397.23	405.35	398.24	406.31	399.31	401.05
395.96	392.10	397.24	397.68	398.26	429.63	399.33	406.53
395.99	385.60	397.25	423.36	398.28	412.84	399.36	412.42
396.00	394.11	397.26	405.54	398.29	407.76	399.37	387.70
396.01	404.15	397.27	423.53	398.35	398.61	399.38	408.45
396.02	383.00	397.28	419.71	398.37	402.14	399.39	395.77
396.03	410.57	397.32	412.60	398.40	421.13	399.40	420.66
396.05	409.24	397.34	421.35	398.41	402.29	399.43	397.86
396.08	431.03	397.35	424.46	398.42	416.35	399.44	416.13
396.11	377.53	397.38	395.17	398.43	414.34	399.46	401.48
396.12	407.21	397.40	413.89	398.44	411.89	399.47	391.32
396.13	402.53	397.41	408.45	398.45	409.65	399.48	402.53
396.14	412.62	397.42	407.89	398.49	419.87	399.51	400.10
396.15	401.84	397.43	429.01	398.50	410.04	399.52	430.84
396.16	417.54	397.44	421.89	398.51	410.60	399.53	416.82
396.17	403.65	397.46	412.74	398.52	415.14	399.54	429.71
396.18	408.62	397.47	399.58	398.55	403.60	399.56	413.21
396.22	415.69	397.49	414.61	398.56	405.93	399.59	413.61
396.23	420.48	397.50	411.77	398.58	413.91	399.60	421.46
396.24	395.72	397.52	401.81	398.59	402.15	399.62	416.28
396.34	404.84	397.53	414.98	398.60	425.57	399.64	387.25
396.35	417.75	397.54	415.89	398.61	412.67	399.65	412.88
396.41	403.72	397.56	406.48	398.62	420.98	399.66	410.41
396.42	401.23	397.57	406.59	398.64	416.53	399.68	414.88
396.44	397.20	397.58	405.50	398.67	409.75	399.69	418.98
396.45	408.01	397.60	394.63	398.74	390.42	399.71	421.60
396.48	415.81	397.61	408.56	398.75	416.96	399.72	425.57
396.51	418.01	397.62	425.03	398.78	388.83	399.75	408.28
396.52	401.05	397.63	413.91	398.79	405.29	399.76	404.86
396.53	413.91	397.65	423.22	398.80	400.11	399.77	410.94
396.60	419.46	397.66	431.77	398.81	438.76	399.79	396.24
396.62	407.06	397.67	404.90	398.83	418.94	399.82	411.84
396.65	413.02	397.68	380.47	398.85	395.20	399.83	422.87
396.66	400.94	397.70	396.71	398.86	399.87	399.85	416.56
396.67	404.82	397.72	428.43	398.87	423.51	399.87	407.63
396.69	407.41	397.73	421.66	398.88	414.88	399.88	409.38
396.70	407.77	397.74	407.81	398.89	415.56	399.92	423.57
396.71	401.41	397.77	410.47	398.90	398.03	399.95	410.78
396.72	423.96	397.78	401.48	398.91	405.53	399.97	418.91
396.76	394.62	397.80	431.92	398.92	400.34	399.99	411.84

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
400.00	419.83	401.31	402.88	402.32	407.93	403.45	411.86
400.01	412.29	401.33	411.47	402.33	422.51	403.47	400.17
400.03	424.64	401.34	396.88	402.34	410.75	403.48	413.43
400.04	423.10	401.35	417.74	402.36	436.52	403.49	409.67
400.05	413.14	401.38	408.13	402.37	419.62	403.52	421.49
400.09	449.48	401.41	417.40	402.40	423.31	403.53	403.86
400.10	416.29	401.42	429.22	402.42	408.14	403.54	402.61
400.12	398.15	401.43	416.65	402.47	408.31	403.56	403.27
400.17	426.87	401.44	419.37	402.48	398.24	403.57	416.54
400.20	419.35	401.45	413.88	402.52	420.16	403.58	418.22
400.21	413.32	401.46	409.92	402.53	429.39	403.59	413.50
400.22	413.40	401.47	400.48	402.54	404.38	403.60	404.25
400.23	412.84	401.49	402.97	402.55	410.22	403.61	433.10
400.25	401.69	401.50	415.00	402.56	425.54	403.62	405.97
400.26	407.10	401.52	395.56	402.57	429.67	403.65	415.16
400.31	403.53	401.55	419.57	402.60	408.98	403.66	413.10
400.33	401.35	401.56	407.72	402.61	415.95	403.67	408.85
400.35	420.86	401.57	410.12	402.62	407.11	403.69	418.78
400.38	429.46	401.60	435.99	402.63	414.81	403.70	411.75
400.40	427.77	401.61	602.99	402.64	420.50	403.71	427.66
400.43	405.82	401.62	395.10	402.66	401.74	403.72	417.10
400.44	407.80	401.63	429.79	402.68	407.89	403.74	430.52
400.46	415.61	401.67	409.73	402.70	403.58	403.75	416.95
400.47	409.85	401.68	413.21	402.71	413.34	403.78	427.08
400.48	422.17	401.70	406.83	402.72	416.14	403.93	418.58
400.49	422.87	401.73	432.52	402.73	403.17	403.94	411.11
400.51	418.51	401.77	412.48	402.74	411.75	403.96	425.41
400.53	402.36	401.78	406.07	402.75	418.74	403.97	425.12
400.56	417.77	401.79	410.96	402.76	424.66	404.01	420.50
400.57	419.93	401.81	417.39	402.78	414.38	404.04	396.79
400.59	408.26	401.83	418.22	402.79	418.74	404.06	407.91
400.61	418.72	401.85	425.71	402.80	412.41	404.07	407.95
400.62	406.55	401.86	413.03	402.82	415.26	404.08	409.92
400.63	406.70	401.90	412.49	402.90	417.01	404.09	403.79
400.64	416.02	401.93	390.80	402.92	408.23	404.12	404.38
400.65	405.97	401.94	409.12	402.94	394.57	404.15	413.73
400.69	410.47	401.97	397.28	402.96	413.62	404.16	400.87
400.70	416.41	402.02	418.89	402.97	411.04	404.18	406.02
400.72	409.46	402.03	414.52	402.98	433.56	404.19	434.41
400.73	411.99	402.06	422.54	402.99	420.20	404.21	417.01
400.79	415.89	402.07	414.33	403.01	442.02	404.25	425.38
400.83	402.43	402.08	413.44	403.02	407.70	404.26	415.73
400.84	403.65	402.10	413.38	403.04	405.91	404.27	412.67
400.86	418.54	402.11	400.08	403.09	409.97	404.31	423.04
400.94	429.55	402.12	398.65	403.10	415.04	404.32	409.14
400.95	413.98	402.13	413.01	403.11	411.29	404.33	410.70
400.97	407.66	402.14	426.42	403.12	429.80	404.35	416.42
400.98	411.65	402.15	407.37	403.13	411.30	404.37	421.29
400.99	414.12	402.17	422.68	403.16	412.10	404.39	421.52
401.00	416.04	402.18	423.79	403.19	405.03	404.40	396.92
401.01	423.19	402.19	422.53	403.20	410.43	404.42	424.30
401.03	402.25	402.20	410.67	403.23	407.47	404.45	404.92
401.07	398.74	402.21	398.90	403.26	410.06	404.47	442.62
401.08	398.33	402.23	417.91	403.30	407.38	404.49	404.85
401.10	429.47	402.24	403.11	403.31	411.72	404.50	407.63
401.14	412.85	402.25	391.73	403.36	408.11	404.52	422.70
401.17	410.88	402.27	424.95	403.37	431.62	404.53	432.02
401.20	417.61	402.29	415.29	403.39	416.13	404.54	412.21
401.26	414.51	402.30	408.97	403.40	421.05	404.55	410.93
401.28	390.52	402.31	409.05	403.44	414.96	404.56	414.39

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
404.57	418.95	405.82	414.76	407.12	425.43	408.21	442.19
404.58	397.30	405.88	423.00	407.14	425.79	408.25	425.63
404.59	407.61	405.89	403.61	407.15	448.48	408.26	406.32
404.61	414.48	405.91	430.86	407.17	405.03	408.27	426.16
404.63	417.14	405.94	426.58	407.18	422.51	408.30	408.01
404.64	415.17	405.96	417.41	407.19	422.06	408.31	409.65
404.68	413.12	405.98	414.51	407.23	410.69	408.32	401.62
404.70	419.87	405.99	453.06	407.24	414.16	408.34	405.13
404.71	413.08	406.00	433.58	407.26	403.30	408.35	429.11
404.74	423.18	406.03	416.32	407.28	414.69	408.36	430.70
404.79	416.07	406.05	412.73	407.32	421.17	408.38	423.18
404.81	395.30	406.07	407.59	407.33	410.80	408.43	424.11
404.82	406.64	406.08	401.62	407.34	411.15	408.44	408.69
404.84	416.20	406.12	415.02	407.35	429.84	408.46	398.53
404.87	419.82	406.14	408.55	407.38	424.72	408.47	414.62
404.88	419.68	406.17	423.12	407.39	413.68	408.49	423.58
404.93	407.16	406.23	397.12	407.40	420.27	408.50	419.57
404.94	419.36	406.24	409.17	407.41	419.49	408.51	446.02
404.95	411.83	406.27	409.06	407.43	414.11	408.52	416.90
404.96	420.74	406.29	414.65	407.46	411.14	408.53	419.85
404.97	438.39	406.30	418.85	407.48	425.98	408.57	407.52
405.02	430.21	406.34	422.00	407.49	409.11	408.58	420.52
405.07	412.46	406.35	414.44	407.51	424.11	408.59	411.95
405.11	415.72	406.36	417.58	407.54	447.42	408.60	421.47
405.12	423.85	406.37	414.24	407.57	428.97	408.61	422.22
405.16	416.94	406.38	425.98	407.60	452.55	408.63	429.19
405.19	431.92	406.39	408.16	407.61	429.37	408.65	414.06
405.26	405.48	406.40	400.22	407.63	437.24	408.67	411.19
405.29	418.85	406.46	395.12	407.64	428.17	408.69	429.78
405.30	440.70	406.51	403.92	407.65	427.42	408.70	418.72
405.31	424.62	406.52	415.07	407.67	412.16	408.71	411.81
405.34	410.07	406.54	429.33	407.68	420.35	408.72	421.73
405.35	417.99	406.56	410.13	407.71	421.05	408.73	417.85
405.36	399.47	406.58	417.60	407.73	432.92	408.77	421.86
405.38	407.20	406.59	412.82	407.78	419.96	408.78	415.78
405.40	439.39	406.60	408.37	407.82	399.09	408.80	419.82
405.42	421.74	406.68	425.61	407.83	421.36	408.81	434.63
405.44	431.23	406.70	401.93	407.84	421.14	408.82	423.61
405.45	425.96	406.71	427.09	407.85	420.03	408.87	425.19
405.46	437.74	406.74	417.32	407.86	418.34	408.89	418.89
405.47	403.08	406.75	405.68	407.87	422.34	408.90	415.16
405.49	425.18	406.76	415.93	407.89	414.81	408.92	430.25
405.51	420.29	406.79	416.99	407.90	427.59	408.93	414.93
405.53	407.65	406.80	415.25	407.91	425.71	408.96	418.21
405.54	415.79	406.82	416.12	407.92	414.46	408.97	417.14
405.56	409.36	406.83	405.32	407.93	429.53	408.98	402.25
405.58	430.25	406.84	416.00	407.94	410.08	408.99	420.38
405.60	438.80	406.85	407.60	407.96	419.23	409.01	438.19
405.62	426.98	406.89	423.55	407.98	420.12	409.02	427.22
405.63	416.32	406.91	419.43	407.99	424.18	409.03	426.46
405.66	414.94	406.92	441.23	408.02	415.97	409.04	429.40
405.68	415.78	406.93	421.74	408.03	419.37	409.07	435.14
405.69	422.89	406.95	419.73	408.06	425.29	409.08	418.36
405.70	413.31	406.98	420.15	408.07	410.96	409.10	420.80
405.74	429.55	406.99	422.47	408.09	423.62	409.12	419.63
405.76	415.93	407.01	422.26	408.11	418.49	409.14	422.12
405.77	403.33	407.05	431.37	408.12	428.90	409.18	410.69
405.78	408.98	407.06	415.07	408.14	431.55	409.20	417.65
405.80	446.03	407.07	431.77	408.17	405.74	409.23	410.50
405.81	422.93	407.08	408.49	408.20	412.73	409.24	428.89

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
409.25	419.42	410.44	401.44	411.52	405.83	412.60	422.82
409.29	407.01	410.45	417.79	411.53	430.09	412.62	430.32
409.31	412.65	410.46	438.50	411.56	412.85	412.63	424.04
409.32	427.95	410.48	426.93	411.57	433.59	412.64	446.03
409.40	407.33	410.50	441.27	411.58	416.58	412.66	423.76
409.41	426.19	410.52	425.86	411.61	423.40	412.67	433.59
409.44	442.29	410.53	418.35	411.62	423.54	412.71	417.48
409.45	413.42	410.54	430.06	411.64	413.98	412.73	445.58
409.46	413.53	410.55	433.65	411.65	418.22	412.74	408.39
409.47	408.31	410.56	429.08	411.66	426.43	412.75	438.37
409.50	418.57	410.58	419.31	411.72	442.74	412.76	426.60
409.51	410.60	410.59	445.40	411.75	427.33	412.77	413.06
409.52	422.37	410.62	426.20	411.76	422.15	412.78	418.30
409.53	407.93	410.63	431.00	411.78	440.71	412.79	422.43
409.54	431.73	410.67	420.91	411.80	434.88	412.80	431.44
409.55	422.83	410.69	418.70	411.82	420.64	412.81	437.48
409.56	424.75	410.71	423.50	411.83	425.19	412.82	421.90
409.57	432.15	410.72	415.59	411.84	426.63	412.83	425.99
409.58	423.08	410.73	423.16	411.86	425.37	412.84	415.97
409.59	427.38	410.74	413.09	411.88	439.46	412.86	439.19
409.60	426.11	410.75	428.77	411.95	443.57	412.88	432.35
409.63	416.23	410.76	437.82	411.96	424.43	412.90	424.66
409.65	419.96	410.79	427.44	411.97	423.61	412.91	422.69
409.67	413.72	410.80	433.24	412.00	433.73	412.93	427.96
409.71	411.59	410.82	411.54	412.01	426.09	412.96	414.94
409.74	415.10	410.83	419.00	412.03	399.95	412.99	414.38
409.78	444.72	410.84	429.89	412.06	417.13	413.01	406.60
409.79	428.42	410.87	423.51	412.07	468.40	413.03	427.68
409.81	416.40	410.91	424.76	412.08	423.72	413.05	428.16
409.83	440.05	410.92	422.68	412.09	429.21	413.07	415.14
409.85	435.41	410.93	423.47	412.10	418.05	413.09	409.31
409.86	418.63	410.95	422.86	412.11	409.01	413.15	426.47
409.89	417.90	410.96	419.08	412.15	429.33	413.17	434.16
409.90	409.50	411.00	430.91	412.18	438.49	413.26	424.10
409.91	431.25	411.02	426.79	412.19	430.43	413.29	423.39
409.92	418.99	411.03	418.00	412.21	420.09	413.30	443.73
409.94	426.00	411.06	427.39	412.22	419.53	413.31	442.83
409.95	416.85	411.09	418.09	412.26	439.68	413.32	427.33
409.98	409.47	411.10	417.63	412.27	420.58	413.33	430.08
409.99	422.63	411.11	422.14	412.28	428.74	413.35	432.01
410.04	408.81	411.12	422.52	412.29	424.87	413.37	418.24
410.08	421.76	411.13	417.39	412.30	420.82	413.39	415.61
410.10	425.91	411.19	412.62	412.32	407.68	413.41	417.60
410.11	427.64	411.20	418.36	412.33	423.70	413.42	429.54
410.12	418.35	411.21	410.32	412.35	425.26	413.43	421.38
410.15	424.59	411.22	419.61	412.36	416.43	413.44	432.36
410.16	415.22	411.26	436.74	412.37	417.18	413.45	423.18
410.17	419.15	411.28	420.77	412.39	412.69	413.46	424.10
410.18	425.33	411.29	410.69	412.40	430.79	413.49	416.98
410.19	419.61	411.30	412.71	412.41	416.68	413.50	414.34
410.21	422.01	411.31	424.52	412.43	418.42	413.53	405.60
410.23	410.27	411.32	448.35	412.44	422.19	413.56	424.84
410.26	418.03	411.35	423.17	412.47	427.79	413.58	429.18
410.27	412.66	411.37	428.69	412.49	426.88	413.60	437.63
410.30	408.60	411.38	423.51	412.50	435.64	413.61	444.27
410.31	419.65	411.39	425.08	412.51	418.42	413.62	429.54
410.32	429.86	411.42	424.34	412.53	410.26	413.63	415.25
410.34	405.73	411.44	410.48	412.57	415.13	413.64	441.72
410.39	426.08	411.50	433.67	412.58	424.80	413.66	423.33
410.41	420.22	411.51	414.44	412.59	425.76	413.67	414.79



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
413.69	414.86	414.76	417.93	415.80	459.20	416.82	420.78
413.70	440.62	414.79	425.70	415.82	426.96	416.84	424.76
413.71	422.34	414.80	422.06	415.85	442.37	416.85	412.61
413.73	431.62	414.81	430.59	415.86	414.14	416.87	424.94
413.74	417.15	414.82	442.81	415.88	411.57	416.88	432.99
413.77	425.90	414.83	426.02	415.89	444.83	416.89	412.06
413.80	428.99	414.84	421.07	415.92	436.87	416.90	435.10
413.83	422.32	414.85	432.05	415.93	440.34	416.91	434.40
413.86	418.59	414.86	424.10	415.94	422.06	416.93	414.81
413.87	414.87	414.91	419.10	415.96	411.10	416.94	419.11
413.89	418.10	414.94	432.71	415.97	428.46	416.99	421.87
413.92	429.91	414.96	440.53	415.98	440.84	417.00	433.66
413.94	415.57	414.98	434.48	416.00	415.11	417.01	430.12
413.95	424.75	415.01	419.74	416.01	433.47	417.02	433.31
413.96	407.86	415.05	425.58	416.02	430.15	417.03	429.37
413.97	424.63	415.06	432.78	416.03	417.27	417.08	438.11
413.99	439.92	415.07	419.55	416.04	414.17	417.09	452.16
414.00	409.41	415.08	437.95	416.05	411.70	417.11	427.60
414.02	428.41	415.10	447.44	416.09	444.26	417.13	428.44
414.04	413.28	415.12	409.94	416.10	420.59	417.17	451.13
414.07	411.00	415.14	428.15	416.11	423.41	417.18	424.11
414.09	439.46	415.15	424.82	416.12	433.57	417.20	432.41
414.10	415.68	415.17	405.55	416.13	433.11	417.23	428.27
414.11	423.83	415.19	435.02	416.14	409.82	417.24	424.73
414.12	434.85	415.20	436.05	416.15	433.39	417.26	439.05
414.13	428.95	415.22	434.22	416.16	425.74	417.28	409.23
414.16	426.63	415.23	412.99	416.17	427.22	417.29	445.48
414.17	417.35	415.25	416.80	416.18	417.82	417.30	436.84
414.20	412.77	415.26	426.25	416.19	428.70	417.31	439.51
414.21	399.92	415.27	424.35	416.20	439.28	417.32	420.58
414.26	415.83	415.30	421.17	416.22	430.34	417.34	409.70
414.27	424.45	415.33	428.57	416.23	418.01	417.35	426.60
414.28	420.70	415.34	415.70	416.28	429.28	417.37	419.97
414.30	422.57	415.35	434.24	416.31	432.42	417.40	426.84
414.31	430.36	415.36	426.13	416.34	431.27	417.41	437.06
414.32	433.62	415.37	428.48	416.35	425.79	417.46	429.67
414.34	434.70	415.39	414.03	416.36	422.94	417.49	436.13
414.36	424.54	415.40	422.42	416.37	430.17	417.52	427.73
414.38	420.95	415.42	440.57	416.39	437.65	417.55	438.62
414.39	420.47	415.43	430.19	416.41	441.11	417.56	429.66
414.41	420.41	415.44	426.96	416.42	413.40	417.58	415.88
414.42	421.76	415.45	424.06	416.45	424.83	417.60	417.94
414.43	415.09	415.46	416.26	416.46	418.86	417.61	446.10
414.44	410.02	415.51	435.72	416.49	435.05	417.62	430.03
414.46	413.72	415.52	422.37	416.50	458.00	417.65	428.39
414.47	433.33	415.58	441.44	416.53	442.24	417.68	441.01
414.49	426.91	415.60	445.72	416.54	413.46	417.74	448.57
414.51	430.83	415.62	412.95	416.55	459.96	417.77	425.31
414.52	437.84	415.66	432.17	416.57	410.98	417.78	427.65
414.53	444.30	415.67	435.99	416.58	421.93	417.79	428.07
414.55	430.57	415.68	436.54	416.63	422.64	417.80	429.00
414.60	412.87	415.69	427.36	416.64	422.16	417.83	429.17
414.61	431.02	415.71	423.64	416.65	428.89	417.85	428.03
414.62	427.93	415.72	436.93	416.66	408.84	417.88	430.47
414.63	456.95	415.73	431.17	416.68	412.20	417.89	443.57
414.64	415.30	415.74	414.84	416.72	402.10	417.90	414.90
414.65	438.25	415.75	432.05	416.73	434.17	417.91	442.44
414.73	424.12	415.77	422.94	416.74	419.71	417.92	417.76
414.74	422.37	415.78	415.40	416.78	418.64	417.93	430.18
414.75	417.05	415.79	424.95	416.79	431.83	417.94	443.53

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
418.01	440.06	419.08	408.80	420.20	443.59	421.24	414.10
418.02	426.02	419.09	421.21	420.22	432.31	421.25	452.46
418.03	444.66	419.10	429.69	420.23	440.71	421.26	418.12
418.06	436.64	419.11	420.66	420.24	424.09	421.27	423.17
418.08	449.18	419.14	436.93	420.25	431.57	421.28	430.92
418.13	424.43	419.16	426.80	420.26	420.03	421.29	431.73
418.15	439.30	419.17	417.36	420.32	425.93	421.35	416.55
418.16	435.12	419.18	418.18	420.33	431.63	421.38	428.14
418.18	431.46	419.20	435.67	420.34	428.08	421.39	420.41
418.19	437.81	419.22	426.30	420.36	423.06	421.40	432.12
418.20	429.75	419.27	423.61	420.37	432.76	421.42	428.97
418.22	441.28	419.30	433.98	420.38	441.05	421.43	423.04
418.23	424.45	419.31	429.03	420.40	426.39	421.44	437.67
418.24	433.92	419.38	417.29	420.41	437.61	421.45	433.50
418.25	429.33	419.39	452.13	420.44	439.40	421.46	447.17
418.26	449.48	419.41	441.50	420.45	435.59	421.49	416.30
418.28	433.12	419.43	417.22	420.46	424.37	421.50	419.27
418.29	424.20	419.44	434.00	420.47	437.02	421.51	428.93
418.30	420.42	419.45	421.34	420.49	427.03	421.52	431.42
418.31	428.40	419.46	436.06	420.52	429.48	421.53	442.16
418.32	431.23	419.47	434.68	420.53	424.61	421.54	428.28
418.33	398.03	419.51	425.02	420.54	419.33	421.57	425.90
418.34	410.61	419.54	428.55	420.56	431.25	421.59	430.53
418.37	428.38	419.55	438.52	420.57	416.00	421.61	419.31
418.38	427.55	419.57	440.39	420.60	442.86	421.62	431.71
418.39	430.60	419.62	416.39	420.61	420.95	421.64	421.35
418.40	434.37	419.63	442.67	420.62	440.45	421.65	403.67
418.41	436.04	419.65	428.50	420.63	418.08	421.66	434.71
418.42	422.43	419.66	429.65	420.65	425.26	421.67	423.66
418.43	419.26	419.68	424.74	420.66	447.38	421.69	443.14
418.46	418.13	419.70	439.80	420.67	431.78	421.71	462.21
418.48	426.46	419.71	437.09	420.68	446.90	421.72	431.89
418.49	433.49	419.72	427.49	420.73	433.29	421.73	440.74
418.50	442.97	419.73	433.52	420.74	421.98	421.74	435.84
418.52	426.56	419.75	425.54	420.76	430.20	421.75	421.03
418.53	441.47	419.76	437.91	420.77	420.72	421.76	443.67
418.57	429.95	419.77	428.93	420.78	436.85	421.77	444.31
418.58	429.21	419.78	423.84	420.79	434.02	421.78	465.91
418.59	432.86	419.82	426.99	420.81	405.78	421.81	426.47
418.61	422.41	419.85	418.80	420.82	425.01	421.82	428.67
418.63	410.76	419.87	421.97	420.84	426.54	421.83	431.27
418.64	435.99	419.90	458.35	420.86	421.74	421.84	433.58
418.65	434.19	419.92	425.45	420.88	436.55	421.85	428.26
418.66	404.08	419.94	425.41	420.90	440.08	421.86	426.31
418.68	430.13	419.95	437.82	420.91	433.60	421.90	442.54
418.69	431.47	419.96	435.17	420.94	417.81	421.93	438.80
418.71	436.19	419.97	436.68	420.97	434.93	421.94	449.00
418.73	457.38	419.98	405.92	421.02	429.04	421.95	436.86
418.76	419.04	420.00	422.09	421.03	442.95	421.96	434.27
418.77	428.89	420.01	419.12	421.06	445.37	421.97	427.62
418.78	418.52	420.04	452.24	421.07	430.54	421.98	416.46
418.79	434.13	420.05	435.28	421.08	434.78	421.99	436.69
418.81	428.55	420.06	428.35	421.10	430.80	422.00	434.43
418.87	425.01	420.07	447.80	421.12	418.05	422.02	428.55
418.89	430.53	420.09	432.67	421.17	436.26	422.03	435.42
418.97	426.91	420.10	444.05	421.18	441.00	422.04	435.71
418.98	424.93	420.11	426.85	421.19	429.05	422.05	440.79
419.00	438.72	420.14	441.90	421.20	434.13	422.06	434.92
419.01	446.43	420.17	439.22	421.22	436.17	422.07	456.54
419.04	424.44	420.19	420.37	421.23	433.16	422.08	435.36

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
422.09	439.17	423.10	455.41	423.99	425.01	424.98	439.90
422.11	437.74	423.11	448.95	424.00	430.54	424.99	424.34
422.13	422.34	423.12	428.65	424.02	444.17	425.00	431.77
422.14	422.35	423.14	440.01	424.04	443.25	425.03	458.42
422.15	436.87	423.15	427.40	424.05	427.51	425.05	439.28
422.17	429.47	423.17	421.27	424.08	438.46	425.06	452.28
422.18	441.26	423.18	435.93	424.09	440.50	425.08	422.23
422.19	430.53	423.19	430.94	424.10	426.44	425.09	438.53
422.20	428.64	423.20	446.63	424.12	442.17	425.13	432.04
422.21	424.63	423.22	423.07	424.14	438.76	425.14	442.29
422.25	427.48	423.23	431.51	424.15	422.27	425.15	433.43
422.28	425.78	423.24	429.51	424.16	429.74	425.17	435.26
422.29	446.86	423.25	440.80	424.20	433.93	425.19	429.63
422.30	431.12	423.27	433.91	424.22	453.79	425.20	443.06
422.31	414.90	423.28	441.60	424.23	458.32	425.21	444.63
422.33	417.69	423.29	434.86	424.26	470.64	425.22	444.63
422.34	418.32	423.30	428.66	424.28	432.01	425.23	419.48
422.35	433.91	423.31	448.06	424.30	423.95	425.25	436.60
422.40	436.46	423.32	451.65	424.32	434.88	425.27	428.00
422.42	439.71	423.35	426.51	424.33	446.09	425.31	432.04
422.46	411.31	423.36	436.24	424.34	429.37	425.32	428.40
422.47	438.32	423.37	425.44	424.35	425.55	425.33	425.85
422.48	435.89	423.38	441.02	424.36	438.92	425.34	428.60
422.49	444.43	423.39	425.09	424.37	444.71	425.35	450.18
422.50	444.41	423.40	421.68	424.38	438.77	425.36	443.29
422.51	442.14	423.42	421.96	424.40	419.40	425.37	428.19
422.52	437.20	423.43	442.21	424.43	419.85	425.38	446.55
422.53	464.22	423.46	444.86	424.44	439.37	425.39	431.80
422.55	438.93	423.48	428.69	424.45	444.66	425.41	437.39
422.58	424.35	423.51	422.28	424.46	414.67	425.42	434.56
422.61	424.51	423.52	423.76	424.48	433.89	425.44	434.23
422.62	437.68	423.53	418.22	424.49	427.00	425.45	428.45
422.63	430.29	423.55	443.89	424.50	431.95	425.46	444.40
422.64	448.27	423.58	441.92	424.51	441.26	425.48	436.10
422.65	433.86	423.60	438.46	424.52	443.76	425.52	439.91
422.70	442.50	423.61	436.68	424.53	438.75	425.53	426.55
422.71	423.16	423.62	424.09	424.55	435.83	425.54	420.04
422.73	430.74	423.64	444.03	424.57	421.04	425.62	450.56
422.74	415.09	423.65	431.20	424.59	434.13	425.63	432.62
422.76	440.87	423.70	416.14	424.60	437.37	425.64	444.22
422.77	418.36	423.71	426.95	424.62	420.21	425.66	439.62
422.81	430.64	423.72	423.11	424.64	421.89	425.67	432.67
422.82	430.62	423.73	430.84	424.65	442.15	425.68	448.14
422.86	446.76	423.74	437.64	424.67	421.97	425.69	435.96
422.87	432.47	423.75	439.85	424.68	443.35	425.70	427.83
422.88	445.58	423.76	426.14	424.70	430.77	425.72	464.15
422.91	434.57	423.77	433.14	424.72	437.58	425.73	450.93
422.93	439.87	423.78	424.79	424.76	427.60	425.76	445.77
422.94	421.28	423.80	449.37	424.78	440.13	425.77	450.64
422.95	432.83	423.82	437.84	424.80	428.91	425.78	427.16
422.97	429.51	423.83	423.78	424.81	418.41	425.80	438.86
422.99	430.81	423.84	452.71	424.85	440.06	425.82	429.07
423.01	448.04	423.85	438.05	424.86	427.60	425.83	438.80
423.02	420.90	423.86	442.31	424.87	434.50	425.86	442.53
423.03	412.61	423.87	443.59	424.89	442.51	425.87	442.63
423.04	431.61	423.89	436.85	424.90	446.27	425.88	439.39
423.05	431.23	423.91	423.14	424.94	440.66	425.89	434.64
423.07	419.13	423.92	458.28	424.95	436.25	425.90	424.78
423.08	426.92	423.94	438.75	424.96	436.89	425.93	445.39
423.09	447.62	423.95	438.71	424.97	441.97	425.95	442.94

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
425.97	432.36	426.86	451.33	427.76	412.35	428.88	439.88
425.98	435.32	426.87	436.52	427.79	441.65	428.89	431.06
425.99	454.02	426.88	441.11	427.83	443.78	428.90	462.75
426.00	437.00	426.89	437.72	427.84	463.04	428.92	449.65
426.01	436.43	426.91	440.90	427.86	428.36	428.93	433.31
426.02	434.97	426.93	448.86	427.87	437.65	428.96	429.26
426.03	438.71	426.95	438.80	427.90	415.26	428.97	428.09
426.04	443.57	426.96	459.13	427.91	441.57	428.98	440.38
426.05	434.73	426.97	440.23	427.92	449.55	429.00	426.79
426.06	435.65	426.98	442.52	427.93	429.04	429.01	423.73
426.08	423.70	427.00	435.46	427.94	436.35	429.02	445.99
426.09	434.69	427.01	439.36	427.95	437.99	429.03	426.04
426.10	425.25	427.04	453.12	427.98	437.82	429.06	424.62
426.12	437.18	427.05	441.47	428.00	455.95	429.08	473.03
426.13	439.39	427.06	409.41	428.01	437.97	429.09	443.84
426.16	430.26	427.07	418.65	428.02	428.01	429.10	442.84
426.18	419.89	427.09	424.45	428.04	433.75	429.11	421.13
426.20	442.62	427.11	446.20	428.06	441.81	429.12	440.15
426.21	446.38	427.13	434.65	428.08	446.94	429.13	454.23
426.22	440.25	427.14	433.39	428.10	459.79	429.14	430.76
426.24	450.52	427.15	437.29	428.11	425.78	429.16	442.40
426.25	418.84	427.16	447.78	428.13	465.87	429.17	452.79
426.27	437.89	427.18	442.31	428.17	445.58	429.18	437.51
426.28	436.03	427.22	417.44	428.18	451.17	429.20	429.22
426.29	424.63	427.23	440.56	428.19	428.20	429.22	440.20
426.30	440.77	427.25	447.63	428.20	429.57	429.24	437.75
426.31	449.41	427.26	435.56	428.21	433.61	429.25	437.71
426.35	434.89	427.27	434.53	428.23	463.02	429.27	431.77
426.37	419.99	427.28	442.60	428.24	425.78	429.28	434.96
426.38	454.88	427.29	440.98	428.25	467.64	429.30	443.31
426.39	426.89	427.30	434.70	428.28	414.21	429.31	426.51
426.40	434.77	427.32	432.24	428.29	441.34	429.32	461.02
426.41	437.79	427.34	452.30	428.30	444.43	429.33	430.02
426.42	423.29	427.35	425.29	428.31	426.03	429.34	434.01
426.43	419.48	427.36	433.72	428.32	442.40	429.35	453.91
426.44	418.73	427.37	443.01	428.33	445.92	429.38	443.25
426.45	449.22	427.41	447.75	428.39	432.89	429.39	424.82
426.46	439.46	427.43	425.63	428.41	437.90	429.40	442.95
426.47	438.28	427.44	450.93	428.45	447.40	429.41	433.75
426.48	433.05	427.45	437.22	428.46	435.92	429.44	443.47
426.49	430.33	427.46	425.21	428.47	439.31	429.47	433.74
426.50	425.86	427.47	463.06	428.48	444.86	429.50	428.26
426.51	455.39	427.48	438.15	428.56	448.57	429.51	434.47
426.53	433.87	427.51	453.38	428.57	425.08	429.53	452.72
426.55	439.42	427.53	439.72	428.60	439.58	429.54	429.15
426.56	446.89	427.54	438.07	428.62	438.41	429.55	441.24
426.58	418.39	427.55	433.95	428.63	418.96	429.56	444.87
426.59	441.61	427.57	433.19	428.64	451.40	429.57	435.29
426.62	442.29	427.62	433.91	428.68	439.10	429.58	450.11
426.64	425.47	427.63	442.82	428.69	433.46	429.60	445.67
426.65	441.33	427.64	434.63	428.70	456.48	429.61	445.15
426.67	430.09	427.66	439.69	428.71	426.60	429.64	423.65
426.74	458.65	427.67	469.18	428.72	445.41	429.65	452.14
426.77	441.50	427.68	434.40	428.74	442.61	429.68	450.49
426.79	435.65	427.69	442.04	428.75	442.03	429.69	450.46
426.80	432.55	427.70	440.75	428.76	440.89	429.70	442.88
426.81	448.46	427.71	433.72	428.79	447.38	429.71	447.41
426.82	433.16	427.72	411.95	428.83	438.61	429.74	444.14
426.83	411.57	427.73	420.13	428.84	446.92	429.75	442.64
426.84	438.25	427.74	424.67	428.86	446.84	429.76	440.33

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
429.77	426.88	430.68	434.03	431.54	438.08	432.54	467.14
429.79	443.39	430.69	433.00	431.56	434.56	432.55	458.10
429.81	451.15	430.70	431.90	431.59	422.87	432.56	437.33
429.83	431.07	430.72	448.37	431.60	449.55	432.57	452.59
429.84	435.82	430.74	429.26	431.61	443.64	432.59	441.44
429.85	451.34	430.76	439.78	431.62	446.03	432.60	421.84
429.87	436.41	430.77	445.59	431.65	442.53	432.64	437.52
429.89	442.02	430.79	456.32	431.66	439.41	432.65	441.04
429.90	436.17	430.80	430.83	431.67	423.94	432.67	454.60
429.91	438.11	430.81	429.58	431.69	461.53	432.68	442.59
429.92	439.88	430.83	428.89	431.71	455.34	432.69	441.78
429.94	446.04	430.84	446.37	431.72	440.70	432.70	451.79
429.95	429.56	430.85	435.84	431.73	450.91	432.73	440.74
429.97	424.33	430.87	431.46	431.74	449.92	432.74	426.91
429.98	434.10	430.88	442.61	431.76	441.92	432.75	437.92
430.00	448.33	430.90	465.54	431.77	439.58	432.76	432.61
430.04	446.96	430.91	438.09	431.78	446.64	432.77	449.13
430.05	443.07	430.92	413.99	431.79	437.01	432.78	444.07
430.07	434.22	430.93	430.87	431.81	437.52	432.79	437.24
430.08	439.50	430.94	436.29	431.82	424.33	432.80	450.69
430.09	445.70	430.95	443.67	431.83	440.94	432.81	445.20
430.12	445.52	430.96	443.91	431.87	420.34	432.82	453.64
430.13	442.08	430.97	440.82	431.88	437.90	432.83	432.32
430.14	460.43	431.00	449.20	431.89	444.17	432.85	462.04
430.15	447.41	431.01	431.61	431.91	432.06	432.87	452.46
430.16	433.13	431.02	446.52	431.92	432.86	432.88	442.52
430.17	467.95	431.03	440.56	431.96	424.75	432.91	440.57
430.19	445.67	431.05	450.56	431.97	454.24	432.92	447.09
430.20	437.56	431.06	454.35	432.03	438.25	432.93	433.23
430.22	423.98	431.07	446.98	432.07	438.54	432.94	457.22
430.23	429.31	431.08	419.51	432.09	432.21	432.95	441.84
430.24	433.22	431.09	442.64	432.10	422.45	433.01	458.19
430.26	442.97	431.10	446.10	432.12	433.75	433.02	459.09
430.29	442.82	431.11	440.95	432.13	436.09	433.03	431.89
430.33	432.67	431.15	450.82	432.14	436.77	433.04	428.33
430.35	447.96	431.16	435.41	432.16	435.37	433.05	459.49
430.36	451.80	431.17	462.74	432.20	451.39	433.07	453.73
430.37	443.28	431.19	439.25	432.22	429.78	433.11	443.66
430.39	437.99	431.20	432.79	432.23	430.27	433.13	435.66
430.41	432.96	431.21	437.76	432.24	444.97	433.15	435.97
430.44	446.13	431.22	447.55	432.25	453.83	433.19	448.38
430.45	447.30	431.25	440.76	432.26	433.06	433.20	442.62
430.46	451.74	431.27	447.71	432.27	437.11	433.22	449.60
430.47	433.96	431.28	438.61	432.29	440.64	433.24	425.31
430.48	431.93	431.29	433.84	432.30	449.11	433.25	422.75
430.50	446.06	431.30	447.09	432.32	447.92	433.26	429.54
430.51	451.68	431.35	441.51	432.33	422.22	433.29	431.31
430.52	452.45	431.36	431.18	432.35	455.15	433.32	431.96
430.53	430.24	431.38	440.34	432.36	449.33	433.34	455.59
430.54	445.47	431.39	439.39	432.37	442.59	433.36	439.22
430.55	446.52	431.40	432.26	432.40	438.76	433.38	440.60
430.57	451.11	431.41	426.48	432.41	429.11	433.39	443.99
430.59	429.51	431.42	431.47	432.42	449.66	433.40	430.14
430.60	448.62	431.43	440.98	432.44	447.21	433.41	431.54
430.61	450.33	431.44	425.42	432.45	440.02	433.43	438.40
430.62	414.78	431.45	447.74	432.46	452.05	433.44	436.02
430.63	438.07	431.47	439.55	432.47	435.43	433.45	434.47
430.64	440.59	431.50	455.71	432.51	456.81	433.46	437.59
430.65	424.98	431.51	445.77	432.52	457.85	433.47	440.78
430.67	438.33	431.53	441.73	432.53	451.69	433.48	424.93

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
433.49	458.38	434.43	423.22	435.46	458.35	436.32	442.61
433.50	458.90	434.44	441.79	435.47	445.35	436.33	451.77
433.51	448.16	434.45	440.79	435.48	435.01	436.34	447.95
433.55	459.09	434.48	447.79	435.49	428.57	436.35	440.68
433.56	433.59	434.49	440.89	435.50	434.94	436.36	422.36
433.57	430.56	434.50	438.51	435.51	442.11	436.37	455.71
433.58	447.06	434.51	444.09	435.53	440.58	436.38	447.67
433.59	445.15	434.52	445.44	435.54	440.77	436.40	447.86
433.60	447.99	434.53	439.06	435.56	449.72	436.41	449.17
433.61	440.51	434.55	446.44	435.57	439.74	436.44	442.15
433.62	443.85	434.56	442.51	435.58	458.18	436.45	448.41
433.63	442.65	434.57	437.20	435.59	442.69	436.46	447.48
433.64	443.93	434.60	448.03	435.62	445.50	436.52	452.76
433.67	441.12	434.63	439.46	435.63	436.45	436.53	454.61
433.68	463.20	434.64	443.87	435.64	451.31	436.54	445.33
433.71	435.46	434.66	445.74	435.65	439.97	436.56	455.00
433.72	446.62	434.72	444.65	435.67	436.00	436.58	448.73
433.74	434.67	434.73	444.54	435.68	428.27	436.59	443.22
433.75	428.27	434.74	444.70	435.69	443.00	436.60	436.43
433.76	434.57	434.75	444.84	435.72	449.12	436.61	452.55
433.77	424.80	434.78	448.64	435.73	451.39	436.62	457.31
433.79	467.37	434.79	456.10	435.74	451.98	436.64	444.64
433.81	449.25	434.81	469.05	435.76	456.18	436.65	437.31
433.83	444.85	434.82	449.51	435.77	441.34	436.66	445.34
433.84	434.78	434.84	452.86	435.79	425.43	436.67	440.00
433.87	444.70	434.85	472.43	435.80	448.26	436.69	456.44
433.88	426.75	434.88	445.07	435.81	441.69	436.71	447.26
433.90	436.38	434.89	443.28	435.83	445.46	436.74	452.91
433.91	448.15	434.90	450.98	435.85	444.77	436.78	454.92
433.94	444.44	434.91	439.44	435.87	445.88	436.79	448.99
433.95	443.79	434.94	434.75	435.88	437.41	436.81	443.69
433.96	452.39	434.95	446.84	435.90	442.80	436.82	449.23
433.98	450.70	434.98	471.84	435.91	473.29	436.84	437.68
433.99	449.05	435.00	440.34	435.92	454.81	436.86	445.48
434.00	432.13	435.01	456.54	435.93	437.61	436.88	446.83
434.02	444.33	435.02	456.97	435.95	437.26	436.89	423.97
434.03	443.18	435.03	437.70	435.96	446.26	436.90	445.39
434.04	443.20	435.04	455.60	435.97	430.60	436.91	435.02
434.05	461.68	435.06	443.16	435.98	439.35	436.93	444.69
434.08	457.88	435.07	445.24	436.00	438.79	436.94	446.11
434.10	438.80	435.13	427.72	436.01	446.16	436.95	465.35
434.13	433.95	435.16	440.38	436.03	433.50	436.96	447.77
434.16	449.76	435.17	432.60	436.05	459.64	436.97	435.66
434.17	436.25	435.18	448.07	436.08	452.33	436.98	447.37
434.18	431.25	435.19	453.70	436.09	444.61	436.99	446.80
434.19	450.01	435.20	429.70	436.10	454.45	437.01	440.05
434.20	444.13	435.21	425.82	436.13	461.85	437.03	447.05
434.22	455.83	435.22	446.53	436.16	478.18	437.04	446.56
434.24	440.69	435.24	446.12	436.17	436.20	437.05	467.93
434.25	452.50	435.26	428.53	436.18	449.33	437.06	447.13
434.26	444.99	435.28	450.45	436.19	438.63	437.07	454.31
434.29	448.66	435.31	452.78	436.21	451.88	437.08	428.24
434.30	461.99	435.32	436.82	436.22	451.56	437.09	453.07
434.31	453.38	435.34	443.01	436.24	461.75	437.10	443.87
434.34	424.84	435.35	451.20	436.26	439.79	437.12	455.88
434.35	463.47	435.37	442.20	436.27	460.22	437.14	436.76
434.38	443.18	435.39	449.05	436.28	433.02	437.15	429.48
434.39	446.60	435.43	430.66	436.29	439.31	437.16	430.45
434.40	451.60	435.44	445.53	436.30	445.12	437.18	444.77
434.42	449.03	435.45	439.43	436.31	440.93	437.19	460.60

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
437.21	435.50	438.07	451.89	439.03	440.35	440.02	450.47
437.22	429.22	438.08	456.23	439.06	435.91	440.04	443.38
437.23	445.86	438.09	444.27	439.07	448.96	440.05	449.05
437.25	423.33	438.10	447.92	439.08	440.27	440.06	445.73
437.26	470.07	438.11	451.83	439.09	444.35	440.09	445.13
437.27	445.57	438.12	441.03	439.10	448.46	440.10	447.20
437.29	436.95	438.13	454.53	439.11	445.26	440.11	453.80
437.30	436.68	438.14	449.91	439.12	448.56	440.12	470.32
437.31	430.78	438.18	426.85	439.14	465.31	440.13	428.47
437.32	484.03	438.20	445.65	439.17	441.72	440.16	442.93
437.33	440.08	438.21	429.35	439.21	434.76	440.17	459.21
437.36	450.23	438.22	479.58	439.24	449.51	440.20	445.75
437.39	464.64	438.23	435.02	439.26	429.65	440.22	433.67
437.40	449.41	438.25	432.58	439.28	456.89	440.23	444.94
437.41	433.85	438.26	434.79	439.30	475.77	440.26	464.87
437.43	450.73	438.27	452.66	439.31	473.25	440.27	437.89
437.44	447.95	438.28	434.94	439.32	446.14	440.31	437.48
437.45	453.20	438.29	444.74	439.34	453.14	440.32	449.88
437.47	433.27	438.30	452.59	439.35	449.28	440.33	437.18
437.48	465.31	438.32	455.45	439.37	433.77	440.34	440.56
437.49	439.06	438.33	445.21	439.38	462.72	440.35	447.16
437.51	435.24	438.36	447.52	439.39	436.43	440.36	452.87
437.52	456.86	438.38	445.69	439.41	451.15	440.37	444.43
437.54	431.67	438.39	454.40	439.42	462.27	440.38	441.55
437.55	447.57	438.41	451.07	439.43	447.04	440.39	454.40
437.57	450.91	438.42	452.35	439.44	432.97	440.40	460.01
437.58	462.57	438.43	448.28	439.47	449.83	440.43	437.24
437.59	434.53	438.45	448.41	439.48	439.28	440.45	440.80
437.63	453.91	438.49	442.41	439.49	442.52	440.53	448.03
437.64	437.18	438.50	454.06	439.50	449.07	440.54	461.46
437.65	440.27	438.52	443.12	439.51	436.86	440.56	447.16
437.66	443.38	438.54	434.96	439.52	441.69	440.57	446.32
437.67	442.46	438.55	438.82	439.54	439.88	440.58	444.10
437.68	447.69	438.56	469.19	439.55	458.06	440.60	448.25
437.69	448.62	438.57	434.74	439.56	458.43	440.62	450.04
437.70	447.36	438.60	473.74	439.58	440.42	440.64	448.61
437.71	460.87	438.62	445.71	439.61	459.76	440.66	446.01
437.72	460.34	438.63	452.24	439.64	443.78	440.68	442.02
437.74	446.26	438.66	453.15	439.65	440.61	440.70	443.62
437.76	458.93	438.67	444.07	439.69	442.05	440.72	468.20
437.77	435.29	438.68	447.91	439.70	454.23	440.75	447.31
437.79	455.31	438.71	451.16	439.71	448.51	440.76	437.63
437.80	455.44	438.72	441.33	439.72	442.52	440.77	461.17
437.81	447.43	438.77	457.65	439.74	450.60	440.78	434.09
437.82	438.21	438.80	462.43	439.75	448.03	440.79	459.53
437.85	448.94	438.81	450.27	439.76	462.55	440.80	449.75
437.87	439.70	438.83	451.34	439.77	451.79	440.82	482.38
437.88	448.34	438.85	433.51	439.78	478.04	440.83	457.68
437.90	449.36	438.86	441.21	439.79	455.90	440.84	438.48
437.91	448.07	438.87	454.71	439.81	423.87	440.87	455.66
437.92	453.76	438.89	446.96	439.84	444.90	440.89	465.89
437.93	445.51	438.90	446.78	439.87	450.70	440.90	441.84
437.95	451.36	438.92	441.37	439.88	436.20	440.92	434.88
437.97	435.08	438.93	429.46	439.90	445.81	440.93	463.14
437.98	461.44	438.94	437.28	439.92	449.69	440.95	441.91
437.99	442.72	438.96	431.88	439.94	437.72	440.96	462.84
438.00	469.12	438.98	456.69	439.97	459.55	440.97	457.14
438.01	471.81	438.99	451.92	439.98	461.10	440.98	465.05
438.03	464.25	439.00	441.79	439.99	440.75	441.00	453.55
438.04	445.81	439.01	456.17	440.00	444.41	441.03	448.98

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
441.08	467.90	442.01	462.36	442.96	446.69	443.71	442.29
441.09	446.21	442.02	466.72	442.97	435.44	443.73	444.98
441.10	436.51	442.03	449.82	442.98	452.25	443.74	445.11
441.11	446.04	442.04	451.92	442.99	448.36	443.75	453.34
441.12	442.85	442.07	465.46	443.00	436.86	443.76	442.76
441.13	452.58	442.09	448.91	443.02	456.06	443.79	454.74
441.14	448.62	442.10	451.26	443.04	447.11	443.80	439.95
441.15	448.98	442.12	457.65	443.05	455.87	443.81	458.35
441.17	464.41	442.13	454.58	443.06	454.17	443.82	450.03
441.18	446.24	442.14	454.73	443.07	460.34	443.83	451.53
441.19	436.12	442.15	448.54	443.08	450.99	443.86	457.38
441.20	448.41	442.16	436.13	443.09	444.83	443.87	435.81
441.25	442.06	442.17	460.87	443.10	468.43	443.88	442.87
441.26	480.37	442.18	445.86	443.11	467.42	443.89	452.33
441.29	462.98	442.19	454.29	443.13	451.28	443.90	450.51
441.30	450.28	442.20	459.83	443.14	454.15	443.91	455.78
441.31	454.96	442.21	457.08	443.17	441.38	443.92	436.05
441.33	450.72	442.22	439.69	443.18	468.87	443.94	457.97
441.35	461.58	442.24	449.44	443.19	468.37	443.95	444.28
441.37	440.56	442.25	466.84	443.20	441.53	443.96	441.53
441.39	437.63	442.27	456.42	443.21	449.44	443.97	444.86
441.40	445.33	442.30	486.26	443.23	458.41	443.98	460.21
441.43	447.37	442.31	448.19	443.24	447.90	443.99	456.06
441.45	447.60	442.32	458.69	443.25	451.04	444.02	454.15
441.46	458.67	442.33	461.82	443.26	489.30	444.03	487.56
441.48	447.29	442.35	451.81	443.27	463.63	444.04	462.39
441.50	448.59	442.36	429.51	443.28	455.16	444.05	465.99
441.51	437.70	442.41	457.94	443.30	443.68	444.06	477.98
441.52	479.04	442.43	451.12	443.31	451.18	444.07	462.11
441.53	448.19	442.46	443.10	443.32	459.85	444.08	445.02
441.54	443.57	442.47	437.49	443.33	447.95	444.09	457.94
441.55	458.37	442.48	439.37	443.34	439.28	444.10	437.77
441.56	453.62	442.49	452.57	443.36	447.87	444.13	445.32
441.57	457.66	442.50	456.48	443.38	455.85	444.14	436.41
441.58	438.99	442.52	447.62	443.39	454.08	444.15	473.74
441.66	458.85	442.53	459.09	443.40	467.82	444.16	457.96
441.67	455.93	442.57	456.51	443.41	448.56	444.17	449.06
441.68	456.35	442.59	449.92	443.42	455.12	444.18	446.98
441.69	457.31	442.60	453.76	443.43	459.08	444.19	455.84
441.70	455.59	442.61	442.76	443.44	452.14	444.20	469.48
441.71	441.32	442.64	449.78	443.45	453.36	444.21	459.92
441.72	453.27	442.65	448.04	443.47	446.72	444.22	444.42
441.74	443.53	442.72	450.48	443.48	454.83	444.23	453.07
441.78	457.08	442.73	460.72	443.49	463.55	444.24	443.77
441.79	453.22	442.74	436.32	443.51	449.47	444.25	459.57
441.82	466.89	442.75	448.58	443.53	449.68	444.26	437.57
441.83	452.00	442.77	448.75	443.56	463.79	444.27	459.47
441.84	473.66	442.79	461.45	443.57	465.44	444.29	455.47
441.85	459.86	442.80	441.05	443.58	450.19	444.30	443.18
441.86	452.19	442.81	448.98	443.59	439.31	444.32	470.14
441.87	433.47	442.83	456.07	443.60	458.24	444.33	456.86
441.88	432.82	442.84	452.49	443.61	442.13	444.34	458.90
441.89	460.95	442.85	435.67	443.62	448.71	444.36	465.54
441.90	461.20	442.86	441.22	443.63	442.91	444.37	466.85
441.91	454.59	442.87	436.60	443.64	454.34	444.38	458.98
441.92	452.61	442.89	473.49	443.65	452.48	444.39	453.57
441.94	453.48	442.90	450.16	443.66	441.81	444.42	452.01
441.96	455.42	442.92	465.56	443.67	452.30	444.44	448.96
441.97	455.90	442.93	451.78	443.68	446.09	444.46	446.35
441.98	461.28	442.95	458.48	443.70	447.65	444.48	465.22



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
444.49	457.62	445.43	454.25	446.30	444.65	447.22	452.15
444.50	480.41	445.44	459.90	446.33	461.87	447.23	467.74
444.51	452.18	445.45	450.96	446.37	479.14	447.24	459.79
444.54	474.73	445.46	444.78	446.38	469.48	447.25	449.35
444.55	458.44	445.47	459.18	446.39	455.35	447.26	458.73
444.57	454.99	445.48	434.34	446.41	471.98	447.27	456.26
444.61	458.99	445.49	439.55	446.42	449.26	447.28	474.21
444.62	456.07	445.52	447.18	446.43	446.24	447.29	452.68
444.63	428.68	445.54	467.63	446.44	444.20	447.30	461.86
444.64	446.11	445.55	471.28	446.45	445.96	447.31	455.95
444.66	445.50	445.57	447.91	446.46	450.28	447.32	465.97
444.67	479.71	445.58	464.63	446.47	454.22	447.33	468.07
444.68	446.23	445.61	459.29	446.48	457.15	447.34	475.83
444.69	468.82	445.62	448.45	446.49	443.72	447.36	441.94
444.70	432.24	445.63	439.86	446.52	448.30	447.37	470.79
444.71	442.50	445.64	447.26	446.55	457.79	447.39	444.93
444.73	459.34	445.65	438.66	446.56	468.33	447.40	453.20
444.74	444.94	445.67	456.91	446.57	457.27	447.41	433.26
444.76	449.38	445.68	458.90	446.61	456.61	447.42	451.55
444.78	459.03	445.69	461.43	446.62	462.57	447.43	464.31
444.81	455.80	445.70	453.32	446.63	456.01	447.44	455.68
444.82	455.54	445.71	452.97	446.64	447.12	447.47	468.57
444.83	444.33	445.72	450.92	446.65	455.87	447.48	479.67
444.85	455.98	445.74	487.75	446.67	448.82	447.50	470.46
444.87	455.78	445.75	447.28	446.68	447.90	447.52	458.63
444.88	452.80	445.76	441.56	446.69	456.22	447.53	449.27
444.90	444.01	445.77	485.37	446.71	451.27	447.54	463.67
444.92	454.77	445.79	461.62	446.72	458.86	447.55	451.05
444.97	464.73	445.80	483.80	446.73	463.80	447.56	453.06
444.98	449.73	445.81	462.83	446.74	472.64	447.57	451.92
444.99	455.83	445.82	451.32	446.76	452.31	447.58	440.58
445.00	483.11	445.83	466.83	446.77	447.53	447.59	464.41
445.01	463.43	445.85	454.99	446.78	454.06	447.60	448.01
445.02	463.57	445.87	459.18	446.80	456.59	447.61	473.40
445.03	442.72	445.88	471.65	446.82	454.05	447.63	465.87
445.05	455.45	445.90	449.20	446.83	452.19	447.64	443.62
445.06	457.34	445.91	467.73	446.85	474.31	447.65	448.63
445.07	480.43	445.93	458.11	446.86	467.14	447.66	466.49
445.10	447.55	445.97	456.75	446.88	455.92	447.67	461.60
445.12	445.91	445.99	445.94	446.89	456.29	447.69	463.85
445.13	458.44	446.00	459.08	446.91	467.56	447.70	456.16
445.17	448.12	446.01	431.72	446.92	457.98	447.71	451.55
445.18	446.32	446.02	430.62	446.93	447.69	447.72	445.23
445.19	458.91	446.07	442.27	446.94	463.28	447.73	450.61
445.21	436.94	446.09	450.77	446.96	455.98	447.74	445.24
445.24	468.27	446.10	446.47	446.99	459.82	447.75	461.96
445.25	464.28	446.11	437.35	447.00	449.19	447.76	479.01
445.26	473.80	446.12	465.35	447.01	446.97	447.77	455.43
445.28	445.58	446.13	464.02	447.03	467.17	447.78	473.52
445.29	450.19	446.16	460.77	447.08	460.12	447.79	446.35
445.30	458.72	446.17	440.75	447.09	439.40	447.80	464.82
445.33	470.76	446.18	448.13	447.10	460.07	447.82	470.28
445.34	446.82	446.19	443.79	447.12	447.09	447.83	438.08
445.35	457.72	446.21	454.61	447.13	463.94	447.84	459.71
445.36	458.33	446.22	444.40	447.15	449.87	447.87	451.50
445.37	446.88	446.24	461.16	447.16	454.17	447.88	455.47
445.38	460.82	446.26	460.52	447.17	463.97	447.89	451.36
445.39	451.49	446.27	442.32	447.18	480.15	447.90	443.85
445.40	453.01	446.28	464.14	447.20	469.74	447.91	448.47
445.41	468.53	446.29	443.84	447.21	472.69	447.92	439.42

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
447.93	455.78	448.75	461.94	449.68	457.92	450.57	453.38
447.94	490.12	448.76	464.93	449.69	455.26	450.58	453.04
447.95	463.91	448.77	449.08	449.70	460.17	450.61	451.44
447.96	463.42	448.80	462.02	449.71	449.51	450.62	467.44
447.97	452.14	448.81	437.48	449.72	449.93	450.63	451.39
447.98	461.23	448.82	448.50	449.73	447.70	450.64	457.59
448.00	460.08	448.83	459.53	449.74	457.76	450.66	446.50
448.02	452.39	448.85	453.77	449.75	449.94	450.67	446.81
448.03	443.53	448.86	475.14	449.77	458.90	450.68	464.65
448.04	455.71	448.88	481.50	449.78	460.33	450.69	470.97
448.06	452.09	448.90	465.05	449.79	465.08	450.71	461.97
448.07	443.70	448.91	457.43	449.80	439.78	450.73	467.14
448.08	462.63	448.92	467.40	449.81	471.29	450.76	450.83
448.10	460.26	448.93	449.86	449.82	456.85	450.77	457.82
448.12	465.97	448.94	458.54	449.83	458.75	450.78	465.46
448.13	460.29	448.95	461.98	449.84	454.19	450.79	457.41
448.14	455.87	448.96	459.00	449.87	466.22	450.80	453.67
448.15	474.52	448.97	456.52	449.90	484.90	450.82	447.15
448.16	464.27	448.98	452.72	449.92	455.67	450.83	458.48
448.17	476.28	448.99	454.24	449.93	461.49	450.84	459.67
448.19	463.84	449.00	445.53	449.94	478.65	450.85	450.43
448.20	432.62	449.01	472.67	449.95	452.06	450.86	460.10
448.21	462.91	449.02	443.57	450.01	448.93	450.87	446.79
448.22	456.44	449.03	458.61	450.02	463.60	450.88	471.93
448.24	479.69	449.04	468.50	450.03	458.96	450.89	460.38
448.26	456.98	449.05	459.69	450.04	455.33	450.90	458.99
448.28	460.17	449.07	457.17	450.07	467.50	450.92	459.45
448.30	466.83	449.09	474.58	450.11	449.43	450.93	469.23
448.32	452.21	449.11	448.31	450.12	454.67	450.94	444.23
448.33	484.04	449.13	452.73	450.13	461.79	450.96	467.51
448.34	447.26	449.14	465.94	450.15	465.86	450.99	458.07
448.35	434.02	449.15	452.82	450.17	463.39	451.00	449.96
448.37	460.56	449.16	470.83	450.18	450.45	451.01	449.66
448.38	483.05	449.17	470.38	450.19	456.86	451.02	459.92
448.40	462.83	449.20	460.72	450.20	467.72	451.03	484.32
448.41	449.56	449.23	454.57	450.23	470.73	451.05	475.25
448.42	457.01	449.24	456.35	450.25	448.46	451.06	460.12
448.43	465.59	449.25	453.41	450.26	445.77	451.08	440.37
448.44	461.63	449.27	454.38	450.27	445.77	451.09	457.09
448.45	449.77	449.29	458.60	450.28	453.21	451.10	463.66
448.46	461.87	449.33	455.86	450.30	455.94	451.12	459.76
448.47	451.47	449.34	462.03	450.32	448.19	451.13	455.22
448.49	457.55	449.36	462.68	450.33	469.99	451.14	442.96
448.50	448.93	449.37	476.90	450.34	467.63	451.16	453.62
448.52	465.93	449.38	466.92	450.38	464.02	451.18	458.87
448.53	450.29	449.39	458.68	450.39	471.06	451.20	448.60
448.58	479.69	449.40	466.10	450.40	465.67	451.21	441.18
448.59	468.00	449.43	456.58	450.42	450.84	451.24	462.03
448.60	453.68	449.47	484.58	450.43	462.12	451.25	455.63
448.61	474.33	449.50	466.55	450.44	466.07	451.27	476.26
448.62	446.34	449.53	446.63	450.45	448.53	451.29	454.29
448.63	453.85	449.54	458.57	450.46	455.95	451.30	456.59
448.65	441.69	449.55	458.28	450.47	461.47	451.31	459.91
448.66	451.79	449.56	450.68	450.48	461.46	451.32	462.66
448.67	469.79	449.60	451.52	450.49	444.08	451.33	459.62
448.68	449.33	449.63	452.68	450.50	447.57	451.34	443.40
448.70	455.88	449.64	462.39	450.51	454.19	451.36	455.98
448.71	463.55	449.65	467.36	450.52	452.78	451.38	472.33
448.72	451.03	449.66	452.97	450.53	462.03	451.39	471.98
448.73	451.68	449.67	458.86	450.54	452.68	451.40	449.58

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
451.42	455.33	452.42	446.39	453.31	456.00	454.26	455.59
451.43	451.64	452.44	463.98	453.33	470.52	454.27	462.31
451.44	449.12	452.45	450.21	453.34	468.26	454.28	479.66
451.47	459.85	452.46	459.88	453.35	454.10	454.29	478.35
451.48	465.83	452.47	461.89	453.37	451.10	454.30	441.84
451.50	467.94	452.48	472.72	453.39	456.42	454.31	456.10
451.51	465.52	452.49	458.86	453.40	461.02	454.32	452.72
451.53	455.47	452.52	476.72	453.41	473.59	454.34	457.98
451.55	434.66	452.54	463.03	453.42	471.58	454.35	458.48
451.59	456.14	452.55	473.69	453.43	458.13	454.36	461.13
451.60	440.83	452.59	466.67	453.46	452.99	454.37	473.01
451.61	459.71	452.60	481.82	453.47	452.89	454.38	480.62
451.62	457.01	452.62	461.11	453.50	469.23	454.39	471.69
451.63	467.12	452.63	467.07	453.54	441.53	454.41	463.29
451.64	444.76	452.64	471.84	453.55	495.53	454.43	477.90
451.65	462.72	452.67	459.70	453.57	447.53	454.45	485.47
451.66	472.92	452.68	435.91	453.58	470.78	454.47	473.44
451.69	459.37	452.69	470.30	453.60	450.95	454.49	475.32
451.74	469.39	452.70	448.75	453.62	440.07	454.51	447.81
451.75	465.37	452.71	457.93	453.64	465.03	454.52	471.93
451.76	460.35	452.72	471.79	453.66	471.43	454.57	467.57
451.78	463.91	452.73	454.73	453.67	465.98	454.59	468.36
451.80	450.00	452.74	452.78	453.68	477.78	454.60	460.06
451.88	466.18	452.75	454.86	453.70	462.87	454.61	473.38
451.90	454.16	452.76	457.94	453.72	460.07	454.62	454.59
451.91	463.83	452.77	474.42	453.73	458.72	454.64	462.72
451.92	452.50	452.78	461.97	453.74	475.62	454.66	460.32
451.93	463.27	452.80	461.63	453.75	478.55	454.67	454.68
451.94	453.03	452.81	463.29	453.76	464.42	454.68	450.26
451.95	449.94	452.83	466.80	453.77	449.48	454.70	456.08
451.96	464.87	452.84	455.81	453.81	450.22	454.71	466.04
451.97	451.79	452.87	454.11	453.82	477.43	454.73	461.30
451.98	462.66	452.88	454.10	453.83	442.72	454.74	444.69
452.00	465.75	452.89	463.48	453.86	447.75	454.75	455.30
452.01	458.10	452.91	455.66	453.87	463.13	454.77	468.33
452.04	465.14	452.92	485.31	453.88	457.60	454.79	457.38
452.05	459.16	452.93	462.40	453.91	451.29	454.81	470.17
452.06	463.49	452.94	454.87	453.92	465.89	454.82	469.34
452.07	445.94	452.96	478.76	453.94	465.55	454.83	464.01
452.08	473.06	452.98	448.00	453.95	452.05	454.85	465.54
452.09	494.35	453.00	482.11	453.96	450.56	454.88	460.81
452.10	481.35	453.02	458.24	454.00	453.36	454.89	468.40
452.12	457.87	453.05	486.45	454.02	462.57	454.91	459.68
452.13	449.14	453.06	462.77	454.04	465.89	454.93	477.74
452.15	466.02	453.07	457.95	454.05	443.39	454.95	460.78
452.16	453.26	453.09	479.14	454.06	451.30	454.96	462.82
452.19	472.74	453.10	445.55	454.08	470.11	454.97	476.00
452.20	465.14	453.11	440.70	454.09	462.42	454.98	471.06
452.22	466.76	453.12	463.31	454.10	466.27	454.99	444.61
452.23	466.12	453.14	448.31	454.11	451.16	455.00	459.96
452.24	459.93	453.15	460.15	454.12	483.81	455.02	476.17
452.28	459.78	453.16	455.85	454.13	450.82	455.04	458.13
452.31	464.06	453.17	464.32	454.15	467.11	455.05	465.01
452.32	452.93	453.18	454.03	454.17	462.65	455.07	454.25
452.33	431.86	453.20	449.85	454.18	485.29	455.12	475.13
452.35	464.84	453.22	455.05	454.19	461.75	455.13	465.69
452.36	452.65	453.24	461.00	454.20	469.16	455.15	460.49
452.37	448.68	453.26	475.17	454.22	464.15	455.17	456.44
452.38	459.30	453.27	449.73	454.23	455.33	455.19	465.94
452.41	450.78	453.29	465.94	454.24	461.34	455.20	480.65

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
455.21	460.73	456.08	458.99	457.02	479.00	457.88	463.97
455.22	472.38	456.09	471.31	457.03	464.86	457.89	460.30
455.24	457.35	456.10	458.12	457.05	451.95	457.92	464.91
455.25	458.92	456.11	460.48	457.06	473.62	457.93	466.76
455.26	472.47	456.12	457.79	457.07	490.21	457.94	459.14
455.28	463.37	456.13	476.82	457.08	466.37	457.95	467.66
455.29	468.63	456.14	471.50	457.09	453.01	457.96	459.54
455.31	481.66	456.16	458.89	457.11	460.61	457.99	469.05
455.32	467.66	456.17	463.34	457.12	460.37	458.01	470.67
455.33	469.08	456.18	451.77	457.15	467.26	458.02	465.27
455.35	471.90	456.19	450.59	457.16	450.39	458.03	451.19
455.37	456.41	456.20	465.64	457.17	463.31	458.04	470.75
455.38	457.27	456.21	466.56	457.20	476.26	458.05	467.71
455.39	492.86	456.25	468.76	457.21	452.04	458.06	463.54
455.43	485.34	456.28	446.19	457.22	492.14	458.07	473.72
455.44	460.70	456.30	460.47	457.24	468.28	458.09	460.67
455.45	467.07	456.32	461.21	457.26	463.87	458.10	463.78
455.46	470.33	456.34	453.97	457.28	462.03	458.11	466.73
455.48	468.87	456.35	467.08	457.29	483.42	458.12	461.67
455.51	468.62	456.36	467.17	457.30	475.74	458.13	474.59
455.52	457.59	456.39	443.89	457.31	459.95	458.15	452.79
455.53	469.38	456.40	455.34	457.33	462.33	458.16	470.91
455.54	468.99	456.41	471.17	457.34	464.72	458.18	470.04
455.55	467.86	456.42	459.41	457.35	469.67	458.19	461.14
455.56	452.58	456.44	451.23	457.36	459.17	458.20	466.42
455.57	458.90	456.46	478.51	457.38	464.98	458.21	451.73
455.58	458.43	456.49	476.79	457.40	462.48	458.23	456.45
455.59	467.97	456.50	466.04	457.41	466.10	458.24	447.94
455.61	481.01	456.51	468.09	457.43	455.33	458.25	477.49
455.62	459.62	456.53	462.05	457.44	472.42	458.26	459.33
455.63	467.69	456.54	478.07	457.46	468.81	458.27	512.07
455.65	456.38	456.55	464.00	457.47	436.58	458.28	464.77
455.66	448.58	456.56	446.42	457.50	456.47	458.30	457.51
455.69	478.21	456.57	464.68	457.51	461.54	458.32	452.11
455.70	474.90	456.58	465.14	457.53	458.80	458.33	475.20
455.71	473.94	456.60	465.57	457.55	462.74	458.34	473.31
455.74	464.22	456.61	474.83	457.56	462.91	458.35	482.23
455.76	460.67	456.64	480.74	457.57	464.63	458.36	463.27
455.77	459.85	456.65	459.33	457.58	458.39	458.37	458.20
455.78	469.20	456.66	452.32	457.59	457.86	458.38	451.91
455.80	480.39	456.67	465.64	457.61	455.94	458.39	468.92
455.83	460.05	456.69	452.12	457.62	469.22	458.41	485.30
455.84	450.11	456.70	478.64	457.63	460.58	458.44	474.11
455.85	464.92	456.75	466.38	457.65	453.81	458.45	462.88
455.86	472.41	456.76	469.54	457.66	455.62	458.47	471.00
455.87	469.59	456.77	462.27	457.68	477.70	458.48	474.96
455.88	466.23	456.78	460.98	457.69	461.16	458.49	481.79
455.89	464.53	456.79	473.90	457.71	464.65	458.50	451.40
455.90	461.35	456.82	471.75	457.72	467.33	458.51	452.33
455.91	462.49	456.84	474.19	457.73	478.12	458.52	459.13
455.92	483.58	456.87	456.62	457.75	460.14	458.53	459.94
455.94	463.34	456.88	458.40	457.76	459.76	458.56	469.85
455.95	462.23	456.89	452.65	457.80	467.95	458.57	472.75
455.96	466.12	456.90	463.02	457.81	465.85	458.58	463.79
455.99	456.60	456.91	456.95	457.82	451.06	458.61	460.49
456.00	448.72	456.92	475.06	457.83	464.01	458.62	466.49
456.01	466.36	456.93	480.57	457.84	472.48	458.63	468.70
456.05	471.48	456.94	442.74	457.85	478.94	458.64	475.19
456.06	473.88	456.95	468.71	457.86	456.29	458.65	466.81
456.07	481.02	456.98	462.06	457.87	456.39	458.66	474.29

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
458.67	446.48	459.61	466.20	460.50	475.44	461.39	480.64
458.68	460.59	459.62	473.95	460.52	467.13	461.40	445.17
458.72	475.28	459.63	469.74	460.53	467.15	461.42	468.50
458.73	476.86	459.64	462.90	460.54	479.33	461.44	464.85
458.75	477.02	459.65	478.80	460.56	467.64	461.45	458.46
458.77	464.23	459.67	471.34	460.57	458.00	461.47	465.12
458.78	465.59	459.68	458.81	460.58	476.95	461.48	478.56
458.79	466.15	459.70	485.53	460.59	464.10	461.50	472.96
458.80	492.86	459.71	477.18	460.61	454.90	461.51	495.27
458.82	488.29	459.74	449.66	460.63	489.44	461.52	485.70
458.83	459.77	459.77	479.25	460.64	470.58	461.53	488.16
458.84	457.93	459.78	464.83	460.66	462.27	461.54	497.82
458.85	448.79	459.80	478.62	460.67	470.28	461.58	460.65
458.86	465.67	459.81	468.00	460.69	460.94	461.60	477.71
458.87	499.92	459.82	461.24	460.71	510.37	461.62	464.20
458.88	469.14	459.84	471.13	460.72	471.46	461.63	484.30
458.91	460.51	459.85	456.15	460.74	459.17	461.64	469.56
458.92	472.14	459.87	476.73	460.75	473.42	461.65	467.59
458.93	469.29	459.88	469.71	460.78	461.75	461.66	486.05
458.94	469.38	459.89	479.26	460.79	487.39	461.67	456.01
458.95	488.70	459.90	490.03	460.81	482.21	461.68	475.44
458.96	456.21	459.91	466.87	460.82	463.69	461.70	476.00
458.97	455.54	459.92	466.79	460.83	490.12	461.72	459.41
458.98	456.17	459.93	472.79	460.85	469.75	461.73	467.90
458.99	475.77	459.94	475.89	460.86	482.26	461.74	482.73
459.02	463.18	459.95	487.46	460.88	471.03	461.75	445.86
459.04	444.02	459.98	473.52	460.91	476.40	461.76	471.39
459.05	473.15	459.99	462.95	460.92	480.65	461.78	466.82
459.06	468.27	460.00	454.65	460.94	468.11	461.79	463.46
459.07	466.13	460.02	451.33	460.95	467.08	461.80	466.95
459.08	463.23	460.04	453.13	460.96	472.61	461.81	486.31
459.09	469.65	460.05	490.83	460.98	455.04	461.82	460.04
459.10	460.77	460.06	471.59	460.99	468.18	461.83	469.31
459.13	471.72	460.10	460.43	461.01	467.21	461.84	482.08
459.14	458.59	460.11	470.66	461.02	487.70	461.85	462.39
459.16	465.33	460.12	457.11	461.03	456.32	461.86	473.67
459.19	476.39	460.13	474.83	461.04	475.22	461.88	465.22
459.20	456.16	460.14	464.88	461.05	472.77	461.91	463.58
459.21	475.67	460.15	459.72	461.06	458.22	461.92	465.74
459.23	457.31	460.16	479.66	461.07	473.56	461.93	470.39
459.24	467.37	460.18	472.46	461.09	445.38	461.94	476.96
459.25	477.08	460.19	471.59	461.10	452.18	461.97	482.54
459.26	480.86	460.20	458.40	461.11	452.35	462.00	473.31
459.29	459.55	460.21	471.81	461.13	487.23	462.01	476.58
459.30	463.83	460.22	472.74	461.14	449.11	462.04	474.31
459.32	471.12	460.23	475.45	461.15	461.89	462.05	469.09
459.33	455.19	460.24	474.43	461.17	483.17	462.06	455.86
459.36	485.27	460.25	485.03	461.18	478.29	462.07	485.09
459.42	465.59	460.27	480.52	461.19	474.24	462.08	465.98
459.44	473.74	460.28	467.54	461.20	462.23	462.09	473.69
459.45	461.09	460.29	472.16	461.22	460.62	462.10	470.63
459.46	449.62	460.33	456.73	461.23	461.52	462.11	471.20
459.47	452.17	460.34	461.98	461.25	472.34	462.12	467.08
459.50	459.99	460.35	490.43	461.26	469.85	462.13	500.92
459.53	474.97	460.37	457.70	461.29	460.50	462.14	466.22
459.54	457.36	460.38	456.73	461.31	467.60	462.15	463.47
459.55	469.76	460.39	470.30	461.34	463.84	462.16	470.59
459.57	464.27	460.41	474.65	461.35	462.85	462.18	491.79
459.58	468.95	460.43	473.42	461.36	483.20	462.20	502.44
459.59	492.63	460.48	480.10	461.37	456.90	462.21	477.74

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
462.22	469.82	463.13	468.60	463.94	460.87	464.84	461.33
462.24	471.51	463.14	478.55	463.95	462.07	464.85	466.85
462.25	475.69	463.15	483.69	463.96	473.38	464.87	478.71
462.26	478.36	463.16	442.03	464.04	471.09	464.88	459.47
462.27	447.88	463.17	474.10	464.05	463.68	464.89	475.10
462.31	465.71	463.18	466.98	464.06	477.48	464.90	473.40
462.32	475.18	463.19	473.45	464.07	466.18	464.92	486.46
462.35	461.72	463.20	472.91	464.11	502.17	464.93	477.93
462.37	469.94	463.21	456.48	464.12	469.00	464.94	473.48
462.39	469.60	463.22	474.82	464.14	460.57	464.95	465.49
462.42	470.74	463.24	476.18	464.16	471.39	464.97	475.59
462.44	477.94	463.25	474.37	464.17	470.20	464.99	462.44
462.45	478.37	463.27	481.44	464.19	458.97	465.00	472.21
462.46	472.57	463.28	473.74	464.20	456.82	465.01	477.12
462.48	477.53	463.30	462.10	464.21	482.76	465.02	462.75
462.49	459.86	463.31	471.66	464.22	477.02	465.03	461.38
462.50	476.90	463.33	461.83	464.24	468.64	465.04	469.04
462.52	464.19	463.34	487.06	464.25	457.95	465.05	470.01
462.55	476.62	463.35	471.02	464.26	485.61	465.06	462.32
462.56	451.44	463.36	479.87	464.28	471.44	465.07	479.00
462.57	467.95	463.37	470.21	464.29	468.07	465.09	474.49
462.59	478.03	463.38	470.36	464.30	476.34	465.10	474.53
462.60	477.47	463.42	451.24	464.31	453.84	465.11	485.31
462.61	473.29	463.44	491.15	464.34	475.92	465.12	459.21
462.62	489.88	463.45	490.15	464.35	461.43	465.13	475.50
462.63	478.29	463.46	466.95	464.36	475.95	465.14	489.35
462.64	482.55	463.48	482.32	464.38	482.95	465.15	496.58
462.65	467.47	463.49	473.29	464.39	467.62	465.16	468.26
462.67	472.90	463.50	475.94	464.41	475.26	465.17	489.74
462.68	481.33	463.52	501.55	464.42	458.62	465.18	469.90
462.69	496.45	463.54	469.96	464.44	477.69	465.20	462.69
462.71	457.52	463.55	461.96	464.45	459.61	465.21	475.83
462.72	474.71	463.56	484.78	464.47	462.51	465.22	464.77
462.73	460.44	463.58	476.42	464.49	471.68	465.23	484.79
462.74	457.93	463.59	456.10	464.51	488.50	465.24	468.40
462.75	470.98	463.60	470.78	464.52	473.47	465.27	458.94
462.76	485.54	463.61	481.52	464.54	475.02	465.28	453.87
462.79	476.72	463.62	468.07	464.56	486.55	465.32	465.63
462.80	467.60	463.63	472.55	464.57	484.67	465.33	463.05
462.81	493.82	463.64	471.13	464.59	484.44	465.34	477.93
462.82	470.47	463.65	471.66	464.60	452.78	465.35	478.69
462.84	468.74	463.66	464.71	464.61	476.91	465.36	468.24
462.85	468.97	463.67	462.63	464.63	476.40	465.38	479.97
462.86	470.23	463.68	486.18	464.64	489.70	465.39	483.76
462.87	472.35	463.71	469.22	464.65	463.40	465.40	475.75
462.88	474.61	463.76	474.37	464.66	463.46	465.44	466.22
462.89	497.49	463.77	486.38	464.68	479.93	465.45	470.69
462.90	465.87	463.78	458.98	464.69	480.55	465.47	476.92
462.91	473.99	463.79	472.18	464.70	470.25	465.48	455.70
462.93	462.95	463.80	462.18	464.72	481.67	465.49	479.80
462.94	472.42	463.81	479.96	464.73	479.30	465.50	478.33
462.97	467.60	463.82	461.14	464.74	469.01	465.51	467.66
462.99	475.61	463.83	461.84	464.75	458.56	465.52	482.58
463.00	490.19	463.84	457.39	464.76	465.70	465.53	473.51
463.01	485.18	463.86	466.97	464.77	456.91	465.54	457.95
463.05	478.80	463.87	480.84	464.78	469.94	465.58	481.41
463.08	469.40	463.88	466.49	464.80	488.53	465.59	483.05
463.09	468.74	463.90	463.15	464.81	472.93	465.62	466.87
463.10	475.64	463.91	463.99	464.82	463.28	465.63	462.98
463.12	465.31	463.93	478.07	464.83	461.96	465.64	473.10

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
465.68	466.36	466.56	456.61	467.43	469.77	468.34	475.13
465.69	478.10	466.57	474.75	467.44	477.74	468.35	476.45
465.70	491.25	466.58	458.30	467.47	470.94	468.36	467.06
465.72	465.26	466.59	469.82	467.48	471.24	468.37	501.59
465.74	460.03	466.62	472.66	467.49	474.37	468.38	473.51
465.76	454.67	466.64	486.26	467.50	484.97	468.39	466.07
465.77	473.14	466.65	481.19	467.51	480.63	468.41	467.49
465.80	477.12	466.69	455.18	467.53	460.97	468.42	482.40
465.81	475.01	466.71	491.17	467.54	481.72	468.44	473.27
465.82	470.42	466.74	483.23	467.56	450.99	468.45	480.77
465.83	470.52	466.76	486.45	467.58	469.70	468.46	480.03
465.87	468.41	466.77	486.83	467.59	483.49	468.48	469.35
465.88	500.84	466.78	474.56	467.60	469.03	468.49	477.84
465.89	478.56	466.79	464.55	467.61	481.44	468.50	491.29
465.92	480.50	466.80	463.65	467.62	479.34	468.52	470.54
465.93	473.84	466.81	461.70	467.64	467.00	468.53	459.47
465.94	483.82	466.82	462.18	467.68	453.17	468.54	477.61
465.95	480.32	466.83	480.59	467.69	460.24	468.56	479.54
465.96	456.76	466.88	494.82	467.70	475.93	468.57	496.91
465.98	470.92	466.91	447.73	467.72	465.61	468.58	484.12
466.00	473.63	466.92	503.55	467.75	480.51	468.59	473.13
466.05	473.63	466.93	469.53	467.76	481.80	468.60	473.29
466.06	490.42	466.94	510.23	467.78	463.46	468.62	469.25
466.07	502.18	466.95	456.38	467.79	481.16	468.63	481.74
466.08	457.32	466.97	462.26	467.80	473.92	468.64	482.37
466.09	485.12	466.98	459.07	467.82	470.61	468.66	483.24
466.11	475.78	466.99	483.91	467.83	473.41	468.67	468.45
466.12	460.20	467.00	469.84	467.84	483.91	468.68	475.10
466.14	472.02	467.01	470.41	467.85	471.07	468.70	501.91
466.15	481.54	467.02	485.13	467.86	475.95	468.73	466.18
466.16	475.92	467.03	477.04	467.87	485.33	468.74	475.71
466.18	488.09	467.04	469.56	467.89	466.55	468.75	475.91
466.19	480.61	467.05	468.76	467.90	462.49	468.76	483.03
466.20	474.01	467.08	487.12	467.91	461.04	468.77	480.08
466.21	471.04	467.10	451.23	467.92	468.99	468.78	464.39
466.22	480.29	467.11	467.32	467.93	475.38	468.79	482.07
466.24	467.92	467.13	476.78	467.96	461.11	468.80	478.61
466.26	469.10	467.14	497.00	467.97	471.56	468.81	495.06
466.27	465.05	467.15	465.19	467.98	489.57	468.82	473.77
466.30	481.88	467.16	480.26	467.99	490.22	468.83	470.02
466.32	483.16	467.17	466.75	468.00	457.46	468.84	471.26
466.34	486.04	467.18	467.93	468.03	482.80	468.85	478.38
466.35	481.67	467.19	469.67	468.05	488.71	468.86	479.97
466.36	473.82	467.20	462.48	468.07	478.59	468.87	479.15
466.37	476.31	467.22	463.29	468.08	494.35	468.88	481.53
466.38	472.72	467.23	487.24	468.10	470.14	468.90	479.77
466.39	468.84	467.25	467.61	468.11	465.05	468.91	481.32
466.40	476.54	467.26	479.27	468.12	472.73	468.92	471.71
466.41	483.28	467.27	474.87	468.14	481.20	468.93	464.38
466.42	453.66	467.29	470.34	468.15	474.14	468.94	492.36
466.43	480.74	467.30	483.91	468.18	469.97	468.95	471.52
466.44	509.68	467.31	484.51	468.19	481.71	468.97	494.25
466.45	478.01	467.32	472.32	468.22	468.41	468.98	469.10
466.47	479.61	467.33	486.09	468.24	481.44	468.99	476.39
466.48	480.78	467.34	465.71	468.25	470.47	469.00	476.17
466.49	465.65	467.35	490.12	468.27	478.18	469.01	479.03
466.50	499.45	467.38	472.97	468.29	454.10	469.02	478.58
466.51	481.85	467.39	464.11	468.30	485.20	469.03	487.98
466.54	472.69	467.41	473.60	468.31	491.78	469.04	498.96
466.55	489.30	467.42	471.04	468.33	491.22	469.06	467.12

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
469.07	491.80	469.84	474.58	470.76	485.01	471.74	495.99
469.08	482.18	469.85	480.33	470.77	474.05	471.75	477.54
469.10	481.20	469.87	476.26	470.78	458.82	471.76	483.17
469.11	489.33	469.88	462.30	470.81	469.44	471.77	483.35
469.13	473.35	469.89	501.11	470.82	470.86	471.78	473.93
469.15	481.28	469.90	482.73	470.83	467.08	471.79	478.88
469.17	475.80	469.94	475.33	470.84	485.21	471.80	482.50
469.20	477.10	469.97	464.67	470.85	487.92	471.81	487.33
469.21	471.29	469.98	471.45	470.86	486.94	471.84	508.06
469.22	468.72	470.00	480.11	470.87	464.84	471.85	466.50
469.24	476.29	470.01	480.25	470.88	494.31	471.86	490.81
469.25	489.01	470.02	470.89	470.89	480.70	471.87	469.14
469.26	483.75	470.03	478.04	470.91	478.61	471.89	474.31
469.27	476.74	470.04	476.98	470.92	481.05	471.91	482.31
469.28	487.37	470.05	493.52	470.93	474.98	471.92	474.39
469.29	475.65	470.09	485.66	470.94	487.40	471.93	495.02
469.30	481.90	470.10	482.27	470.95	481.16	471.95	483.33
469.32	477.55	470.11	463.77	470.97	485.59	471.96	487.81
469.34	473.85	470.12	472.04	470.99	473.94	471.97	468.50
469.35	471.41	470.13	483.82	471.00	476.37	472.00	467.66
469.37	479.45	470.15	479.05	471.05	485.21	472.01	486.48
469.38	474.10	470.16	471.54	471.06	479.80	472.04	498.72
469.39	478.36	470.17	485.90	471.07	487.08	472.05	473.48
469.40	460.19	470.20	468.71	471.09	470.46	472.08	475.67
469.41	471.01	470.21	474.61	471.10	500.66	472.09	468.93
469.42	488.01	470.25	484.09	471.11	468.87	472.10	479.25
469.43	473.23	470.26	480.10	471.12	504.62	472.13	465.20
469.44	492.81	470.27	473.49	471.13	475.14	472.14	474.19
469.45	481.17	470.29	477.57	471.15	491.92	472.15	496.81
469.46	473.82	470.30	484.54	471.16	463.21	472.17	481.71
469.47	465.30	470.31	472.74	471.17	471.26	472.18	494.49
469.48	502.98	470.32	464.71	471.20	474.00	472.19	473.54
469.49	468.70	470.33	465.70	471.21	501.74	472.20	463.27
469.50	461.04	470.34	469.40	471.24	499.83	472.21	478.83
469.52	472.87	470.35	468.95	471.25	475.01	472.22	476.94
469.53	478.81	470.38	474.29	471.28	478.42	472.23	482.23
469.54	474.02	470.40	491.99	471.30	465.37	472.25	480.85
469.55	474.97	470.41	480.48	471.31	468.02	472.26	476.12
469.56	463.33	470.43	470.17	471.32	476.40	472.28	476.11
469.57	457.95	470.46	481.99	471.36	475.53	472.29	490.97
469.58	482.47	470.47	472.54	471.41	491.50	472.31	478.31
469.60	456.86	470.48	490.58	471.46	493.10	472.32	487.33
469.61	479.09	470.50	473.21	471.47	483.15	472.33	488.27
469.62	479.09	470.51	465.33	471.49	488.33	472.34	475.03
469.64	484.37	470.52	484.33	471.52	468.34	472.37	473.74
469.65	482.73	470.54	473.24	471.53	472.22	472.41	491.02
469.66	474.50	470.55	462.60	471.55	481.28	472.44	467.01
469.67	486.24	470.56	481.48	471.56	491.49	472.45	490.11
469.68	483.94	470.58	466.27	471.57	485.37	472.47	468.56
469.69	463.28	470.59	484.23	471.60	506.09	472.49	480.32
469.70	473.61	470.60	479.16	471.62	484.85	472.50	467.23
469.72	485.45	470.61	486.05	471.63	484.10	472.52	473.74
469.73	472.82	470.63	494.95	471.64	482.61	472.53	469.71
469.74	485.44	470.64	470.79	471.65	474.95	472.56	481.14
469.75	456.58	470.66	492.15	471.66	502.10	472.58	475.53
469.76	484.29	470.69	465.06	471.67	475.17	472.59	487.88
469.78	479.80	470.70	472.36	471.68	506.98	472.60	477.06
469.79	469.13	470.71	487.71	471.70	469.86	472.61	479.02
469.80	468.87	470.72	474.74	471.71	475.18	472.63	465.17
469.82	476.64	470.73	477.06	471.73	480.88	472.64	482.56



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
472.65	471.89	473.48	464.54	474.39	476.07	475.21	479.98
472.66	479.32	473.51	466.59	474.40	488.93	475.23	489.02
472.67	470.88	473.52	490.61	474.41	494.75	475.24	491.50
472.68	450.07	473.55	472.84	474.42	490.85	475.25	483.77
472.70	480.43	473.57	491.06	474.45	488.06	475.26	489.97
472.74	476.73	473.59	475.23	474.47	519.20	475.27	485.50
472.75	487.95	473.60	469.43	474.48	477.41	475.28	498.12
472.77	483.33	473.61	476.90	474.49	472.81	475.29	475.11
472.78	475.44	473.62	470.93	474.50	474.81	475.32	488.72
472.79	466.42	473.64	480.27	474.51	481.41	475.33	487.99
472.80	473.91	473.65	491.12	474.53	482.04	475.35	473.30
472.81	491.04	473.67	478.04	474.54	476.06	475.38	462.76
472.82	489.25	473.70	475.37	474.55	485.81	475.39	482.32
472.83	482.80	473.71	467.82	474.56	464.83	475.41	479.90
472.84	477.99	473.72	473.62	474.57	490.48	475.42	498.85
472.90	482.10	473.73	493.08	474.58	477.56	475.43	490.58
472.92	475.51	473.75	488.69	474.59	472.10	475.44	477.78
472.93	491.48	473.76	511.02	474.60	485.50	475.46	497.98
472.95	484.34	473.79	490.19	474.61	475.98	475.48	485.68
472.96	478.11	473.81	492.86	474.62	470.06	475.49	495.68
472.97	504.05	473.82	492.73	474.63	485.08	475.52	489.28
472.99	490.36	473.83	464.89	474.64	491.28	475.53	467.13
473.01	480.71	473.87	469.41	474.66	478.17	475.54	477.11
473.02	467.50	473.88	481.88	474.67	492.16	475.55	473.92
473.03	489.35	473.89	487.56	474.70	486.13	475.58	469.91
473.04	474.84	473.90	513.19	474.71	485.39	475.59	478.68
473.05	485.54	473.91	484.37	474.74	490.60	475.60	485.91
473.07	481.24	473.94	477.95	474.75	495.18	475.61	484.43
473.09	486.34	473.97	493.97	474.76	506.44	475.62	478.40
473.10	487.60	473.99	497.78	474.77	461.00	475.65	485.31
473.11	476.25	474.00	485.72	474.78	507.64	475.66	475.82
473.12	478.95	474.01	477.05	474.81	496.44	475.67	494.45
473.13	484.89	474.02	478.74	474.82	490.01	475.68	472.39
473.14	484.02	474.03	481.94	474.83	485.49	475.69	487.14
473.15	466.64	474.04	485.01	474.84	477.09	475.70	479.90
473.16	483.78	474.05	473.16	474.86	474.27	475.71	495.09
473.20	495.40	474.07	483.27	474.87	481.67	475.72	498.21
473.21	495.20	474.10	483.05	474.88	479.75	475.75	504.76
473.23	456.55	474.11	475.02	474.89	481.18	475.76	473.03
473.24	511.40	474.12	494.55	474.90	484.63	475.77	468.95
473.25	473.91	474.13	503.91	474.91	465.34	475.79	492.78
473.26	488.74	474.14	477.29	474.94	496.20	475.80	475.71
473.27	482.02	474.17	496.63	474.95	467.15	475.81	490.69
473.28	483.11	474.18	490.59	474.96	475.28	475.82	457.43
473.30	496.08	474.19	477.30	474.98	492.73	475.83	482.26
473.31	497.17	474.21	485.73	474.99	484.38	475.84	460.33
473.32	478.40	474.22	484.23	475.00	492.69	475.86	493.00
473.33	481.06	474.24	483.95	475.01	469.45	475.90	483.56
473.34	470.55	474.25	507.64	475.02	479.21	475.91	483.91
473.35	484.31	474.26	480.45	475.05	477.24	475.92	482.99
473.37	494.16	474.27	481.15	475.06	474.18	475.93	494.46
473.38	491.24	474.28	515.29	475.07	479.88	475.96	489.61
473.39	486.10	474.29	480.09	475.10	524.03	475.97	483.71
473.40	493.74	474.30	480.95	475.11	488.59	475.99	497.21
473.42	480.77	474.31	477.45	475.12	486.29	476.00	479.45
473.43	488.02	474.32	485.46	475.13	482.67	476.01	482.60
473.44	475.15	474.33	488.81	475.16	489.66	476.03	504.30
473.45	489.71	474.34	476.48	475.17	486.47	476.04	477.50
473.46	492.91	474.36	511.63	475.19	497.22	476.05	491.29
473.47	475.15	474.37	492.05	475.20	480.11	476.06	476.54

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
476.07	493.38	476.84	497.56	477.70	480.37	478.58	494.30
476.08	497.30	476.85	486.94	477.71	461.04	478.59	479.45
476.09	491.99	476.86	497.29	477.73	488.81	478.60	499.45
476.10	478.48	476.88	479.11	477.74	493.99	478.61	482.07
476.11	482.15	476.89	477.36	477.75	477.95	478.62	504.88
476.12	481.94	476.90	483.07	477.77	474.61	478.63	480.05
476.14	483.29	476.91	483.49	477.78	488.80	478.64	473.30
476.15	486.50	476.92	472.73	477.79	486.49	478.69	495.93
476.16	468.52	476.93	487.59	477.83	484.35	478.70	487.49
476.17	467.00	476.95	486.12	477.84	470.73	478.71	480.34
476.18	487.81	476.96	484.71	477.85	457.35	478.73	479.69
476.19	492.86	476.98	492.65	477.86	498.54	478.77	487.17
476.21	483.79	477.00	476.06	477.88	491.47	478.78	481.77
476.22	489.10	477.01	488.02	477.89	483.42	478.79	475.88
476.23	476.35	477.02	479.91	477.90	480.76	478.80	496.71
476.25	480.88	477.04	492.07	477.91	495.73	478.83	479.90
476.26	477.12	477.07	493.57	477.93	488.86	478.84	492.90
476.27	486.72	477.08	475.98	477.94	507.51	478.85	472.60
476.28	473.13	477.09	483.32	477.96	494.67	478.86	472.42
476.29	472.48	477.10	495.57	477.97	484.60	478.89	499.93
476.30	483.92	477.11	496.80	477.99	476.28	478.92	489.09
476.31	494.25	477.13	484.53	478.02	493.79	478.93	489.01
476.32	512.40	477.14	493.53	478.03	497.02	478.95	501.70
476.33	497.91	477.16	490.03	478.04	508.43	478.97	487.15
476.34	496.04	477.18	504.95	478.06	486.28	478.98	490.26
476.35	476.44	477.20	474.10	478.07	490.28	479.00	471.57
476.36	483.67	477.21	479.41	478.09	495.19	479.01	490.95
476.38	479.65	477.23	496.88	478.10	490.27	479.03	482.59
476.39	472.98	477.24	480.90	478.11	477.87	479.04	504.11
476.40	497.13	477.25	479.33	478.12	494.96	479.06	476.49
476.41	480.04	477.26	469.95	478.15	482.91	479.09	483.07
476.42	465.18	477.27	487.69	478.16	494.77	479.10	474.15
476.43	486.10	477.28	491.86	478.19	482.90	479.11	493.83
476.44	499.73	477.29	475.27	478.20	484.15	479.12	489.58
476.46	485.14	477.30	480.99	478.21	468.15	479.13	493.25
476.47	473.55	477.31	481.67	478.23	481.31	479.14	477.68
476.48	478.30	477.32	492.38	478.24	502.30	479.15	477.19
476.49	466.11	477.33	499.24	478.25	493.43	479.16	483.22
476.51	472.55	477.34	480.58	478.26	486.06	479.17	481.45
476.55	479.08	477.37	472.14	478.31	479.88	479.20	490.67
476.57	508.45	477.38	478.32	478.32	500.08	479.22	474.58
476.58	473.94	477.39	483.67	478.34	487.20	479.23	496.31
476.59	481.78	477.41	490.88	478.35	493.98	479.24	478.68
476.61	488.47	477.42	477.42	478.36	498.84	479.27	491.26
476.62	483.49	477.45	466.93	478.39	495.73	479.29	477.63
476.63	481.05	477.48	477.41	478.40	485.08	479.30	467.57
476.65	488.24	477.50	470.18	478.41	501.91	479.35	485.04
476.68	506.32	477.51	475.77	478.42	483.15	479.36	514.31
476.69	476.71	477.53	513.07	478.43	473.30	479.37	506.71
476.70	479.88	477.54	486.69	478.45	495.45	479.39	490.96
476.71	483.77	477.55	490.48	478.46	474.64	479.40	488.25
476.72	481.75	477.58	464.35	478.47	499.17	479.42	498.34
476.73	473.12	477.59	493.23	478.49	472.69	479.43	490.45
476.75	488.00	477.60	485.64	478.50	482.78	479.48	480.67
476.76	508.99	477.62	490.23	478.52	476.94	479.49	479.01
476.77	492.98	477.65	492.05	478.53	494.37	479.50	485.63
476.79	500.80	477.66	496.26	478.54	496.08	479.51	478.00
476.80	472.33	477.67	502.28	478.55	483.49	479.52	487.96
476.81	479.23	477.68	475.11	478.56	489.51	479.55	513.10
476.83	490.18	477.69	485.54	478.57	489.62	479.56	481.17

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
479.57	494.75	480.43	479.40	481.32	477.51	482.12	505.16
479.59	487.02	480.44	476.02	481.33	473.76	482.14	484.73
479.61	491.44	480.45	494.80	481.34	469.40	482.15	501.88
479.62	487.70	480.46	510.00	481.35	483.80	482.16	489.02
479.63	477.01	480.47	493.98	481.37	508.60	482.17	500.11
479.64	496.44	480.48	489.28	481.39	480.70	482.18	497.63
479.66	494.03	480.51	493.27	481.40	481.50	482.19	474.81
479.67	490.10	480.52	501.69	481.41	490.63	482.20	481.55
479.69	479.50	480.53	495.19	481.42	481.61	482.23	508.44
479.70	482.75	480.54	481.05	481.43	482.50	482.24	490.28
479.71	494.02	480.55	484.20	481.45	474.65	482.25	502.15
479.73	482.71	480.56	487.93	481.46	490.80	482.26	479.60
479.74	492.59	480.60	492.71	481.48	487.46	482.28	483.13
479.75	487.59	480.63	480.94	481.49	480.06	482.29	489.13
479.76	491.30	480.64	477.43	481.51	485.92	482.30	483.55
479.78	496.97	480.65	497.67	481.52	465.72	482.31	490.35
479.80	499.57	480.66	494.71	481.54	492.49	482.32	498.42
479.82	493.92	480.68	488.51	481.55	488.81	482.36	494.24
479.84	486.85	480.70	500.49	481.56	476.00	482.39	474.85
479.88	493.99	480.71	494.10	481.58	481.54	482.40	505.41
479.89	468.61	480.72	492.50	481.59	501.92	482.41	481.81
479.91	492.49	480.76	499.58	481.60	488.78	482.42	469.06
479.92	487.86	480.77	484.28	481.61	484.73	482.46	515.79
479.94	488.61	480.78	493.35	481.67	489.49	482.47	481.30
479.95	477.32	480.79	483.15	481.69	491.32	482.48	484.44
479.96	488.67	480.81	497.25	481.70	487.73	482.49	491.86
480.00	496.96	480.82	475.10	481.72	494.07	482.50	494.87
480.01	494.22	480.84	464.61	481.73	479.26	482.51	506.48
480.02	484.73	480.86	493.42	481.75	487.97	482.52	490.23
480.03	494.64	480.87	485.27	481.76	494.09	482.53	493.50
480.05	523.54	480.89	473.97	481.77	502.23	482.54	506.18
480.06	490.29	480.90	487.60	481.78	468.26	482.57	499.84
480.07	486.39	480.91	479.67	481.79	492.57	482.59	463.11
480.08	488.08	480.92	492.82	481.80	501.70	482.60	492.90
480.09	487.30	480.93	492.24	481.81	487.70	482.61	501.14
480.10	486.24	480.94	482.66	481.82	487.06	482.62	478.83
480.11	491.07	480.95	488.78	481.83	502.16	482.63	490.39
480.13	485.97	480.98	479.73	481.84	490.67	482.64	496.37
480.14	500.34	481.01	481.87	481.86	492.98	482.65	490.93
480.15	484.60	481.02	480.92	481.87	473.77	482.68	476.60
480.16	501.63	481.05	484.34	481.88	501.92	482.69	503.48
480.17	503.54	481.06	467.99	481.90	491.74	482.70	498.65
480.18	494.43	481.07	479.36	481.91	477.11	482.71	484.95
480.20	504.16	481.10	501.92	481.93	495.56	482.72	480.46
480.21	476.31	481.11	491.89	481.94	480.00	482.73	490.87
480.22	480.22	481.13	478.22	481.95	490.79	482.77	502.76
480.25	487.20	481.14	493.53	481.96	483.10	482.79	488.13
480.26	487.82	481.15	513.51	481.97	471.51	482.80	480.46
480.27	490.51	481.16	485.29	481.99	486.47	482.81	482.49
480.28	482.27	481.17	465.75	482.00	492.35	482.82	488.36
480.29	489.36	481.18	495.11	482.01	487.08	482.84	493.02
480.30	480.19	481.20	489.55	482.02	491.71	482.85	497.23
480.32	481.47	481.22	485.35	482.03	502.76	482.86	485.87
480.34	493.45	481.23	498.95	482.04	488.90	482.89	497.40
480.36	480.86	481.25	489.45	482.05	487.55	482.90	496.43
480.37	481.17	481.27	483.27	482.06	489.73	482.91	493.09
480.38	490.33	481.28	484.87	482.07	506.68	482.92	479.45
480.39	489.90	481.29	477.82	482.09	495.61	482.93	495.43
480.41	499.80	481.30	500.14	482.10	483.44	482.94	482.27
480.42	484.85	481.31	494.50	482.11	492.93	482.95	488.99

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
482.96	496.64	483.84	498.74	484.57	498.57	485.48	499.54
482.98	493.85	483.85	495.92	484.59	488.62	485.50	476.53
482.99	485.99	483.86	485.48	484.60	483.77	485.51	499.62
483.00	515.11	483.87	487.42	484.61	492.58	485.52	499.77
483.01	486.72	483.88	500.29	484.62	483.61	485.53	497.46
483.02	485.65	483.90	497.28	484.63	515.05	485.54	488.83
483.03	483.14	483.91	500.48	484.64	492.96	485.55	505.16
483.04	494.01	483.92	481.69	484.69	505.16	485.56	499.46
483.05	478.20	483.93	476.37	484.70	495.08	485.57	502.49
483.06	490.45	483.95	498.12	484.71	496.30	485.58	487.70
483.09	483.86	483.97	490.73	484.72	507.03	485.59	482.67
483.10	479.96	483.98	477.61	484.73	487.08	485.61	498.27
483.11	485.13	483.99	490.89	484.75	491.51	485.62	481.78
483.17	485.04	484.00	494.71	484.77	481.74	485.63	491.53
483.18	491.56	484.02	500.80	484.79	501.31	485.65	487.85
483.19	501.92	484.03	502.08	484.80	498.98	485.66	496.13
483.20	499.56	484.05	493.99	484.81	473.49	485.67	471.14
483.21	496.80	484.06	501.04	484.82	483.50	485.68	505.62
483.23	487.07	484.07	475.51	484.83	497.75	485.70	493.68
483.25	472.59	484.08	504.66	484.84	494.44	485.71	491.18
483.28	488.32	484.09	494.95	484.85	491.86	485.72	492.41
483.29	516.46	484.10	479.82	484.86	499.70	485.73	503.48
483.30	504.90	484.11	479.29	484.87	497.95	485.74	505.07
483.31	486.88	484.13	477.11	484.88	489.55	485.76	494.32
483.32	494.71	484.15	479.48	484.90	503.31	485.78	480.77
483.35	497.45	484.16	507.28	484.91	494.42	485.79	514.52
483.38	484.61	484.17	493.61	484.92	496.17	485.80	490.62
483.39	513.61	484.18	491.81	484.93	497.92	485.81	496.35
483.40	512.60	484.19	478.12	484.96	496.63	485.83	492.02
483.41	480.90	484.20	492.69	484.98	494.96	485.84	488.87
483.42	494.64	484.21	493.93	484.99	502.20	485.85	487.49
483.43	484.29	484.22	491.77	485.01	488.54	485.87	514.07
483.44	497.27	484.23	495.60	485.03	488.43	485.88	492.66
483.46	512.38	484.24	500.56	485.04	499.10	485.89	484.77
483.47	499.62	484.25	489.77	485.06	485.08	485.91	487.79
483.48	494.76	484.26	486.00	485.07	505.31	485.93	487.59
483.49	481.99	484.27	492.04	485.08	485.31	485.94	489.32
483.50	492.36	484.30	508.79	485.10	492.22	485.98	483.07
483.52	485.99	484.31	489.50	485.11	498.86	485.99	494.07
483.54	495.75	484.32	498.38	485.12	487.71	486.00	520.65
483.56	478.04	484.33	479.40	485.13	487.24	486.01	489.31
483.57	487.32	484.35	489.70	485.14	497.41	486.02	477.73
483.59	512.13	484.36	482.49	485.15	481.12	486.03	491.16
483.60	498.12	484.37	485.27	485.16	493.00	486.04	497.08
483.61	490.22	484.39	494.07	485.18	496.04	486.06	515.22
483.63	488.03	484.40	481.71	485.19	487.29	486.08	499.22
483.64	500.07	484.41	492.13	485.21	480.54	486.10	500.84
483.66	515.63	484.42	501.42	485.22	497.89	486.11	490.50
483.67	489.70	484.43	496.47	485.23	497.06	486.12	469.22
483.69	478.14	484.44	494.41	485.24	490.72	486.13	495.13
483.70	493.40	484.45	492.56	485.26	515.11	486.15	486.87
483.71	474.41	484.46	483.95	485.27	492.92	486.16	491.07
483.73	496.15	484.47	487.84	485.32	486.67	486.17	478.93
483.74	494.01	484.48	489.63	485.33	478.59	486.18	482.17
483.75	496.74	484.49	495.72	485.36	504.78	486.19	510.47
483.79	491.80	484.50	484.95	485.38	493.35	486.20	493.70
483.80	490.88	484.51	487.13	485.39	487.99	486.21	504.97
483.81	489.40	484.52	483.94	485.40	496.57	486.22	522.12
483.82	485.77	484.53	494.74	485.45	511.26	486.23	475.13
483.83	513.25	484.55	492.49	485.46	503.49	486.24	505.68

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
486.26	497.59	487.08	507.02	487.87	507.81	488.78	492.74
486.27	511.21	487.09	495.15	487.89	501.26	488.79	496.18
486.28	476.20	487.10	492.44	487.92	501.85	488.83	488.47
486.29	494.79	487.11	488.57	487.94	496.74	488.84	504.51
486.30	478.31	487.12	502.54	487.95	499.18	488.85	505.01
486.31	497.49	487.14	510.52	487.96	481.98	488.86	505.22
486.32	497.17	487.15	498.40	487.97	502.06	488.87	497.21
486.33	508.28	487.17	499.05	488.00	521.37	488.88	505.12
486.34	510.16	487.18	491.28	488.01	489.18	488.89	491.95
486.35	493.71	487.19	489.34	488.02	498.77	488.91	502.07
486.38	495.40	487.20	495.28	488.03	493.10	488.92	502.73
486.39	496.42	487.23	497.10	488.04	484.56	488.93	490.65
486.40	515.09	487.24	500.35	488.06	502.76	488.94	492.18
486.41	502.09	487.25	488.53	488.07	497.40	488.95	483.84
486.44	495.07	487.27	489.71	488.09	495.80	488.96	495.90
486.45	478.29	487.28	502.72	488.11	477.67	488.97	502.00
486.47	494.14	487.30	498.35	488.14	490.33	489.02	476.28
486.48	494.40	487.32	491.78	488.15	520.52	489.03	473.21
486.49	492.48	487.33	495.60	488.17	500.23	489.04	489.25
486.50	504.52	487.34	488.70	488.18	495.24	489.07	505.28
486.51	500.33	487.35	494.14	488.20	492.95	489.08	491.52
486.52	502.45	487.36	497.76	488.21	480.91	489.09	483.96
486.53	494.71	487.38	490.73	488.22	496.48	489.10	478.27
486.56	490.32	487.40	488.95	488.23	498.92	489.11	503.18
486.58	486.30	487.42	505.26	488.24	494.24	489.13	491.31
486.60	494.15	487.46	493.47	488.28	505.11	489.15	485.78
486.62	508.78	487.47	494.19	488.29	493.92	489.16	480.59
486.63	497.68	487.49	506.35	488.32	498.95	489.17	488.45
486.64	505.77	487.50	496.15	488.33	498.15	489.19	491.59
486.65	509.79	487.51	504.28	488.34	501.81	489.21	498.13
486.66	493.67	487.52	518.95	488.36	508.44	489.22	488.18
486.67	499.75	487.54	502.24	488.37	490.47	489.23	495.63
486.69	497.53	487.55	484.02	488.38	501.69	489.24	499.30
486.71	498.92	487.56	480.76	488.39	485.39	489.26	506.39
486.72	472.97	487.57	495.22	488.40	500.21	489.27	492.55
486.73	490.13	487.58	491.96	488.41	501.73	489.28	487.71
486.75	503.87	487.59	486.78	488.43	494.90	489.30	499.04
486.79	485.88	487.60	494.94	488.44	483.09	489.32	497.20
486.80	496.29	487.61	502.27	488.46	500.38	489.33	495.30
486.81	485.80	487.62	505.62	488.47	491.81	489.34	487.10
486.82	505.81	487.63	512.10	488.48	488.33	489.35	501.42
486.83	512.20	487.64	487.51	488.49	493.85	489.37	524.66
486.84	521.74	487.65	488.53	488.50	497.73	489.38	493.91
486.85	504.40	487.67	490.75	488.51	525.68	489.39	499.38
486.86	488.46	487.68	495.49	488.54	497.05	489.40	501.84
486.87	492.83	487.69	491.92	488.56	485.20	489.41	498.61
486.88	501.19	487.71	497.58	488.57	505.75	489.42	492.37
486.89	510.05	487.73	487.45	488.58	491.94	489.43	500.46
486.90	480.24	487.74	506.10	488.59	490.40	489.44	493.32
486.92	489.05	487.76	493.87	488.62	499.16	489.45	501.82
486.94	502.99	487.77	497.63	488.63	479.02	489.46	502.91
486.95	480.19	487.78	492.85	488.64	495.91	489.47	497.13
486.96	493.37	487.79	480.12	488.65	502.81	489.48	494.74
486.97	501.06	487.80	486.29	488.66	482.79	489.49	513.62
486.98	482.20	487.81	483.67	488.67	480.07	489.51	487.28
487.01	503.69	487.82	499.33	488.69	487.80	489.52	507.61
487.02	494.47	487.83	515.73	488.70	498.36	489.54	498.72
487.04	504.88	487.84	506.27	488.71	496.97	489.55	490.54
487.05	520.15	487.85	485.93	488.73	500.77	489.56	489.21
487.07	494.11	487.86	497.10	488.77	489.88	489.57	485.32

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
489.59	505.86	490.49	483.99	491.25	519.69	492.10	498.19
489.61	513.45	490.50	508.01	491.27	495.11	492.12	492.09
489.63	494.78	490.51	510.65	491.29	504.04	492.13	510.71
489.64	504.77	490.52	487.23	491.30	480.26	492.14	502.31
489.66	507.24	490.53	505.33	491.31	499.89	492.15	486.47
489.67	499.07	490.54	490.31	491.34	493.34	492.16	509.42
489.68	511.40	490.55	493.65	491.35	498.41	492.19	503.70
489.75	504.13	490.56	491.91	491.37	507.33	492.20	499.10
489.76	508.49	490.59	532.79	491.39	490.43	492.21	499.11
489.77	506.26	490.60	482.58	491.40	513.89	492.22	520.49
489.80	497.56	490.62	493.78	491.42	501.79	492.24	494.69
489.81	499.33	490.63	500.39	491.43	492.23	492.25	515.09
489.82	519.44	490.64	496.84	491.44	486.10	492.26	530.51
489.83	501.68	490.65	495.46	491.45	498.72	492.27	503.82
489.84	488.02	490.66	514.87	491.46	506.60	492.28	518.60
489.85	502.16	490.67	506.90	491.47	511.20	492.29	488.24
489.87	501.14	490.69	493.04	491.48	496.30	492.30	534.46
489.89	495.54	490.70	491.41	491.49	520.54	492.34	509.03
489.90	501.31	490.74	491.04	491.51	477.72	492.35	521.14
489.91	496.64	490.75	526.02	491.52	497.17	492.37	494.90
489.93	503.83	490.76	494.51	491.54	489.00	492.38	507.80
489.96	486.97	490.77	490.68	491.55	497.25	492.39	488.89
489.98	484.27	490.78	515.89	491.59	497.66	492.40	509.10
489.99	485.09	490.79	492.13	491.60	490.26	492.41	507.58
490.00	504.72	490.80	496.90	491.61	502.30	492.43	488.07
490.01	489.38	490.82	498.97	491.62	488.11	492.44	508.20
490.02	505.01	490.84	476.38	491.63	508.75	492.45	504.30
490.05	488.25	490.85	499.17	491.64	507.52	492.49	491.66
490.07	507.34	490.86	512.17	491.65	498.46	492.50	488.43
490.08	502.28	490.87	494.64	491.66	515.98	492.52	496.94
490.09	495.49	490.88	500.72	491.67	494.83	492.53	505.46
490.10	516.21	490.89	499.33	491.69	504.25	492.54	494.22
490.11	509.25	490.90	488.59	491.73	529.10	492.55	498.12
490.12	495.78	490.91	527.68	491.75	507.47	492.58	492.74
490.15	487.09	490.93	489.51	491.76	496.68	492.59	498.59
490.16	493.57	490.94	516.60	491.77	492.53	492.60	495.39
490.18	497.48	490.95	529.86	491.78	499.32	492.61	503.85
490.19	499.91	490.96	502.22	491.80	484.02	492.62	496.55
490.20	502.03	490.98	483.89	491.81	494.28	492.63	490.29
490.22	504.71	491.00	500.18	491.82	496.80	492.64	493.70
490.23	493.81	491.01	504.68	491.83	506.81	492.65	501.47
490.24	525.35	491.02	491.04	491.84	491.13	492.67	501.37
490.25	484.82	491.04	488.98	491.85	499.27	492.69	515.30
490.27	486.37	491.05	496.94	491.90	509.55	492.71	501.78
490.29	506.80	491.06	506.42	491.91	497.29	492.73	497.44
490.30	513.78	491.07	512.93	491.92	485.73	492.75	501.23
490.31	518.18	491.08	492.35	491.93	512.41	492.76	499.67
490.33	497.93	491.09	502.46	491.94	500.67	492.77	494.16
490.34	504.97	491.10	496.25	491.95	490.93	492.78	495.08
490.35	502.40	491.11	488.34	491.96	496.47	492.79	516.86
490.36	503.06	491.13	501.66	491.97	505.71	492.80	494.73
490.37	491.28	491.14	480.94	491.99	505.39	492.81	492.45
490.38	498.21	491.15	500.74	492.00	490.83	492.82	504.98
490.39	480.46	491.16	500.29	492.01	477.29	492.84	481.39
490.41	502.44	491.18	532.84	492.02	496.94	492.85	507.89
490.44	503.96	491.19	500.55	492.04	508.74	492.87	502.71
490.45	491.77	491.21	499.58	492.05	491.62	492.88	492.66
490.46	501.94	491.22	516.91	492.07	494.88	492.89	493.97
490.47	495.31	491.23	493.04	492.08	500.31	492.90	493.83
490.48	497.15	491.24	519.33	492.09	498.51	492.91	501.87

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
492.93	505.57	493.76	494.64	494.55	505.51	495.40	496.87
492.95	493.91	493.77	498.13	494.56	496.10	495.41	488.08
492.96	505.17	493.78	505.70	494.59	495.17	495.42	505.55
492.97	505.64	493.79	495.89	494.60	509.43	495.43	500.52
493.02	519.67	493.81	502.21	494.63	497.62	495.44	515.86
493.03	512.42	493.82	508.77	494.65	523.31	495.45	492.64
493.04	522.61	493.83	501.85	494.66	491.18	495.46	500.07
493.06	498.87	493.85	479.17	494.67	503.41	495.47	501.95
493.09	486.40	493.87	500.10	494.69	517.47	495.48	508.49
493.11	498.63	493.88	497.30	494.70	520.42	495.51	510.00
493.12	513.95	493.89	504.37	494.71	495.70	495.52	504.85
493.14	509.54	493.90	534.83	494.72	500.36	495.53	502.38
493.15	503.61	493.91	491.08	494.73	489.48	495.55	524.84
493.16	504.18	493.92	513.32	494.74	494.73	495.56	489.39
493.17	490.26	493.93	500.29	494.75	505.12	495.57	504.80
493.18	497.61	493.94	509.21	494.76	503.79	495.58	512.48
493.19	498.62	493.95	498.70	494.77	497.04	495.60	501.19
493.20	517.90	493.96	502.43	494.78	494.64	495.62	499.41
493.24	486.42	493.97	491.44	494.79	480.78	495.63	502.34
493.25	498.48	493.98	500.01	494.80	521.53	495.64	505.93
493.26	499.28	493.99	507.93	494.81	487.08	495.67	507.30
493.27	506.40	494.01	512.12	494.82	499.37	495.69	507.82
493.28	527.31	494.02	493.38	494.84	509.18	495.70	488.35
493.29	493.43	494.03	499.53	494.85	510.73	495.71	498.62
493.30	493.64	494.04	498.33	494.86	507.95	495.72	502.60
493.31	491.46	494.05	499.53	494.88	498.83	495.73	495.81
493.32	506.10	494.06	506.05	494.89	506.82	495.75	523.65
493.34	523.19	494.07	502.37	494.91	506.68	495.76	518.14
493.35	496.07	494.08	508.66	494.92	485.94	495.77	510.53
493.36	490.31	494.10	498.77	494.93	500.93	495.78	507.21
493.37	508.90	494.11	484.74	494.94	507.32	495.79	504.98
493.38	510.15	494.12	511.18	494.95	496.39	495.80	533.10
493.39	500.47	494.13	488.10	494.97	485.63	495.82	500.56
493.41	504.92	494.14	494.06	494.98	503.09	495.84	488.98
493.42	504.17	494.17	499.97	494.99	512.15	495.85	506.45
493.43	502.46	494.18	494.21	495.00	487.06	495.86	508.37
493.45	516.00	494.19	509.65	495.01	494.75	495.87	493.89
493.46	507.08	494.21	497.37	495.02	515.63	495.88	508.27
493.47	500.75	494.22	502.20	495.03	503.72	495.89	509.35
493.48	527.10	494.24	495.78	495.07	499.92	495.91	504.04
493.50	495.69	494.25	500.66	495.10	482.85	495.92	521.46
493.51	506.09	494.27	527.90	495.11	489.80	495.93	512.39
493.52	506.94	494.29	497.38	495.12	496.18	495.94	509.05
493.53	495.59	494.30	505.03	495.19	492.99	495.95	501.21
493.55	491.28	494.31	500.61	495.20	497.72	495.96	501.21
493.57	506.77	494.34	508.57	495.21	497.35	495.97	482.98
493.58	503.33	494.35	503.66	495.22	491.33	496.00	504.45
493.59	493.66	494.36	498.34	495.23	505.53	496.01	532.28
493.60	506.00	494.38	496.70	495.24	507.94	496.02	520.57
493.63	492.48	494.40	507.70	495.25	513.51	496.03	492.87
493.64	494.66	494.41	522.30	495.26	494.29	496.04	529.09
493.65	503.75	494.42	520.34	495.28	507.70	496.05	527.78
493.66	502.83	494.43	513.90	495.30	493.32	496.06	495.56
493.67	503.07	494.44	501.93	495.31	501.22	496.07	509.37
493.68	499.96	494.45	526.78	495.33	514.91	496.08	511.77
493.69	507.75	494.46	506.19	495.34	501.04	496.09	508.66
493.70	505.86	494.47	496.71	495.35	509.15	496.11	504.72
493.71	512.37	494.48	533.36	495.37	514.34	496.13	508.56
493.74	495.30	494.51	497.82	495.38	507.64	496.14	496.78
493.75	502.25	494.53	493.95	495.39	501.11	496.15	481.76

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
496.17	496.71	496.97	502.11	497.82	508.36	498.60	506.40
496.18	494.81	496.98	505.32	497.83	515.01	498.62	506.81
496.19	495.57	496.99	501.32	497.84	505.49	498.64	502.21
496.20	492.63	497.00	515.68	497.85	494.91	498.65	503.71
496.21	500.00	497.01	496.61	497.87	498.23	498.67	517.53
496.22	503.67	497.02	500.75	497.88	509.21	498.69	498.05
496.23	497.18	497.03	505.26	497.89	506.22	498.70	502.25
496.26	496.94	497.04	510.81	497.90	510.59	498.72	511.60
496.28	499.51	497.05	508.72	497.91	506.26	498.74	508.63
496.29	516.46	497.06	501.16	497.92	500.65	498.75	536.76
496.30	508.46	497.07	496.10	497.93	501.60	498.76	506.68
496.32	502.59	497.08	526.57	497.94	523.19	498.77	500.54
496.33	508.07	497.09	505.02	497.95	513.37	498.78	504.67
496.34	502.30	497.11	499.78	497.96	494.93	498.79	512.35
496.35	501.84	497.14	517.94	497.97	503.57	498.80	506.11
496.36	495.29	497.15	512.30	497.99	508.04	498.82	500.16
496.38	520.86	497.16	520.58	498.00	505.21	498.83	511.27
496.41	518.29	497.17	489.49	498.01	492.82	498.84	517.06
496.42	521.31	497.18	489.75	498.02	487.82	498.87	509.30
496.43	496.98	497.19	503.12	498.03	512.44	498.88	489.84
496.44	500.89	497.20	506.72	498.05	508.74	498.89	514.59
496.45	499.59	497.21	499.79	498.06	509.66	498.90	501.79
496.46	491.30	497.24	528.12	498.07	479.66	498.91	512.57
496.49	498.47	497.25	517.70	498.08	516.57	498.93	495.80
496.50	497.95	497.26	510.98	498.09	494.19	498.94	514.62
496.51	510.99	497.27	496.93	498.12	491.51	498.95	515.25
496.53	506.67	497.28	509.42	498.13	514.74	498.97	506.21
496.54	504.36	497.29	490.58	498.15	511.77	498.98	521.38
496.57	509.96	497.31	521.30	498.16	504.56	499.00	498.71
496.58	492.64	497.32	505.35	498.18	511.96	499.01	503.52
496.59	493.45	497.33	498.88	498.21	501.61	499.02	530.58
496.60	501.57	497.34	519.97	498.22	500.79	499.03	503.58
496.61	515.88	497.35	489.41	498.23	532.99	499.04	492.49
496.62	496.26	497.36	510.22	498.24	500.46	499.05	515.71
496.63	524.62	497.38	500.02	498.26	516.12	499.06	503.34
496.64	500.11	497.41	494.68	498.27	501.50	499.07	512.06
496.65	529.38	497.42	490.62	498.28	516.10	499.08	506.25
496.66	504.79	497.44	493.92	498.29	500.50	499.09	503.85
496.67	512.99	497.45	511.28	498.31	510.92	499.10	523.16
496.68	506.17	497.47	505.73	498.32	501.35	499.11	519.06
496.70	501.66	497.49	501.32	498.33	487.95	499.13	480.52
496.71	502.47	497.52	481.89	498.34	501.19	499.15	503.10
496.72	497.36	497.55	487.83	498.35	506.10	499.16	516.79
496.73	491.69	497.56	515.77	498.36	492.63	499.18	501.38
496.74	509.00	497.57	502.80	498.37	517.77	499.21	494.16
496.78	489.65	497.58	495.26	498.39	509.80	499.24	505.63
496.79	505.81	497.60	491.65	498.40	491.44	499.26	541.13
496.80	502.95	497.61	507.66	498.41	503.34	499.27	500.66
496.81	502.89	497.62	510.61	498.43	497.48	499.28	494.34
496.82	503.30	497.66	507.66	498.46	516.46	499.30	501.95
496.83	484.67	497.67	506.20	498.47	507.04	499.34	485.01
496.84	502.18	497.69	503.20	498.48	501.82	499.36	499.89
496.85	504.04	497.71	497.89	498.49	504.27	499.37	495.60
496.87	511.78	497.73	518.08	498.51	524.75	499.38	512.75
496.90	508.42	497.74	496.37	498.52	501.40	499.39	516.26
496.91	508.44	497.75	518.73	498.53	510.40	499.40	531.22
496.93	482.38	497.76	509.71	498.54	497.18	499.42	491.48
496.94	491.91	497.78	501.16	498.56	495.48	499.43	514.56
496.95	507.93	497.79	497.51	498.58	505.52	499.44	485.39
496.96	510.78	497.80	516.29	498.59	483.61	499.45	496.50



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
499.47	506.21	500.36	500.21	501.20	496.07	502.11	518.39
499.48	499.72	500.37	511.93	501.21	500.40	502.12	508.06
499.50	515.98	500.38	501.76	501.22	516.00	502.13	516.79
499.51	517.17	500.39	509.94	501.24	511.45	502.15	520.02
499.52	512.22	500.41	518.98	501.25	511.19	502.16	510.11
499.55	521.28	500.42	503.89	501.27	491.93	502.17	509.86
499.56	509.26	500.43	493.61	501.28	488.40	502.20	501.59
499.57	499.73	500.45	502.20	501.29	499.08	502.21	519.02
499.58	516.91	500.46	511.27	501.31	511.39	502.22	507.56
499.59	511.20	500.47	500.89	501.32	503.54	502.23	509.15
499.60	511.92	500.48	502.93	501.33	536.28	502.24	501.69
499.61	487.15	500.49	488.27	501.34	509.64	502.27	520.27
499.63	510.73	500.50	513.19	501.35	488.60	502.28	512.78
499.68	516.31	500.51	497.26	501.38	521.69	502.29	505.21
499.73	506.81	500.52	506.47	501.39	505.18	502.30	493.53
499.74	494.35	500.53	504.55	501.40	510.81	502.33	513.24
499.75	489.62	500.56	503.42	501.41	510.37	502.34	515.48
499.77	511.89	500.57	503.85	501.42	499.33	502.36	507.39
499.78	512.31	500.58	491.79	501.44	513.37	502.37	517.98
499.79	499.56	500.59	516.68	501.45	500.35	502.39	510.15
499.81	503.13	500.60	507.33	501.46	513.28	502.40	508.29
499.82	502.99	500.63	513.80	501.48	515.94	502.42	513.50
499.83	506.24	500.64	500.52	501.52	492.21	502.43	512.24
499.84	504.82	500.65	493.81	501.53	518.98	502.44	532.11
499.85	515.39	500.66	542.64	501.55	488.83	502.45	502.31
499.87	500.47	500.67	514.92	501.56	517.17	502.46	502.30
499.88	505.53	500.68	511.48	501.57	507.08	502.47	509.83
499.89	511.17	500.69	510.43	501.60	503.15	502.48	516.74
499.90	505.74	500.70	493.73	501.61	494.81	502.51	486.18
499.91	536.71	500.71	493.69	501.63	499.85	502.52	516.62
499.95	500.30	500.72	497.85	501.64	511.62	502.53	528.96
499.96	501.24	500.73	503.69	501.65	495.03	502.54	506.91
499.97	500.37	500.74	507.03	501.66	506.24	502.55	514.26
499.98	507.00	500.76	500.16	501.68	511.51	502.56	498.27
499.99	512.35	500.80	508.95	501.69	519.20	502.58	545.19
500.00	508.44	500.81	502.44	501.70	521.77	502.59	506.26
500.02	510.86	500.82	503.85	501.71	515.27	502.61	518.84
500.03	511.27	500.83	506.99	501.73	503.46	502.62	511.44
500.04	507.79	500.87	513.44	501.74	521.10	502.63	514.94
500.05	513.36	500.88	501.08	501.75	514.79	502.64	511.42
500.06	502.86	500.90	509.22	501.76	489.74	502.66	501.69
500.07	505.84	500.91	509.70	501.77	505.12	502.67	504.43
500.09	505.44	500.93	504.08	501.79	507.88	502.69	509.85
500.10	508.69	500.94	503.37	501.81	510.81	502.70	522.60
500.12	503.23	500.95	503.80	501.84	510.12	502.71	513.59
500.13	511.06	500.96	516.32	501.85	512.43	502.72	506.40
500.16	515.85	500.97	512.29	501.86	503.93	502.73	497.55
500.18	524.96	500.98	503.61	501.90	519.17	502.74	505.72
500.20	513.92	500.99	524.32	501.91	501.94	502.75	493.96
500.22	499.02	501.03	503.62	501.92	529.91	502.76	500.90
500.23	528.23	501.06	505.59	501.93	525.85	502.79	522.46
500.25	514.54	501.08	501.52	501.96	503.77	502.80	522.28
500.26	507.84	501.09	508.10	501.99	524.90	502.81	500.80
500.27	503.99	501.11	502.36	502.00	524.58	502.84	510.40
500.28	501.69	501.12	524.39	502.01	513.75	502.85	506.31
500.29	500.88	501.13	511.24	502.04	497.74	502.86	496.24
500.30	524.92	501.14	500.26	502.06	496.56	502.87	498.49
500.32	507.13	501.15	505.23	502.07	509.96	502.88	516.22
500.34	510.47	501.18	499.19	502.09	498.71	502.89	505.69
500.35	505.72	501.19	509.09	502.10	506.99	502.90	521.59

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
502.92	503.83	503.79	517.64	504.55	524.74	505.48	504.01
502.93	504.64	503.81	513.40	504.56	515.37	505.50	511.26
502.94	498.23	503.82	506.49	504.57	501.35	505.55	507.32
502.95	519.98	503.83	503.90	504.58	505.67	505.56	519.51
502.96	534.63	503.84	521.90	504.59	495.49	505.59	524.60
502.97	496.45	503.85	505.71	504.60	515.29	505.60	506.97
502.99	518.03	503.86	511.32	504.61	503.72	505.61	509.49
503.01	516.02	503.87	523.73	504.62	536.02	505.63	504.59
503.02	497.76	503.89	501.56	504.63	502.92	505.64	504.90
503.03	513.72	503.91	526.30	504.64	510.65	505.65	532.13
503.04	509.17	503.93	519.58	504.65	506.73	505.68	521.71
503.05	500.28	503.94	494.99	504.69	502.45	505.69	516.08
503.06	505.40	503.95	509.95	504.71	527.92	505.71	505.83
503.09	504.67	503.96	501.59	504.72	518.07	505.72	510.97
503.10	538.27	503.98	505.16	504.73	500.87	505.73	521.35
503.11	510.50	503.99	488.97	504.77	521.62	505.74	510.57
503.13	506.62	504.00	511.54	504.78	515.26	505.75	508.81
503.14	505.47	504.01	501.29	504.82	497.26	505.79	516.90
503.15	515.04	504.02	511.34	504.85	491.64	505.80	510.14
503.16	499.87	504.03	516.19	504.87	518.36	505.81	491.95
503.18	532.85	504.04	514.07	504.88	506.74	505.82	500.32
503.19	516.35	504.06	493.53	504.89	490.24	505.83	520.46
503.20	506.64	504.07	507.77	504.90	524.37	505.84	502.61
503.24	513.31	504.08	496.62	504.91	508.98	505.85	501.66
503.25	493.02	504.11	508.51	504.92	526.65	505.86	513.75
503.26	504.16	504.12	539.14	504.93	510.75	505.89	524.50
503.27	493.85	504.13	524.20	504.94	502.00	505.90	535.33
503.28	517.91	504.16	511.88	504.95	510.52	505.91	486.63
503.29	493.55	504.17	519.14	504.96	519.15	505.92	500.90
503.31	495.51	504.18	516.57	504.97	514.04	505.93	505.30
503.32	489.97	504.19	543.34	505.00	500.96	505.95	500.14
503.38	504.20	504.20	507.01	505.01	510.49	505.96	515.40
503.39	515.03	504.21	535.53	505.02	504.75	505.97	513.03
503.40	513.41	504.22	491.32	505.04	519.83	505.98	506.16
503.41	509.48	504.23	511.65	505.07	528.62	505.99	520.14
503.42	517.28	504.24	515.90	505.08	511.05	506.00	508.90
503.43	500.88	504.26	496.25	505.11	510.86	506.04	512.07
503.45	508.21	504.27	512.68	505.12	520.21	506.05	504.57
503.46	506.08	504.28	507.80	505.13	518.50	506.06	508.03
503.49	519.44	504.29	505.03	505.16	504.14	506.09	499.80
503.51	526.30	504.30	512.16	505.17	516.87	506.11	514.37
503.52	508.55	504.32	525.70	505.22	515.55	506.12	503.39
503.53	518.76	504.34	512.95	505.23	512.12	506.13	518.30
503.56	507.97	504.35	508.09	505.24	530.54	506.15	519.36
503.57	498.15	504.37	505.09	505.25	515.43	506.17	519.17
503.58	520.50	504.39	508.64	505.27	522.75	506.18	514.96
503.59	524.43	504.40	521.84	505.28	491.51	506.19	518.58
503.61	539.01	504.41	498.66	505.31	516.97	506.21	509.26
503.63	500.14	504.42	540.07	505.32	520.54	506.23	514.88
503.64	503.89	504.43	541.34	505.35	508.79	506.24	507.55
503.65	502.45	504.45	501.59	505.36	512.07	506.25	526.40
503.66	515.36	504.46	507.27	505.37	511.21	506.26	526.98
503.67	522.52	504.47	513.07	505.39	529.54	506.27	508.29
503.68	507.90	504.48	519.25	505.40	521.43	506.28	507.45
503.72	525.36	504.49	510.47	505.41	507.30	506.29	517.12
503.73	514.12	504.50	516.28	505.42	511.92	506.30	505.18
503.74	514.74	504.51	531.37	505.43	516.54	506.31	512.02
503.75	503.16	504.52	509.95	505.44	507.46	506.32	502.82
503.77	518.67	504.53	500.93	505.45	515.83	506.35	520.91
503.78	514.31	504.54	506.18	505.46	507.48	506.36	512.75

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
506.37	514.36	507.28	519.14	508.08	500.10	508.90	506.12
506.40	510.30	507.29	510.12	508.09	535.28	508.91	514.27
506.41	508.35	507.31	505.00	508.10	505.41	508.92	519.81
506.42	497.10	507.36	544.89	508.12	513.72	508.93	528.88
506.45	513.46	507.38	514.30	508.13	516.95	508.94	524.21
506.46	501.91	507.39	521.65	508.14	505.90	508.95	513.75
506.47	506.18	507.40	510.41	508.17	504.29	508.96	503.94
506.48	498.29	507.41	507.68	508.18	510.94	508.97	521.54
506.49	507.49	507.42	507.75	508.20	509.44	508.98	498.95
506.50	515.61	507.43	523.46	508.21	510.34	508.99	522.57
506.51	508.92	507.44	496.98	508.24	513.16	509.00	524.77
506.52	514.83	507.46	508.15	508.25	509.30	509.01	516.15
506.53	523.28	507.47	506.32	508.27	539.68	509.02	523.51
506.54	506.90	507.49	513.19	508.28	533.45	509.03	513.46
506.56	535.78	507.50	498.85	508.29	537.47	509.05	519.19
506.57	504.01	507.52	506.13	508.31	520.84	509.06	513.70
506.58	508.67	507.53	507.99	508.32	507.67	509.07	507.94
506.59	510.89	507.54	510.65	508.33	509.38	509.08	514.84
506.61	501.52	507.55	508.01	508.35	509.97	509.09	533.62
506.62	510.43	507.56	502.99	508.38	521.46	509.10	521.78
506.63	487.55	507.57	518.45	508.39	513.08	509.11	513.98
506.64	531.17	507.58	511.97	508.40	502.60	509.14	515.17
506.65	506.08	507.59	504.77	508.41	516.60	509.17	522.95
506.67	522.68	507.60	530.11	508.42	501.90	509.18	511.12
506.69	519.43	507.61	541.99	508.43	503.27	509.19	509.09
506.72	512.52	507.62	519.51	508.44	509.83	509.20	520.90
506.73	516.18	507.63	534.83	508.45	512.50	509.21	513.21
506.74	515.71	507.64	522.94	508.46	517.07	509.22	542.02
506.75	515.47	507.65	505.18	508.47	520.26	509.23	503.16
506.78	522.82	507.66	509.44	508.48	515.80	509.24	510.60
506.79	504.82	507.67	515.34	508.49	518.74	509.25	513.02
506.81	524.10	507.68	534.02	508.51	518.25	509.26	518.41
506.82	521.42	507.70	524.84	508.53	539.70	509.29	513.29
506.84	535.13	507.71	534.08	508.54	521.47	509.30	528.53
506.86	514.45	507.72	536.38	508.56	518.14	509.31	524.42
506.87	523.64	507.73	517.02	508.57	518.77	509.32	524.31
506.88	517.42	507.74	526.51	508.58	550.38	509.33	508.90
506.91	500.34	507.77	504.49	508.60	521.32	509.35	507.03
506.94	503.55	507.79	521.04	508.61	502.95	509.36	517.08
506.95	513.33	507.80	528.73	508.62	519.38	509.37	504.81
506.97	506.38	507.82	511.71	508.63	512.30	509.38	509.92
506.98	494.68	507.85	525.17	508.64	503.60	509.39	510.66
507.00	521.16	507.86	506.30	508.65	523.47	509.40	511.21
507.02	500.98	507.87	507.66	508.67	515.08	509.41	527.96
507.03	520.00	507.88	504.57	508.68	520.15	509.42	524.05
507.06	502.42	507.89	516.58	508.71	507.22	509.43	521.58
507.09	517.46	507.90	507.53	508.73	521.35	509.45	516.45
507.10	531.13	507.91	516.48	508.74	518.54	509.47	523.24
507.11	503.41	507.92	520.11	508.75	511.17	509.48	539.74
507.12	519.08	507.93	517.40	508.76	515.87	509.49	524.00
507.14	502.97	507.94	508.76	508.78	506.05	509.51	526.83
507.15	519.56	507.95	537.88	508.79	497.15	509.52	522.27
507.16	511.96	507.96	520.62	508.80	517.23	509.53	530.77
507.17	522.15	507.97	504.16	508.81	518.16	509.54	518.96
507.19	517.50	507.99	500.92	508.83	518.87	509.55	517.54
507.20	512.16	508.00	518.92	508.85	518.91	509.56	507.93
507.21	503.43	508.02	524.68	508.86	518.15	509.57	511.10
507.25	516.04	508.03	501.33	508.87	518.48	509.58	516.04
507.26	511.07	508.05	522.10	508.88	512.91	509.59	519.65
507.27	512.33	508.07	506.85	508.89	503.14	509.60	523.27

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
509.63	524.06	510.40	511.26	511.18	521.96	512.13	523.46
509.64	512.46	510.41	515.07	511.19	499.92	512.15	528.91
509.66	533.98	510.42	541.29	511.21	516.49	512.17	522.15
509.67	498.20	510.44	513.19	511.22	512.23	512.20	512.90
509.69	515.32	510.45	499.94	511.23	521.46	512.21	525.60
509.71	519.00	510.46	511.51	511.24	526.24	512.22	512.83
509.73	519.85	510.48	535.23	511.26	546.94	512.23	517.26
509.75	525.79	510.49	517.25	511.27	521.84	512.24	524.42
509.76	511.34	510.50	514.76	511.30	527.91	512.25	552.21
509.77	495.73	510.51	513.75	511.31	523.73	512.26	525.44
509.78	510.55	510.52	512.73	511.33	518.49	512.27	529.63
509.79	513.48	510.53	524.31	511.34	519.46	512.30	527.58
509.80	503.40	510.54	515.76	511.35	522.39	512.31	544.99
509.81	523.84	510.56	513.63	511.37	527.79	512.32	525.82
509.82	520.49	510.57	505.97	511.38	534.75	512.34	527.97
509.83	503.09	510.58	527.53	511.41	519.22	512.35	515.85
509.84	524.21	510.60	507.73	511.42	519.43	512.36	511.58
509.85	518.47	510.62	534.41	511.44	515.36	512.39	520.25
509.88	516.16	510.63	521.35	511.45	527.89	512.40	497.01
509.89	517.53	510.64	498.51	511.48	508.49	512.41	518.46
509.90	513.92	510.65	531.21	511.51	525.74	512.42	514.02
509.91	522.46	510.66	520.32	511.54	521.87	512.43	510.41
509.92	518.67	510.67	519.75	511.57	533.80	512.44	518.39
509.93	515.00	510.68	509.84	511.59	517.13	512.45	529.24
509.94	516.53	510.70	500.18	511.60	523.17	512.47	514.56
509.95	516.99	510.71	517.15	511.62	515.44	512.48	524.68
509.96	537.92	510.73	513.27	511.66	517.14	512.49	533.35
509.97	509.27	510.75	518.03	511.69	525.83	512.50	511.77
509.98	505.54	510.76	523.56	511.71	505.38	512.51	530.47
509.99	518.80	510.77	525.87	511.73	525.95	512.52	513.78
510.00	538.06	510.78	500.86	511.74	507.24	512.53	510.06
510.05	512.68	510.79	515.67	511.75	524.84	512.54	521.95
510.06	523.22	510.80	529.18	511.76	516.64	512.55	525.96
510.07	519.28	510.81	539.32	511.77	515.59	512.56	506.29
510.08	534.43	510.82	514.29	511.79	536.67	512.57	520.92
510.09	517.25	510.84	543.55	511.80	515.72	512.58	522.97
510.10	500.32	510.85	541.91	511.81	542.94	512.59	510.55
510.11	522.96	510.86	494.66	511.82	513.51	512.60	519.81
510.13	517.85	510.87	517.52	511.87	495.74	512.61	517.51
510.14	509.38	510.89	512.21	511.88	517.08	512.62	502.53
510.15	508.42	510.90	522.94	511.91	530.56	512.64	522.36
510.16	525.22	510.91	520.81	511.92	517.94	512.66	519.76
510.18	524.02	510.94	515.75	511.93	533.67	512.68	510.23
510.19	530.48	510.95	511.18	511.94	525.40	512.69	504.23
510.20	515.89	510.96	511.89	511.95	507.58	512.70	517.72
510.21	511.16	510.98	513.79	511.96	527.86	512.71	506.32
510.22	527.77	510.99	518.26	511.97	513.61	512.72	531.04
510.23	503.66	511.00	517.39	511.98	523.23	512.73	511.09
510.24	502.25	511.02	505.50	511.99	532.01	512.74	508.58
510.25	528.05	511.03	503.33	512.00	515.10	512.75	519.11
510.26	527.36	511.04	517.43	512.02	511.09	512.76	519.92
510.27	514.51	511.05	513.74	512.03	512.50	512.79	507.57
510.28	506.52	511.07	514.90	512.04	525.23	512.81	516.01
510.29	515.17	511.08	510.58	512.05	513.18	512.82	508.66
510.31	513.12	511.10	539.79	512.06	507.56	512.83	516.05
510.32	510.81	511.11	522.60	512.08	520.28	512.84	519.11
510.35	509.69	511.12	520.07	512.09	522.62	512.85	516.27
510.36	499.33	511.14	539.75	512.10	513.06	512.86	532.57
510.38	525.17	511.15	504.88	512.11	527.96	512.87	528.09
510.39	514.55	511.17	517.66	512.12	499.13	512.88	517.62

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
512.89	541.44	513.73	529.44	514.59	520.76	515.36	513.85
512.90	513.01	513.76	523.95	514.61	502.99	515.37	528.93
512.91	508.30	513.81	519.41	514.62	513.55	515.39	522.37
512.92	502.28	513.83	519.79	514.63	521.00	515.40	541.71
512.93	509.39	513.84	529.33	514.64	520.35	515.43	536.64
512.95	539.59	513.85	525.68	514.65	522.02	515.45	520.24
512.97	526.23	513.86	527.29	514.66	525.48	515.46	524.04
512.98	538.35	513.88	509.38	514.67	519.17	515.47	508.08
513.00	493.81	513.89	524.19	514.68	525.64	515.49	524.92
513.02	508.10	513.92	514.27	514.69	514.33	515.51	519.65
513.03	513.04	513.96	540.22	514.71	508.92	515.52	531.68
513.04	521.44	513.97	544.59	514.72	536.46	515.54	537.08
513.05	528.20	513.98	525.04	514.73	523.07	515.55	533.86
513.07	530.98	513.99	520.36	514.74	515.30	515.57	531.54
513.08	515.33	514.00	516.28	514.79	511.04	515.58	506.86
513.09	509.45	514.01	514.06	514.82	518.79	515.59	516.37
513.10	500.73	514.02	526.36	514.83	524.48	515.60	528.17
513.11	507.23	514.03	495.99	514.84	527.50	515.61	523.45
513.12	521.57	514.05	514.54	514.85	514.92	515.63	538.07
513.13	543.26	514.06	524.15	514.86	524.81	515.64	541.61
513.14	523.52	514.07	516.14	514.88	515.73	515.65	515.37
513.15	533.51	514.08	525.54	514.89	511.65	515.66	524.85
513.17	524.13	514.09	514.31	514.90	535.43	515.67	527.44
513.18	520.22	514.10	525.93	514.91	529.20	515.68	506.14
513.20	512.85	514.11	512.88	514.92	533.43	515.69	511.71
513.21	527.03	514.12	522.40	514.93	501.57	515.70	549.27
513.22	513.51	514.14	526.90	514.94	521.72	515.71	522.22
513.26	526.56	514.15	518.26	514.95	521.96	515.73	550.17
513.27	515.99	514.16	523.79	514.96	528.64	515.76	510.89
513.30	521.15	514.17	521.26	514.97	529.55	515.78	531.33
513.33	513.62	514.19	526.04	514.98	508.80	515.79	531.51
513.34	510.90	514.20	509.78	514.99	524.37	515.80	502.59
513.37	540.95	514.21	508.40	515.00	535.63	515.82	522.30
513.38	528.29	514.23	515.35	515.01	518.70	515.84	540.59
513.39	544.32	514.24	504.41	515.02	511.90	515.86	524.44
513.42	520.74	514.25	511.28	515.03	543.55	515.87	524.14
513.43	515.22	514.26	515.76	515.04	512.05	515.90	536.55
513.47	520.04	514.27	523.77	515.05	530.97	515.91	510.05
513.48	516.96	514.28	517.84	515.06	516.41	515.92	521.06
513.49	514.17	514.29	522.74	515.07	531.53	515.94	523.24
513.50	518.20	514.30	501.19	515.09	515.79	515.95	522.18
513.51	493.58	514.33	542.38	515.11	520.03	515.96	518.25
513.52	530.88	514.34	531.79	515.13	524.03	515.98	520.08
513.53	518.75	514.36	525.27	515.14	546.26	515.99	519.98
513.54	524.28	514.37	527.87	515.15	529.48	516.00	502.17
513.57	524.22	514.38	527.99	515.16	516.13	516.02	516.38
513.58	521.99	514.39	534.89	515.17	524.70	516.04	516.63
513.59	511.66	514.40	534.36	515.18	519.52	516.05	533.76
513.60	520.01	514.41	517.61	515.19	519.07	516.07	515.49
513.61	521.13	514.42	514.65	515.21	515.28	516.08	524.29
513.62	520.73	514.43	517.74	515.24	521.34	516.09	528.94
513.64	523.05	514.44	525.41	515.25	522.64	516.10	521.22
513.65	518.39	514.46	504.46	515.27	536.78	516.11	521.58
513.66	528.79	514.47	524.05	515.28	529.61	516.12	510.90
513.67	521.01	514.50	527.37	515.29	525.52	516.13	526.06
513.68	526.47	514.51	523.93	515.30	517.86	516.14	526.09
513.69	537.16	514.53	520.23	515.31	529.43	516.15	547.84
513.70	508.61	514.55	531.99	515.32	512.89	516.17	530.73
513.71	514.45	514.56	510.98	515.33	529.72	516.18	542.44
513.72	501.41	514.58	530.92	515.34	527.86	516.19	531.39

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
516.21	542.35	517.09	518.82	517.85	536.71	518.59	531.37
516.22	530.56	517.10	505.31	517.86	522.95	518.60	531.84
516.23	540.73	517.11	517.76	517.87	547.49	518.63	533.23
516.24	525.75	517.12	528.45	517.89	525.46	518.64	515.10
516.25	504.40	517.14	521.38	517.90	512.16	518.65	506.37
516.26	544.51	517.15	528.65	517.92	528.27	518.66	517.34
516.27	526.27	517.16	522.15	517.93	518.13	518.67	528.24
516.28	525.99	517.17	512.60	517.94	517.64	518.68	522.98
516.30	532.74	517.18	518.99	517.95	521.52	518.69	535.53
516.32	521.35	517.19	546.62	517.96	535.63	518.71	530.26
516.33	522.01	517.20	525.42	517.97	513.41	518.72	529.56
516.36	532.91	517.21	506.88	517.98	525.19	518.74	536.99
516.38	503.77	517.22	522.21	517.99	548.92	518.75	529.25
516.39	543.73	517.23	556.25	518.01	509.53	518.76	526.43
516.41	539.72	517.24	542.85	518.02	502.28	518.77	524.36
516.42	518.22	517.25	524.30	518.04	520.34	518.78	526.58
516.43	523.91	517.26	543.98	518.05	534.66	518.79	531.05
516.46	524.86	517.27	527.44	518.07	511.30	518.81	512.88
516.48	529.08	517.28	540.78	518.08	522.86	518.83	536.01
516.50	508.16	517.29	528.95	518.09	543.65	518.84	519.04
516.53	531.06	517.30	526.43	518.11	526.80	518.85	524.93
516.54	554.58	517.31	521.48	518.12	530.89	518.86	528.05
516.55	545.52	517.32	508.22	518.13	544.27	518.87	528.74
516.57	512.23	517.33	517.84	518.14	521.83	518.88	511.98
516.58	524.86	517.34	519.56	518.15	518.92	518.90	532.23
516.61	522.75	517.35	524.57	518.16	525.20	518.91	521.47
516.62	532.94	517.37	528.21	518.18	517.42	518.94	546.25
516.64	520.92	517.38	531.13	518.20	536.04	518.95	525.81
516.66	521.76	517.39	517.32	518.21	533.13	518.96	524.02
516.68	524.25	517.41	535.95	518.22	535.44	518.97	517.34
516.69	519.28	517.42	530.57	518.23	529.19	518.98	539.34
516.71	524.40	517.43	514.29	518.24	512.63	518.99	514.96
516.73	515.49	517.45	535.08	518.25	517.36	519.00	539.17
516.74	526.50	517.46	542.28	518.26	517.02	519.01	522.46
516.75	541.27	517.48	528.82	518.27	517.35	519.03	537.97
516.76	521.71	517.49	516.14	518.29	528.05	519.04	520.05
516.78	517.83	517.50	518.12	518.30	519.02	519.06	519.60
516.79	514.87	517.51	531.24	518.31	518.53	519.07	513.13
516.80	531.22	517.52	534.61	518.32	518.91	519.08	532.18
516.81	540.64	517.54	537.71	518.33	527.65	519.09	533.23
516.82	510.33	517.55	533.96	518.34	518.97	519.10	517.69
516.83	525.53	517.57	524.89	518.35	512.35	519.11	526.54
516.84	513.41	517.58	554.03	518.36	528.51	519.12	545.95
516.85	522.08	517.59	533.84	518.37	517.39	519.13	525.60
516.88	523.39	517.60	510.12	518.38	535.94	519.15	515.24
516.89	541.48	517.62	518.02	518.39	519.34	519.16	522.89
516.91	515.17	517.63	525.73	518.40	526.19	519.18	523.26
516.92	515.77	517.64	548.91	518.41	543.32	519.19	524.54
516.93	524.31	517.65	520.48	518.42	514.42	519.20	523.73
516.94	537.47	517.66	525.29	518.43	508.85	519.21	526.35
516.95	526.48	517.70	539.99	518.46	500.36	519.22	526.29
516.96	543.00	517.71	526.03	518.47	529.50	519.23	545.17
516.97	521.29	517.75	518.74	518.48	528.46	519.25	524.32
516.98	509.51	517.77	521.01	518.49	531.36	519.26	529.30
517.00	518.34	517.78	524.49	518.50	537.12	519.27	514.36
517.01	529.77	517.79	529.49	518.51	523.49	519.29	522.63
517.02	522.85	517.80	520.20	518.52	527.42	519.30	507.76
517.03	512.74	517.81	527.79	518.56	516.02	519.31	556.49
517.06	517.29	517.83	528.23	518.57	527.45	519.35	530.37
517.08	538.23	517.84	513.98	518.58	516.27	519.36	517.76

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
519.37	507.61	520.16	515.32	521.05	521.90	521.85	514.25
519.39	518.13	520.17	536.20	521.06	519.45	521.86	526.30
519.41	517.07	520.19	521.78	521.07	532.67	521.88	529.96
519.46	521.35	520.20	530.50	521.08	518.66	521.91	517.48
519.47	518.60	520.23	528.02	521.09	512.59	521.93	535.50
519.48	526.11	520.24	514.56	521.10	515.38	521.95	521.07
519.49	530.88	520.26	550.78	521.11	520.51	521.96	531.71
519.50	522.45	520.27	526.87	521.12	525.33	521.97	528.78
519.51	534.78	520.29	540.33	521.13	532.43	521.98	523.68
519.52	516.22	520.30	527.00	521.14	537.02	521.99	534.61
519.53	523.18	520.31	527.37	521.15	531.27	522.00	526.07
519.54	550.40	520.32	521.69	521.16	549.06	522.01	532.35
519.55	528.57	520.34	535.94	521.17	526.22	522.02	531.01
519.56	528.15	520.36	516.97	521.18	538.25	522.03	527.58
519.57	529.69	520.37	533.95	521.19	541.95	522.06	529.16
519.58	532.05	520.38	529.48	521.21	508.90	522.10	524.94
519.59	516.49	520.41	518.94	521.22	559.25	522.11	538.94
519.60	535.74	520.43	546.38	521.23	522.20	522.12	521.16
519.61	551.28	520.44	542.51	521.24	532.46	522.14	542.64
519.62	516.46	520.45	519.45	521.26	528.64	522.15	534.83
519.63	545.80	520.47	519.79	521.27	545.06	522.16	541.02
519.64	523.22	520.48	527.99	521.28	530.44	522.17	527.36
519.65	531.17	520.49	531.30	521.30	527.87	522.18	536.23
519.66	534.71	520.50	523.46	521.31	531.79	522.19	533.92
519.68	533.26	520.51	517.34	521.32	512.10	522.20	535.34
519.69	530.48	520.53	521.89	521.33	532.81	522.21	526.21
519.70	526.80	520.54	550.88	521.34	539.56	522.23	511.57
519.72	526.26	520.55	529.67	521.35	523.29	522.24	545.21
519.73	522.88	520.56	542.90	521.36	527.73	522.25	520.75
519.74	535.90	520.60	531.13	521.37	517.42	522.26	533.61
519.75	526.73	520.63	533.21	521.38	522.32	522.27	538.96
519.77	505.03	520.66	520.89	521.40	545.62	522.28	520.33
519.78	535.51	520.67	517.79	521.42	567.24	522.30	538.47
519.79	530.00	520.68	535.90	521.43	518.45	522.31	524.20
519.80	527.17	520.70	528.56	521.44	541.95	522.32	531.06
519.81	552.94	520.72	525.19	521.46	521.96	522.33	537.70
519.82	528.80	520.74	535.65	521.47	518.01	522.34	523.69
519.83	532.20	520.75	522.31	521.49	533.50	522.35	552.83
519.84	520.41	520.76	519.04	521.50	523.63	522.36	525.20
519.85	525.98	520.77	517.79	521.51	519.40	522.37	542.58
519.86	533.55	520.78	540.85	521.52	553.05	522.38	530.05
519.88	535.61	520.80	526.16	521.53	523.09	522.39	516.85
519.89	533.96	520.81	536.45	521.55	538.53	522.40	531.88
519.90	526.00	520.82	535.81	521.56	520.52	522.41	521.28
519.92	511.79	520.84	528.54	521.58	521.26	522.42	536.32
519.94	510.86	520.85	520.86	521.60	520.50	522.43	524.78
519.96	527.31	520.86	547.89	521.62	538.65	522.44	520.25
519.98	531.68	520.87	526.01	521.63	524.15	522.45	516.51
519.99	511.50	520.89	529.83	521.65	538.65	522.47	511.39
520.02	527.34	520.90	535.33	521.66	530.17	522.48	515.37
520.03	518.22	520.91	525.09	521.67	531.70	522.49	519.98
520.04	526.74	520.92	532.77	521.70	536.84	522.50	532.91
520.05	521.12	520.93	519.10	521.71	539.70	522.51	525.33
520.06	534.59	520.94	522.29	521.72	531.90	522.52	528.37
520.07	534.48	520.95	515.32	521.73	530.36	522.53	527.35
520.08	563.20	520.97	529.03	521.75	527.62	522.54	538.36
520.11	524.16	520.99	521.74	521.78	510.68	522.55	541.32
520.13	538.20	521.01	527.69	521.80	532.04	522.56	537.31
520.14	526.76	521.02	539.52	521.82	525.19	522.60	530.66
520.15	517.63	521.04	526.39	521.83	535.15	522.64	533.77

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
522.65	528.58	523.49	554.76	524.36	537.24	525.24	535.37
522.66	521.45	523.50	541.45	524.37	532.70	525.25	542.79
522.69	537.13	523.51	528.37	524.44	538.27	525.26	518.28
522.70	517.63	523.52	551.71	524.45	546.14	525.27	539.11
522.71	529.80	523.53	519.07	524.46	528.61	525.29	528.78
522.72	523.20	523.56	526.53	524.48	514.47	525.30	518.30
522.73	549.55	523.57	543.42	524.49	548.33	525.31	530.36
522.74	551.21	523.58	533.08	524.50	544.42	525.32	530.52
522.76	547.78	523.59	533.40	524.51	539.92	525.33	563.35
522.77	544.17	523.60	525.89	524.53	528.15	525.34	521.71
522.78	532.82	523.62	546.62	524.54	533.63	525.36	547.72
522.79	530.94	523.64	520.77	524.55	538.61	525.39	538.88
522.81	528.10	523.65	522.75	524.58	503.85	525.40	538.18
522.83	530.38	523.66	530.29	524.59	544.20	525.41	535.67
522.84	538.68	523.68	510.56	524.60	501.34	525.44	520.93
522.85	531.36	523.69	537.58	524.61	536.44	525.45	542.45
522.86	526.82	523.70	532.87	524.62	529.76	525.46	548.01
522.88	533.10	523.71	538.47	524.63	521.94	525.47	537.10
522.89	523.13	523.72	527.04	524.65	530.77	525.48	545.23
522.90	521.02	523.74	539.69	524.66	525.76	525.51	530.90
522.91	529.16	523.78	536.75	524.68	512.45	525.54	547.07
522.93	524.95	523.79	527.58	524.69	515.47	525.55	565.38
522.94	524.47	523.80	527.57	524.70	518.35	525.56	533.55
522.96	535.93	523.82	525.51	524.72	526.74	525.57	530.61
522.97	526.69	523.83	559.71	524.74	526.17	525.58	530.77
522.98	540.45	523.84	531.61	524.75	536.89	525.59	549.29
522.99	525.87	523.85	541.96	524.76	523.90	525.60	550.32
523.00	532.16	523.86	534.17	524.77	533.21	525.63	538.85
523.01	534.85	523.87	527.85	524.80	558.54	525.64	529.72
523.02	524.46	523.88	523.36	524.81	524.85	525.65	552.47
523.03	513.48	523.89	538.08	524.82	540.78	525.66	533.47
523.04	519.78	523.90	533.08	524.84	531.24	525.69	536.83
523.05	527.75	523.91	520.51	524.85	524.80	525.70	541.10
523.07	529.87	523.94	521.76	524.87	532.59	525.71	515.57
523.08	565.78	523.95	525.69	524.89	522.23	525.72	530.15
523.09	534.07	523.96	511.98	524.91	538.40	525.73	527.97
523.10	516.13	523.99	518.71	524.93	529.51	525.74	554.11
523.11	529.83	524.00	528.81	524.94	532.75	525.75	551.40
523.16	540.40	524.01	538.05	524.95	535.29	525.76	520.27
523.17	535.94	524.03	514.62	524.96	530.73	525.77	518.64
523.18	538.86	524.04	537.64	524.97	517.59	525.79	534.09
523.19	532.21	524.05	522.50	524.98	532.18	525.80	534.47
523.21	566.25	524.06	530.92	525.00	526.12	525.81	543.43
523.23	526.54	524.09	526.05	525.01	556.11	525.83	536.54
523.29	523.07	524.10	529.87	525.04	540.03	525.85	522.82
523.30	509.07	524.12	529.92	525.05	539.14	525.86	526.74
523.31	538.85	524.13	522.71	525.06	535.58	525.88	538.15
523.32	544.61	524.15	527.16	525.07	531.50	525.89	552.09
523.33	541.39	524.17	527.08	525.08	535.47	525.90	536.87
523.35	519.84	524.19	551.58	525.09	527.24	525.91	533.76
523.36	516.87	524.20	527.22	525.11	511.29	525.92	536.29
523.37	537.94	524.21	528.83	525.12	521.75	525.93	528.54
523.39	541.43	524.22	524.91	525.13	520.66	525.94	532.03
523.41	535.99	524.24	544.74	525.15	528.85	525.96	539.43
523.42	536.43	524.27	531.35	525.16	554.71	525.97	533.34
523.43	535.90	524.28	529.73	525.17	543.19	525.98	530.71
523.44	536.26	524.30	531.89	525.20	513.94	525.99	520.37
523.45	537.82	524.31	541.24	525.21	532.92	526.00	533.27
523.46	525.60	524.32	537.20	525.22	527.77	526.01	543.68
523.48	533.08	524.34	515.85	525.23	538.46	526.04	528.70



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
526.06	515.04	526.84	532.52	527.53	532.82	528.38	546.46
526.08	520.62	526.85	528.13	527.54	535.41	528.39	527.31
526.09	547.67	526.86	527.47	527.55	554.36	528.40	535.33
526.10	515.06	526.87	529.12	527.56	544.56	528.41	526.65
526.12	533.08	526.88	535.75	527.57	548.41	528.42	537.92
526.14	545.07	526.89	552.73	527.58	533.73	528.43	530.73
526.15	516.96	526.90	544.64	527.59	530.80	528.44	534.36
526.16	534.05	526.91	540.54	527.60	533.18	528.48	531.87
526.17	544.58	526.92	556.76	527.62	528.24	528.49	531.22
526.20	525.49	526.93	538.03	527.64	535.09	528.50	530.65
526.21	538.01	526.94	539.64	527.65	559.59	528.52	561.02
526.22	519.86	526.95	531.16	527.66	529.65	528.53	540.91
526.24	526.97	526.96	514.54	527.67	541.78	528.54	536.88
526.27	525.73	526.97	533.82	527.68	518.95	528.55	557.26
526.29	564.41	526.99	542.31	527.69	530.36	528.56	539.25
526.31	525.07	527.00	527.86	527.71	550.64	528.61	529.00
526.32	566.51	527.02	542.64	527.72	534.97	528.62	535.62
526.33	545.74	527.03	506.09	527.73	533.17	528.63	538.48
526.34	524.33	527.04	545.75	527.74	547.29	528.64	543.27
526.35	569.13	527.05	534.37	527.75	535.68	528.65	525.17
526.38	525.61	527.07	535.69	527.76	544.65	528.66	542.72
526.39	556.26	527.08	525.80	527.77	527.66	528.67	527.67
526.40	519.02	527.09	529.84	527.78	537.09	528.68	544.08
526.41	527.47	527.10	539.49	527.80	525.66	528.69	547.09
526.42	533.16	527.12	536.64	527.82	565.61	528.72	533.78
526.43	533.39	527.13	532.10	527.85	530.81	528.74	539.69
526.44	533.43	527.14	537.80	527.89	546.50	528.75	538.32
526.45	544.73	527.15	533.69	527.90	539.46	528.76	534.49
526.46	537.86	527.16	533.85	527.92	531.07	528.77	537.39
526.47	536.82	527.17	535.52	527.93	553.03	528.79	529.08
526.48	538.79	527.18	532.86	527.95	529.79	528.80	536.00
526.50	566.95	527.19	541.14	527.96	546.67	528.84	527.39
526.51	536.46	527.20	527.25	527.97	523.93	528.86	539.39
526.52	562.61	527.21	546.17	527.99	517.30	528.88	553.19
526.53	542.82	527.22	533.97	528.00	554.35	528.89	520.77
526.54	537.64	527.23	528.32	528.01	546.61	528.90	538.20
526.55	545.31	527.24	539.10	528.04	535.46	528.91	536.18
526.56	538.52	527.27	536.20	528.05	530.99	528.93	546.87
526.57	531.20	527.28	519.24	528.06	538.77	528.94	530.97
526.58	535.57	527.29	531.30	528.07	531.81	528.95	541.85
526.61	539.66	527.30	541.86	528.08	532.98	528.96	532.45
526.62	531.84	527.31	524.36	528.10	528.64	528.97	524.20
526.63	529.74	527.32	528.08	528.11	535.88	528.98	517.51
526.64	533.58	527.34	530.38	528.12	551.54	528.99	535.04
526.65	538.16	527.36	542.30	528.14	529.11	529.00	532.74
526.66	519.93	527.37	539.72	528.15	536.85	529.01	548.08
526.68	525.43	527.38	518.37	528.16	528.23	529.02	530.11
526.69	547.58	527.39	557.68	528.17	532.61	529.03	532.74
526.71	525.18	527.40	520.94	528.18	532.83	529.06	527.99
526.72	530.98	527.41	546.81	528.19	530.76	529.07	545.39
526.73	532.96	527.42	525.05	528.20	541.32	529.08	524.69
526.74	533.01	527.43	538.95	528.21	531.47	529.09	518.47
526.76	523.91	527.45	538.42	528.22	564.47	529.10	553.53
526.77	546.10	527.46	537.01	528.25	538.31	529.12	549.61
526.78	535.87	527.47	527.05	528.26	536.95	529.13	542.59
526.79	527.71	527.48	530.15	528.30	533.95	529.14	535.15
526.80	535.35	527.49	521.74	528.33	533.42	529.15	539.67
526.81	539.73	527.50	544.06	528.35	534.68	529.17	545.42
526.82	529.84	527.51	540.55	528.36	541.69	529.18	535.48
526.83	524.78	527.52	539.73	528.37	526.28	529.19	542.03

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
529.20	530.05	529.99	512.38	530.91	537.80	531.73	547.34
529.21	539.98	530.00	534.25	530.92	531.95	531.76	541.19
529.22	559.09	530.01	554.72	530.93	524.55	531.77	541.50
529.23	531.23	530.02	532.77	530.95	514.20	531.78	542.79
529.26	539.68	530.03	541.90	530.96	554.41	531.79	548.92
529.27	552.22	530.05	546.91	530.98	562.49	531.80	534.59
529.28	543.88	530.06	531.71	531.00	541.46	531.81	537.48
529.29	531.47	530.09	526.11	531.02	536.28	531.83	534.27
529.30	529.70	530.11	545.41	531.03	549.14	531.84	529.92
529.31	543.59	530.14	548.18	531.06	539.12	531.86	552.52
529.32	545.68	530.15	549.57	531.07	524.74	531.87	528.12
529.33	535.94	530.16	572.37	531.08	538.84	531.88	532.57
529.34	547.70	530.17	522.60	531.09	540.42	531.89	532.65
529.35	537.80	530.19	536.61	531.10	529.90	531.91	560.48
529.36	533.62	530.21	537.17	531.11	545.15	531.94	528.58
529.37	532.95	530.22	532.23	531.13	537.73	531.95	526.37
529.38	540.57	530.24	536.26	531.16	527.61	531.96	536.31
529.39	541.26	530.25	543.74	531.17	533.01	531.99	530.46
529.40	533.65	530.26	554.39	531.18	534.14	532.01	539.55
529.43	539.64	530.27	538.45	531.19	528.03	532.02	522.87
529.45	547.39	530.28	536.10	531.20	525.96	532.05	532.00
529.46	549.02	530.29	547.04	531.21	526.14	532.07	537.49
529.47	534.76	530.30	529.18	531.22	536.44	532.09	530.62
529.48	558.23	530.33	523.78	531.23	549.45	532.10	544.91
529.49	537.70	530.36	530.50	531.24	536.26	532.11	549.01
529.50	537.10	530.37	537.37	531.25	529.90	532.12	546.54
529.51	540.47	530.38	539.73	531.26	537.46	532.13	546.84
529.52	538.43	530.40	538.65	531.27	547.38	532.14	548.82
529.54	527.58	530.41	544.10	531.29	578.89	532.15	529.46
529.55	534.08	530.43	536.47	531.32	556.28	532.16	526.99
529.56	528.33	530.45	525.96	531.33	545.78	532.18	537.89
529.57	523.84	530.47	549.37	531.34	542.17	532.19	546.84
529.58	530.52	530.48	530.53	531.37	539.84	532.20	524.97
529.59	534.03	530.50	529.98	531.38	552.44	532.23	539.85
529.60	532.65	530.51	546.74	531.40	524.48	532.24	548.45
529.61	525.15	530.52	541.87	531.41	532.81	532.25	539.06
529.63	532.77	530.53	536.66	531.42	533.99	532.26	538.38
529.64	557.96	530.55	565.50	531.45	523.72	532.27	539.33
529.65	536.60	530.57	539.27	531.46	523.72	532.29	545.65
529.66	560.13	530.59	537.12	531.47	521.40	532.30	528.48
529.69	540.17	530.61	545.65	531.48	533.95	532.31	528.65
529.70	545.01	530.62	527.56	531.49	529.22	532.32	525.96
529.72	520.68	530.63	546.72	531.50	544.01	532.34	539.12
529.73	532.96	530.64	574.22	531.51	563.27	532.35	536.40
529.74	531.86	530.66	541.63	531.52	534.63	532.36	535.06
529.76	529.53	530.67	537.20	531.53	537.97	532.38	552.29
529.77	538.15	530.68	526.93	531.57	531.91	532.39	543.91
529.79	537.62	530.69	542.19	531.58	561.83	532.41	538.91
529.80	548.96	530.70	532.53	531.59	530.38	532.42	543.66
529.81	534.41	530.71	537.95	531.60	530.52	532.45	547.30
529.82	541.63	530.72	535.90	531.61	536.05	532.46	540.12
529.84	527.36	530.74	519.94	531.62	553.10	532.47	537.32
529.85	539.67	530.75	536.24	531.63	539.98	532.49	523.66
529.86	541.12	530.76	535.95	531.64	543.26	532.50	542.01
529.90	535.59	530.77	541.45	531.65	538.43	532.51	538.54
529.91	552.56	530.83	547.50	531.66	537.18	532.52	544.03
529.93	531.72	530.84	522.69	531.68	526.43	532.53	527.76
529.96	539.52	530.87	543.08	531.69	549.06	532.54	523.36
529.97	540.60	530.89	538.91	531.70	576.07	532.55	536.20
529.98	529.79	530.90	542.72	531.72	540.27	532.57	543.76

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
532.60	550.88	533.53	533.42	534.36	552.64	535.15	561.66
532.63	536.00	533.55	537.17	534.37	545.33	535.16	563.53
532.64	539.73	533.57	543.80	534.38	535.33	535.18	556.02
532.65	541.97	533.58	543.48	534.40	536.27	535.19	534.37
532.68	560.01	533.59	524.37	534.41	542.81	535.20	533.85
532.69	531.15	533.60	544.78	534.47	543.91	535.21	528.74
532.71	548.02	533.61	533.26	534.48	541.68	535.22	524.96
532.72	534.68	533.62	534.59	534.49	546.28	535.23	543.63
532.73	556.60	533.63	545.40	534.50	537.52	535.25	521.98
532.74	534.99	533.64	557.33	534.51	545.28	535.26	538.76
532.78	565.29	533.65	535.43	534.52	530.95	535.27	515.51
532.82	527.83	533.66	557.86	534.53	543.62	535.28	553.20
532.84	533.54	533.67	538.17	534.54	528.31	535.29	573.31
532.86	524.01	533.68	550.51	534.55	548.79	535.30	551.09
532.87	542.47	533.69	573.93	534.56	545.33	535.31	575.83
532.88	551.26	533.70	540.17	534.57	542.34	535.32	555.20
532.89	535.69	533.71	534.12	534.58	534.43	535.33	541.40
532.90	535.80	533.72	536.88	534.59	538.78	535.34	543.79
532.91	538.25	533.74	547.66	534.60	554.85	535.35	545.23
532.94	532.12	533.75	534.67	534.63	570.65	535.37	522.82
532.98	539.64	533.76	539.14	534.64	557.45	535.39	544.53
532.99	544.72	533.80	536.75	534.65	538.87	535.40	551.39
533.00	537.52	533.81	543.75	534.66	540.51	535.42	544.64
533.01	552.90	533.82	546.59	534.68	553.39	535.44	542.88
533.03	537.55	533.85	535.84	534.69	546.65	535.45	542.02
533.05	535.06	533.86	541.26	534.70	534.84	535.47	527.82
533.06	529.84	533.87	543.53	534.72	532.46	535.50	540.37
533.07	538.03	533.88	530.88	534.73	570.44	535.51	549.00
533.08	534.60	533.89	546.14	534.75	543.95	535.52	543.76
533.10	539.78	533.91	535.01	534.77	535.83	535.55	551.35
533.11	558.25	533.92	542.83	534.78	530.49	535.59	535.45
533.13	537.37	533.94	567.56	534.79	527.61	535.60	542.49
533.14	541.21	533.96	526.89	534.81	529.02	535.61	540.57
533.18	542.27	533.97	549.81	534.82	542.42	535.66	530.02
533.19	534.42	533.98	532.38	534.83	530.75	535.71	533.89
533.21	545.47	533.99	550.39	534.84	527.77	535.72	528.03
533.22	561.55	534.01	562.04	534.87	543.52	535.73	545.74
533.23	537.64	534.02	531.55	534.88	550.84	535.75	541.48
533.25	535.56	534.03	560.09	534.89	540.90	535.76	543.87
533.27	531.77	534.04	528.94	534.91	537.41	535.77	536.44
533.29	536.46	534.05	541.28	534.92	533.32	535.80	528.60
533.30	539.09	534.06	550.73	534.93	543.27	535.81	545.46
533.31	532.99	534.07	548.81	534.94	533.17	535.82	574.79
533.32	529.36	534.09	537.60	534.96	544.39	535.84	541.05
533.33	537.90	534.10	563.27	534.97	549.29	535.85	546.71
533.35	538.38	534.12	526.11	534.98	539.16	535.88	559.03
533.37	543.56	534.13	542.04	534.99	537.51	535.90	539.49
533.39	535.16	534.15	539.93	535.00	540.43	535.91	546.98
533.40	524.94	534.17	546.50	535.02	543.28	535.93	536.40
533.41	542.72	534.24	543.90	535.03	548.08	535.94	561.55
533.42	545.62	534.25	523.63	535.04	529.57	535.96	543.23
533.43	544.38	534.26	547.37	535.05	531.97	535.97	531.19
533.44	536.64	534.27	545.67	535.06	537.56	535.99	529.21
533.45	552.05	534.28	559.96	535.07	536.66	536.01	536.20
533.47	541.02	534.29	530.27	535.08	528.49	536.04	519.85
533.48	539.09	534.30	539.83	535.09	539.02	536.05	546.84
533.49	531.04	534.31	549.77	535.10	565.01	536.06	533.98
533.50	551.82	534.32	513.72	535.11	540.26	536.07	554.13
533.51	544.04	534.33	538.39	535.13	537.56	536.08	539.37
533.52	546.60	534.34	551.26	535.14	536.63	536.09	548.34

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
536.12	543.93	536.95	551.96	537.78	553.55	538.66	528.07
536.13	531.84	536.97	546.51	537.79	541.77	538.67	547.00
536.14	530.07	536.99	540.02	537.81	553.84	538.68	548.32
536.15	539.45	537.00	553.46	537.83	549.35	538.71	559.32
536.16	544.53	537.01	539.18	537.85	532.96	538.72	542.87
536.17	541.01	537.03	521.78	537.86	539.00	538.73	550.13
536.18	548.86	537.04	524.62	537.88	518.17	538.74	541.88
536.19	541.14	537.06	543.48	537.89	564.54	538.75	538.04
536.21	541.19	537.07	552.29	537.90	540.88	538.77	533.51
536.22	544.95	537.08	532.90	537.91	548.18	538.78	530.29
536.23	537.28	537.10	525.12	537.92	550.71	538.79	548.26
536.24	533.99	537.11	541.92	537.94	547.81	538.80	543.98
536.25	547.63	537.14	538.25	537.95	539.76	538.81	542.17
536.27	539.56	537.15	530.26	537.97	528.85	538.82	537.71
536.28	562.55	537.17	534.15	537.98	549.93	538.84	548.54
536.29	555.34	537.18	527.20	537.99	537.95	538.85	547.19
536.30	542.08	537.19	549.71	538.00	541.62	538.87	549.24
536.31	535.74	537.20	533.47	538.01	541.17	538.89	543.74
536.32	561.48	537.21	540.73	538.03	548.77	538.90	562.87
536.33	532.74	537.24	525.62	538.04	524.85	538.91	548.73
536.34	529.59	537.26	546.26	538.05	540.33	538.93	536.76
536.35	552.97	537.27	552.70	538.07	544.95	538.94	550.38
536.36	514.42	537.28	557.40	538.09	538.14	538.95	546.92
536.37	560.62	537.29	536.97	538.10	552.98	538.96	562.70
536.39	528.98	537.30	545.07	538.11	547.39	538.97	559.01
536.42	537.90	537.31	537.14	538.12	545.79	538.98	530.95
536.43	551.38	537.32	545.73	538.13	541.15	538.99	537.51
536.44	544.69	537.33	541.03	538.14	535.32	539.00	543.63
536.46	532.40	537.34	557.79	538.15	558.44	539.01	540.87
536.47	539.24	537.35	543.40	538.16	543.79	539.02	562.24
536.48	547.32	537.36	544.02	538.18	545.29	539.04	541.17
536.52	542.81	537.37	542.07	538.20	534.02	539.05	555.89
536.53	525.99	537.38	554.03	538.21	543.02	539.06	538.17
536.54	539.70	537.39	529.10	538.22	532.03	539.08	564.81
536.57	535.71	537.40	536.05	538.24	538.77	539.10	553.79
536.58	555.52	537.42	541.32	538.26	542.13	539.11	539.87
536.59	549.22	537.43	542.60	538.32	551.23	539.12	552.90
536.60	553.84	537.44	550.01	538.33	551.78	539.13	542.61
536.61	544.11	537.45	538.34	538.34	549.12	539.14	542.48
536.63	535.74	537.48	538.68	538.36	539.49	539.15	539.95
536.64	537.45	537.49	559.14	538.38	536.67	539.16	539.29
536.65	554.33	537.50	548.60	538.40	540.87	539.18	564.57
536.69	572.19	537.52	558.01	538.42	540.22	539.19	540.11
536.74	537.55	537.53	548.39	538.44	546.99	539.20	553.44
536.75	541.33	537.54	536.14	538.46	545.88	539.21	547.75
536.77	537.54	537.56	547.30	538.47	555.75	539.22	553.19
536.78	535.37	537.59	545.81	538.48	540.41	539.23	568.80
536.79	562.60	537.60	542.36	538.50	536.25	539.24	553.21
536.80	532.70	537.61	566.47	538.51	546.38	539.25	544.48
536.81	547.43	537.63	537.99	538.52	541.59	539.27	551.30
536.82	564.88	537.64	536.89	538.53	544.06	539.28	527.19
536.83	530.82	537.67	536.32	538.54	529.82	539.32	544.79
536.85	542.06	537.68	548.39	538.55	548.52	539.33	546.02
536.86	569.35	537.69	538.36	538.56	524.45	539.34	544.63
536.88	565.37	537.70	539.62	538.58	545.29	539.36	548.63
536.89	515.28	537.71	548.03	538.60	532.67	539.37	554.43
536.90	544.46	537.72	540.30	538.62	534.08	539.39	542.71
536.91	534.42	537.73	539.76	538.63	544.66	539.40	542.36
536.93	534.54	537.76	537.96	538.64	544.86	539.41	536.23
536.94	540.91	537.77	548.54	538.65	534.55	539.46	545.48

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
539.48	549.05	540.38	552.59	541.25	556.91	542.09	535.81
539.49	534.67	540.39	551.58	541.26	571.89	542.11	551.44
539.50	544.27	540.40	534.79	541.27	562.30	542.12	534.90
539.51	533.19	540.42	545.14	541.28	540.04	542.14	536.17
539.53	548.09	540.43	550.07	541.30	547.04	542.18	541.78
539.54	545.91	540.44	555.58	541.31	526.13	542.19	541.21
539.55	559.20	540.45	540.46	541.34	556.68	542.20	556.11
539.59	561.72	540.46	549.01	541.35	551.74	542.21	551.58
539.62	545.00	540.47	527.82	541.37	545.41	542.25	556.15
539.63	566.08	540.48	546.90	541.39	546.89	542.28	538.04
539.64	534.06	540.51	533.71	541.40	566.23	542.29	548.61
539.65	539.70	540.52	536.18	541.43	542.79	542.31	547.97
539.67	543.08	540.53	560.40	541.44	547.60	542.32	550.90
539.68	535.28	540.54	547.48	541.45	534.96	542.36	553.86
539.69	527.10	540.55	544.05	541.46	553.20	542.37	545.40
539.71	555.36	540.57	559.34	541.47	544.98	542.38	551.00
539.72	547.14	540.59	558.28	541.48	565.10	542.40	539.35
539.75	544.53	540.60	537.04	541.49	552.05	542.41	548.23
539.77	552.50	540.63	561.48	541.52	557.36	542.42	558.04
539.79	547.88	540.64	555.04	541.54	552.37	542.43	556.14
539.80	555.96	540.65	542.30	541.55	559.06	542.44	575.73
539.81	554.59	540.66	535.74	541.57	552.81	542.45	553.03
539.82	556.99	540.68	533.60	541.58	553.29	542.46	557.56
539.85	548.86	540.69	549.28	541.60	560.30	542.47	544.30
539.86	565.76	540.71	554.50	541.61	542.33	542.48	550.29
539.88	549.98	540.72	560.46	541.62	544.74	542.49	543.79
539.89	552.79	540.74	557.71	541.63	528.27	542.50	556.74
539.90	550.76	540.75	537.73	541.64	545.67	542.52	548.76
539.91	575.43	540.78	549.53	541.65	551.02	542.53	543.55
539.92	543.64	540.79	536.56	541.66	538.87	542.54	549.96
539.93	549.25	540.80	561.76	541.67	544.91	542.56	534.54
539.95	558.86	540.81	537.29	541.68	546.85	542.57	558.83
539.96	576.78	540.83	525.37	541.69	544.28	542.58	566.52
539.97	550.09	540.86	542.01	541.70	553.93	542.59	559.15
539.98	546.79	540.87	552.35	541.73	550.03	542.60	572.16
539.99	545.04	540.88	547.06	541.74	541.04	542.62	561.48
540.01	554.73	540.89	569.77	541.75	545.30	542.64	543.96
540.02	541.24	540.90	540.31	541.76	534.44	542.66	566.06
540.03	530.99	540.91	555.17	541.77	551.24	542.69	557.17
540.06	527.59	540.92	539.59	541.78	552.93	542.70	549.05
540.08	532.49	540.93	546.97	541.79	545.00	542.71	555.61
540.09	555.69	540.94	528.26	541.80	531.18	542.72	563.27
540.11	578.16	540.95	548.64	541.82	535.23	542.73	547.30
540.12	547.90	540.98	555.72	541.83	543.88	542.74	568.13
540.13	561.03	541.00	538.52	541.84	554.87	542.75	550.35
540.16	547.15	541.02	522.48	541.85	550.75	542.77	539.82
540.17	543.16	541.03	552.97	541.86	545.18	542.78	555.21
540.19	543.31	541.05	551.01	541.87	557.92	542.82	549.62
540.20	547.87	541.06	545.22	541.92	540.72	542.83	549.31
540.21	548.58	541.07	541.10	541.93	563.03	542.85	551.04
540.22	550.35	541.09	544.84	541.94	552.17	542.86	543.34
540.23	537.88	541.11	545.02	541.96	534.83	542.87	534.82
540.24	559.88	541.12	542.44	541.97	542.78	542.88	544.49
540.26	524.07	541.13	567.77	542.00	556.11	542.89	547.96
540.27	542.23	541.14	534.97	542.01	559.37	542.91	560.08
540.29	534.46	541.15	541.07	542.02	551.57	542.92	562.38
540.30	538.80	541.16	553.44	542.04	550.95	542.93	557.04
540.33	546.19	541.18	517.12	542.05	549.41	542.94	539.99
540.34	536.32	541.21	539.47	542.06	546.10	542.96	552.24
540.35	543.08	541.23	558.81	542.08	548.45	542.97	536.75

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
542.98	540.02	543.90	545.84	544.69	566.52	545.54	556.66
542.99	542.63	543.91	554.62	544.70	542.81	545.55	584.29
543.00	556.82	543.94	545.19	544.71	561.23	545.56	541.13
543.02	554.43	543.95	546.82	544.73	557.22	545.59	549.32
543.03	551.87	543.96	548.65	544.74	538.97	545.60	551.59
543.06	561.20	543.98	559.87	544.76	569.83	545.62	540.30
543.09	564.27	543.99	534.32	544.77	546.76	545.63	547.53
543.11	551.58	544.01	567.89	544.78	543.08	545.64	560.79
543.13	544.85	544.02	542.47	544.80	546.30	545.66	538.14
543.14	556.73	544.05	553.27	544.81	541.82	545.67	560.81
543.15	535.53	544.08	530.02	544.83	558.07	545.68	555.89
543.18	554.11	544.09	545.30	544.84	582.66	545.69	546.14
543.19	551.00	544.10	549.34	544.85	535.39	545.70	567.33
543.20	572.76	544.11	549.00	544.86	574.28	545.71	565.15
543.23	555.25	544.12	547.85	544.87	549.15	545.72	550.60
543.24	555.40	544.14	547.89	544.88	550.52	545.73	562.29
543.25	547.03	544.15	550.66	544.90	569.69	545.74	567.20
543.29	549.45	544.16	575.97	544.94	547.55	545.76	546.90
543.31	551.32	544.17	554.34	544.95	563.75	545.77	551.63
543.32	559.21	544.18	550.00	544.98	552.55	545.78	550.11
543.34	531.91	544.19	554.71	545.01	558.31	545.79	561.34
543.35	555.75	544.20	559.01	545.02	553.81	545.81	548.57
543.37	546.80	544.21	556.03	545.04	553.62	545.82	542.72
543.40	526.31	544.22	565.07	545.05	550.35	545.84	556.67
543.42	528.04	544.23	540.39	545.06	537.94	545.85	556.33
543.43	551.19	544.24	561.39	545.07	548.40	545.86	548.05
543.44	529.10	544.25	559.74	545.08	566.98	545.87	557.08
543.46	555.24	544.27	559.67	545.10	550.73	545.88	561.32
543.47	558.18	544.30	538.64	545.11	550.56	545.89	555.22
543.48	547.41	544.31	549.25	545.12	544.28	545.94	554.18
543.49	582.16	544.32	541.28	545.14	553.46	545.96	544.38
543.51	551.05	544.33	536.98	545.15	552.29	545.98	546.13
543.54	551.58	544.34	543.45	545.16	559.34	545.99	557.70
543.55	553.84	544.35	555.10	545.17	547.23	546.00	543.00
543.56	552.19	544.36	551.86	545.18	552.35	546.02	541.74
543.57	551.81	544.37	544.09	545.19	557.59	546.03	585.67
543.58	540.85	544.38	542.01	545.20	549.00	546.04	560.04
543.59	565.85	544.40	545.09	545.21	541.35	546.05	560.57
543.60	559.36	544.41	568.20	545.22	549.28	546.07	553.67
543.63	547.03	544.43	557.34	545.23	554.93	546.09	564.57
543.64	561.90	544.44	539.70	545.24	561.72	546.10	556.51
543.65	552.86	544.46	565.52	545.25	559.60	546.12	553.97
543.66	552.79	544.47	543.48	545.26	564.53	546.13	554.58
543.67	541.75	544.48	546.34	545.27	546.76	546.15	550.19
543.70	546.81	544.50	552.26	545.29	549.65	546.16	558.44
543.71	554.09	544.51	548.64	545.31	572.49	546.17	558.85
543.72	561.97	544.52	568.20	545.32	584.82	546.18	542.03
543.74	550.13	544.54	536.03	545.33	549.19	546.19	560.38
543.75	544.44	544.55	542.31	545.36	550.43	546.20	548.37
543.76	551.54	544.56	566.29	545.37	554.24	546.22	555.54
543.77	554.73	544.57	548.99	545.39	565.19	546.24	577.09
543.79	544.11	544.58	559.31	545.40	552.66	546.25	554.08
543.81	556.96	544.59	548.20	545.41	555.60	546.27	526.13
543.82	544.81	544.61	554.72	545.42	542.99	546.28	551.69
543.84	549.41	544.62	550.51	545.44	561.81	546.29	553.71
543.85	568.04	544.63	559.78	545.45	543.07	546.30	564.54
543.86	552.53	544.64	547.56	545.47	557.06	546.31	560.52
543.87	551.70	544.65	554.62	545.48	550.09	546.34	548.85
543.88	557.91	544.66	537.46	545.49	555.03	546.35	551.69
543.89	562.36	544.67	553.04	545.50	560.52	546.36	552.70

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
546.37	555.41	547.31	558.09	548.22	551.34	549.10	548.71
546.41	551.87	547.32	546.43	548.24	550.67	549.12	557.64
546.43	560.23	547.33	558.39	548.25	558.33	549.14	545.58
546.45	545.22	547.34	557.36	548.26	550.80	549.17	549.94
546.48	548.94	547.36	570.09	548.27	555.22	549.18	570.03
546.50	560.93	547.37	544.42	548.28	559.76	549.19	555.42
546.51	558.11	547.38	553.79	548.29	564.47	549.22	550.99
546.52	569.31	547.39	568.54	548.31	564.68	549.23	553.25
546.53	545.25	547.40	572.69	548.32	555.95	549.25	550.81
546.54	551.17	547.42	544.68	548.33	537.85	549.30	567.92
546.55	544.61	547.43	557.24	548.34	552.37	549.31	552.57
546.56	560.28	547.44	550.90	548.36	550.95	549.33	585.71
546.58	564.94	547.45	548.04	548.37	533.48	549.35	551.44
546.59	553.26	547.46	553.75	548.39	553.04	549.36	555.97
546.60	554.10	547.47	550.90	548.40	549.58	549.37	564.80
546.61	538.38	547.48	554.88	548.42	546.89	549.38	542.89
546.63	550.90	547.52	547.63	548.43	531.31	549.41	545.34
546.67	560.64	547.54	571.39	548.44	565.56	549.44	543.50
546.68	542.27	547.56	554.39	548.45	532.68	549.45	545.98
546.69	549.71	547.57	586.80	548.46	543.72	549.46	552.34
546.70	559.48	547.60	530.98	548.47	545.55	549.47	545.55
546.71	547.86	547.61	551.98	548.48	548.76	549.51	553.86
546.72	540.36	547.63	550.61	548.49	554.16	549.52	554.25
546.76	548.88	547.64	557.06	548.51	555.46	549.56	569.86
546.78	553.95	547.65	589.08	548.53	562.47	549.57	575.56
546.81	562.36	547.67	580.71	548.54	549.73	549.59	544.09
546.83	541.86	547.68	555.75	548.55	543.06	549.60	552.25
546.88	546.29	547.69	542.08	548.56	551.96	549.62	563.03
546.90	552.88	547.71	553.50	548.59	545.08	549.63	567.34
546.91	545.39	547.72	556.41	548.61	564.44	549.64	562.45
546.92	552.42	547.73	554.38	548.63	554.65	549.65	545.79
546.93	560.03	547.75	542.51	548.64	548.14	549.68	549.87
546.94	563.21	547.76	558.57	548.68	566.14	549.70	550.74
546.95	536.79	547.77	561.82	548.69	562.49	549.71	558.92
546.96	550.03	547.78	558.52	548.71	560.03	549.73	559.54
546.97	573.26	547.79	548.56	548.72	545.34	549.74	558.23
546.98	549.20	547.81	556.97	548.73	555.88	549.75	549.97
547.00	539.32	547.83	574.94	548.75	543.46	549.76	575.51
547.01	553.90	547.86	553.95	548.77	546.26	549.77	538.47
547.02	565.68	547.88	564.60	548.79	547.26	549.78	557.59
547.03	558.68	547.91	551.59	548.80	560.23	549.79	541.84
547.05	552.81	547.94	559.72	548.82	552.22	549.80	568.88
547.06	533.25	547.95	533.81	548.83	571.21	549.81	565.80
547.07	554.38	547.96	552.82	548.84	579.22	549.85	562.57
547.08	549.63	547.98	554.05	548.85	540.76	549.86	571.08
547.09	549.94	547.99	551.28	548.86	567.94	549.87	561.44
547.10	543.63	548.00	550.54	548.87	559.89	549.88	540.59
547.13	546.87	548.01	538.21	548.88	556.10	549.92	553.83
547.14	555.66	548.02	546.75	548.90	543.85	549.93	573.05
547.15	553.26	548.07	545.04	548.95	543.61	549.94	576.56
547.16	558.15	548.09	565.16	548.97	554.34	549.95	553.17
547.17	560.36	548.10	570.60	549.01	568.42	549.96	558.29
547.18	544.13	548.11	558.91	549.02	541.99	549.97	558.96
547.19	548.85	548.12	558.95	549.03	564.46	549.98	569.00
547.21	555.80	548.13	562.48	549.04	549.80	549.99	554.80
547.22	551.58	548.15	547.62	549.05	557.53	550.00	570.69
547.24	555.75	548.16	565.98	549.06	552.21	550.02	566.92
547.26	564.56	548.19	552.99	549.07	557.42	550.03	568.06
547.28	544.14	548.20	561.88	549.08	550.38	550.04	537.46
547.29	542.22	548.21	558.56	549.09	555.58	550.05	567.04

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
550.06	562.90	550.98	562.99	551.89	561.16	552.80	545.72
550.07	552.05	551.00	566.55	551.90	553.96	552.81	558.45
550.10	559.01	551.01	546.56	551.91	550.78	552.82	552.89
550.11	555.27	551.02	557.35	551.92	559.89	552.83	570.26
550.12	564.21	551.03	556.20	551.93	550.12	552.85	567.99
550.13	559.58	551.06	557.83	551.94	564.18	552.87	558.24
550.14	549.43	551.07	551.94	551.97	549.91	552.89	553.67
550.15	549.15	551.09	572.40	551.98	551.26	552.91	553.85
550.16	562.49	551.11	548.12	551.99	559.20	552.93	562.74
550.17	565.07	551.14	570.35	552.00	564.31	552.94	577.13
550.18	538.52	551.17	556.12	552.06	554.06	552.95	571.15
550.20	562.22	551.18	559.34	552.08	551.83	552.96	559.86
550.21	559.74	551.21	553.09	552.09	551.53	552.99	557.14
550.23	555.14	551.22	561.36	552.10	541.78	553.00	549.14
550.24	554.96	551.24	559.61	552.11	563.13	553.01	552.32
550.26	543.41	551.25	548.87	552.14	555.11	553.06	546.67
550.27	549.32	551.26	553.72	552.16	562.73	553.08	560.40
550.30	560.61	551.27	553.72	552.18	556.92	553.10	569.23
550.32	557.13	551.28	544.33	552.20	555.93	553.13	563.71
550.33	552.64	551.29	566.67	552.22	540.41	553.14	569.53
550.35	554.42	551.30	547.45	552.24	561.67	553.17	566.19
550.36	561.75	551.31	570.38	552.25	552.34	553.18	559.01
550.39	550.53	551.33	568.18	552.26	557.27	553.20	550.75
550.41	555.18	551.35	539.04	552.27	550.53	553.22	549.49
550.42	542.73	551.36	558.17	552.29	547.56	553.23	580.54
550.43	553.81	551.38	564.36	552.32	561.20	553.24	562.86
550.44	556.77	551.39	567.47	552.33	565.40	553.26	570.74
550.45	561.92	551.41	566.01	552.34	553.64	553.27	555.59
550.46	576.94	551.44	558.58	552.35	572.99	553.28	555.62
550.48	549.74	551.45	562.49	552.39	567.29	553.29	550.52
550.49	544.02	551.46	584.30	552.40	563.06	553.30	566.26
550.50	554.54	551.48	548.67	552.41	558.02	553.31	551.77
550.51	543.30	551.49	558.64	552.42	558.38	553.33	570.32
550.54	548.45	551.50	566.76	552.44	558.04	553.34	571.84
550.55	555.92	551.51	569.89	552.48	579.72	553.35	550.24
550.56	559.91	551.55	558.00	552.49	549.53	553.36	539.14
550.57	533.96	551.57	574.48	552.50	547.01	553.38	565.47
550.60	560.69	551.58	573.06	552.51	550.21	553.40	551.03
550.61	557.71	551.60	548.66	552.52	554.89	553.41	556.65
550.62	542.57	551.61	555.59	552.54	557.21	553.43	581.48
550.65	561.01	551.63	559.31	552.55	568.71	553.44	562.78
550.72	543.78	551.64	537.10	552.56	553.41	553.45	561.76
550.73	557.27	551.66	567.26	552.58	573.73	553.46	580.38
550.74	575.20	551.67	565.29	552.59	548.26	553.47	562.96
550.76	558.63	551.68	557.33	552.60	561.69	553.49	550.73
550.77	537.03	551.69	538.49	552.61	546.48	553.50	551.92
550.78	559.79	551.70	567.58	552.62	557.83	553.51	559.21
550.79	552.99	551.71	567.74	552.63	559.80	553.52	554.37
550.80	549.54	551.73	551.25	552.64	554.33	553.53	554.87
550.81	561.55	551.74	542.40	552.65	551.23	553.56	568.80
550.82	529.46	551.77	552.87	552.66	578.43	553.57	561.68
550.83	563.08	551.78	560.14	552.67	562.03	553.59	586.20
550.85	552.29	551.79	554.82	552.70	551.60	553.61	572.47
550.86	555.32	551.80	564.24	552.72	552.70	553.62	569.65
550.88	553.90	551.81	554.77	552.73	552.85	553.63	556.74
550.89	533.32	551.82	576.14	552.75	550.03	553.64	567.49
550.90	554.92	551.83	561.21	552.76	550.52	553.66	554.56
550.91	566.02	551.85	558.69	552.77	585.80	553.67	564.92
550.93	548.69	551.86	560.23	552.78	577.04	553.68	570.66
550.94	564.45	551.88	566.04	552.79	557.81	553.69	594.25



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
553.70	551.33	554.51	566.23	555.39	553.65	556.22	555.98
553.72	563.17	554.53	564.14	555.40	543.22	556.24	542.30
553.73	552.77	554.54	587.60	555.41	572.84	556.25	546.10
553.74	552.11	554.56	557.04	555.42	554.31	556.26	567.20
553.75	562.73	554.58	552.66	555.43	563.38	556.27	568.89
553.76	572.17	554.62	560.35	555.44	563.46	556.28	559.07
553.77	549.56	554.63	547.36	555.45	557.06	556.29	566.89
553.78	553.50	554.64	554.57	555.47	566.75	556.30	562.78
553.79	579.17	554.65	556.45	555.49	562.67	556.31	573.95
553.80	551.42	554.66	559.41	555.52	556.46	556.32	576.52
553.81	554.95	554.69	551.70	555.53	556.31	556.33	566.49
553.83	567.84	554.72	562.45	555.54	562.93	556.34	557.58
553.84	564.86	554.74	571.27	555.56	574.87	556.36	567.19
553.85	555.79	554.76	570.08	555.57	564.25	556.37	552.31
553.86	549.79	554.77	566.02	555.58	565.54	556.38	554.81
553.87	555.24	554.78	562.22	555.59	545.16	556.39	555.22
553.88	550.58	554.80	554.45	555.60	553.89	556.40	556.47
553.89	566.59	554.83	568.25	555.61	567.44	556.41	574.40
553.90	559.48	554.84	564.38	555.62	571.24	556.43	551.60
553.93	568.12	554.85	564.47	555.63	575.46	556.44	558.77
553.95	570.27	554.87	570.24	555.64	570.34	556.46	571.08
553.97	562.37	554.88	586.78	555.65	563.38	556.47	554.04
553.98	553.09	554.89	571.07	555.66	543.39	556.48	565.49
553.99	580.86	554.90	560.22	555.67	569.15	556.49	562.92
554.03	574.04	554.92	559.82	555.68	564.21	556.50	542.51
554.04	572.79	554.93	557.77	555.69	546.78	556.52	568.23
554.07	561.09	554.94	547.45	555.71	562.61	556.53	583.71
554.08	569.24	554.95	560.97	555.72	562.33	556.55	565.40
554.11	557.79	554.96	554.59	555.73	564.82	556.57	549.70
554.12	554.80	554.97	568.63	555.74	564.63	556.58	558.52
554.13	544.79	554.99	562.54	555.75	570.78	556.59	563.04
554.15	567.01	555.00	546.33	555.76	547.02	556.62	563.04
554.16	583.69	555.01	541.57	555.78	558.29	556.63	589.99
554.18	556.25	555.02	577.85	555.79	530.50	556.64	580.45
554.19	558.76	555.03	576.38	555.80	557.26	556.65	557.85
554.21	561.42	555.05	559.21	555.83	552.90	556.67	539.72
554.22	574.08	555.06	559.58	555.85	566.86	556.68	559.51
554.23	564.33	555.07	568.40	555.88	567.92	556.69	554.66
554.24	560.75	555.09	555.96	555.90	585.09	556.70	560.47
554.26	568.59	555.12	570.07	555.92	593.76	556.71	559.58
554.27	581.10	555.14	549.61	555.93	561.92	556.72	552.85
554.28	569.16	555.15	542.99	555.94	580.53	556.73	551.14
554.29	557.68	555.16	573.44	555.95	549.63	556.75	573.08
554.30	566.93	555.17	553.06	555.96	551.95	556.80	549.89
554.31	563.25	555.19	540.33	555.97	542.03	556.81	570.84
554.33	561.22	555.20	563.52	555.98	564.85	556.83	551.31
554.34	550.03	555.21	566.46	555.99	558.27	556.84	571.65
554.35	560.99	555.22	551.64	556.00	553.61	556.85	563.61
554.37	563.12	555.23	563.23	556.02	571.04	556.86	556.13
554.38	567.48	555.24	540.28	556.03	555.81	556.87	564.50
554.39	568.46	555.25	551.67	556.04	563.75	556.88	554.52
554.40	566.24	555.27	563.10	556.05	553.68	556.89	554.59
554.41	557.71	555.28	567.54	556.09	554.04	556.90	567.51
554.42	576.57	555.30	567.78	556.12	563.16	556.91	553.05
554.43	562.19	555.31	575.50	556.13	565.08	556.92	569.03
554.44	576.11	555.32	563.79	556.17	557.05	556.93	572.82
554.46	564.14	555.33	578.46	556.18	556.79	556.98	556.26
554.47	572.21	555.36	548.98	556.19	565.91	556.99	571.03
554.48	549.63	555.37	560.23	556.20	589.70	557.01	572.10
554.49	558.46	555.38	551.92	556.21	538.83	557.03	559.43

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
557.04	570.49	557.89	554.33	558.82	569.87	559.66	577.83
557.05	549.89	557.90	564.14	558.83	553.77	559.67	569.70
557.06	572.37	557.91	553.92	558.84	568.30	559.68	552.55
557.09	570.67	557.95	557.24	558.85	581.94	559.69	567.53
557.10	549.52	557.97	553.29	558.86	560.29	559.70	567.00
557.12	573.48	557.98	568.34	558.89	560.91	559.71	558.96
557.13	556.71	557.99	564.82	558.90	573.66	559.72	568.31
557.14	580.05	558.00	590.37	558.91	558.34	559.73	581.29
557.16	565.46	558.02	573.04	558.92	572.90	559.75	554.77
557.17	563.84	558.03	549.80	558.93	560.56	559.77	555.69
557.18	549.29	558.04	562.18	558.94	575.87	559.78	568.76
557.20	561.71	558.06	542.05	558.98	552.34	559.79	557.00
557.21	566.20	558.08	574.77	558.99	567.86	559.80	559.06
557.22	569.18	558.09	572.58	559.00	554.65	559.81	576.57
557.23	567.03	558.11	560.04	559.01	557.80	559.83	554.85
557.24	576.77	558.12	594.60	559.03	559.58	559.84	552.24
557.25	568.36	558.13	556.64	559.04	588.34	559.85	562.56
557.26	568.48	558.14	560.99	559.05	563.92	559.87	556.14
557.28	557.46	558.15	558.37	559.07	564.43	559.88	556.43
557.30	564.19	558.16	563.01	559.08	559.12	559.90	567.58
557.31	549.09	558.17	551.94	559.09	564.42	559.93	570.59
557.32	558.95	558.21	547.67	559.11	574.74	559.94	570.69
557.35	575.85	558.24	553.16	559.12	573.38	559.95	563.01
557.38	598.21	558.25	563.00	559.13	563.58	559.96	565.88
557.39	547.48	558.26	550.96	559.14	554.01	559.97	549.06
557.40	538.14	558.27	554.72	559.15	541.81	559.99	576.07
557.41	576.16	558.28	571.66	559.17	562.39	560.04	550.32
557.42	563.08	558.30	559.60	559.19	578.36	560.06	577.92
557.44	548.19	558.31	554.50	559.20	563.97	560.07	567.47
557.46	568.46	558.32	559.32	559.21	561.03	560.08	566.63
557.50	551.75	558.34	558.74	559.23	570.43	560.09	565.41
557.51	561.14	558.35	565.80	559.24	562.22	560.11	575.61
557.52	565.68	558.36	593.19	559.25	575.79	560.12	564.83
557.55	563.13	558.37	564.81	559.26	572.11	560.13	555.10
557.56	564.79	558.38	548.90	559.28	551.75	560.14	568.17
557.58	568.21	558.39	577.41	559.30	574.12	560.15	564.09
557.59	564.28	558.40	556.90	559.31	554.09	560.16	580.96
557.60	576.73	558.41	586.03	559.33	562.50	560.17	557.78
557.61	585.44	558.42	563.19	559.34	556.91	560.18	579.73
557.63	567.57	558.43	564.63	559.35	564.50	560.22	561.65
557.64	576.93	558.44	565.20	559.37	568.09	560.24	568.14
557.65	558.91	558.45	542.70	559.38	576.64	560.25	582.87
557.66	561.99	558.46	560.32	559.39	556.41	560.27	571.65
557.67	565.55	558.47	561.98	559.42	552.26	560.29	584.71
557.68	563.51	558.49	570.46	559.44	555.32	560.30	568.27
557.69	549.33	558.51	568.47	559.46	560.32	560.31	565.26
557.70	557.56	558.54	558.62	559.47	574.12	560.32	573.69
557.71	562.47	558.55	555.87	559.49	560.81	560.34	566.19
557.73	594.20	558.56	566.93	559.50	546.30	560.36	567.98
557.74	555.67	558.57	572.78	559.51	560.04	560.37	569.43
557.75	577.11	558.59	558.31	559.52	555.78	560.38	566.47
557.76	564.81	558.60	553.41	559.54	562.52	560.39	563.68
557.77	572.13	558.65	546.82	559.55	571.74	560.40	568.17
557.79	561.50	558.67	566.93	559.56	562.46	560.41	575.41
557.82	581.90	558.70	560.32	559.59	572.86	560.43	567.61
557.83	562.70	558.71	559.75	559.60	589.86	560.45	553.77
557.85	564.07	558.72	566.52	559.61	564.16	560.46	559.12
557.86	586.75	558.73	541.54	559.62	565.12	560.47	566.18
557.87	571.25	558.74	563.29	559.63	594.92	560.48	563.94
557.88	589.64	558.76	548.13	559.65	595.31	560.49	554.04

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
560.51	566.82	561.44	559.25	562.40	560.33	563.31	563.39
560.52	559.04	561.46	571.43	562.41	563.24	563.32	575.05
560.56	570.01	561.47	554.06	562.42	568.62	563.36	576.46
560.59	564.24	561.48	547.82	562.43	571.21	563.38	570.77
560.62	561.85	561.49	573.38	562.44	551.94	563.39	565.45
560.64	574.30	561.52	550.87	562.45	552.92	563.40	564.20
560.65	581.91	561.54	558.07	562.46	568.68	563.41	555.03
560.66	554.58	561.55	571.24	562.51	592.54	563.43	571.65
560.68	562.73	561.56	590.97	562.52	563.41	563.44	567.32
560.70	544.96	561.57	568.20	562.53	578.44	563.45	570.95
560.72	570.21	561.58	574.07	562.54	566.18	563.46	572.43
560.73	579.97	561.59	560.30	562.55	560.22	563.48	569.64
560.75	570.24	561.60	566.11	562.56	563.96	563.50	568.79
560.77	567.42	561.61	564.68	562.59	559.79	563.51	572.15
560.78	576.91	561.62	565.12	562.60	575.87	563.54	578.36
560.79	574.29	561.63	560.40	562.61	560.11	563.55	580.74
560.80	575.14	561.64	566.65	562.63	572.34	563.57	564.08
560.81	569.62	561.66	573.51	562.64	567.11	563.59	556.47
560.83	572.67	561.67	566.71	562.67	558.10	563.61	568.70
560.84	551.54	561.68	572.13	562.69	554.09	563.62	561.19
560.85	554.79	561.70	564.79	562.70	580.54	563.64	570.39
560.87	563.72	561.71	565.17	562.71	557.27	563.65	571.90
560.89	564.22	561.73	569.90	562.75	561.66	563.66	568.77
560.90	568.25	561.75	567.12	562.76	567.34	563.67	575.26
560.94	566.34	561.76	579.79	562.77	573.52	563.68	564.65
560.96	576.90	561.77	550.90	562.78	571.16	563.69	571.90
560.97	558.46	561.78	566.20	562.79	577.91	563.70	583.31
560.98	591.20	561.79	554.39	562.80	584.27	563.71	564.97
560.99	565.68	561.81	556.96	562.82	572.73	563.73	559.27
561.02	589.64	561.83	552.89	562.83	564.80	563.74	569.79
561.03	568.78	561.84	565.62	562.87	568.38	563.77	581.22
561.06	568.25	561.85	567.94	562.88	600.10	563.78	571.69
561.07	588.58	561.89	546.22	562.90	593.12	563.79	570.77
561.08	577.65	561.92	553.37	562.92	569.77	563.80	566.17
561.09	564.32	561.93	582.21	562.95	580.81	563.81	568.54
561.10	570.28	561.96	562.87	562.96	554.64	563.82	574.94
561.11	554.92	561.97	581.42	562.99	576.76	563.83	581.78
561.12	560.71	562.01	557.77	563.00	561.49	563.86	567.61
561.14	564.84	562.02	552.16	563.01	562.95	563.90	575.87
561.17	557.54	562.04	561.47	563.02	563.60	563.93	589.90
561.18	554.40	562.05	568.35	563.04	574.58	563.94	580.35
561.20	569.05	562.06	561.96	563.05	576.42	563.95	579.28
561.22	557.35	562.07	560.48	563.06	573.40	563.96	585.95
561.23	565.11	562.08	563.75	563.08	574.15	563.97	560.70
561.24	567.94	562.10	570.70	563.09	556.27	563.98	580.64
561.25	594.99	562.12	574.47	563.10	582.74	563.99	561.46
561.26	566.84	562.13	577.08	563.11	578.01	564.02	566.32
561.28	577.95	562.14	558.55	563.12	570.51	564.04	567.80
561.30	580.32	562.16	569.52	563.13	566.21	564.05	560.63
561.31	565.50	562.17	573.82	563.16	553.03	564.06	560.76
561.32	563.65	562.19	550.27	563.17	577.99	564.07	568.31
561.33	566.15	562.21	580.74	563.18	553.84	564.08	568.65
561.34	544.94	562.23	570.82	563.20	568.07	564.10	584.17
561.36	563.30	562.25	572.75	563.21	571.90	564.13	584.47
561.37	554.89	562.26	559.64	563.23	561.31	564.14	566.37
561.38	567.36	562.27	565.06	563.25	566.13	564.15	560.35
561.39	580.00	562.28	563.21	563.26	565.65	564.17	565.77
561.40	558.83	562.29	564.10	563.28	562.89	564.18	569.35
561.42	580.10	562.36	576.33	563.29	588.67	564.19	597.95
561.43	570.78	562.38	580.08	563.30	577.06	564.21	568.40

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
564.22	562.72	565.27	573.32	566.13	589.23	566.99	578.52
564.23	569.78	565.29	565.23	566.14	566.89	567.00	577.44
564.24	568.13	565.30	571.91	566.15	571.00	567.01	589.68
564.27	575.37	565.32	581.34	566.16	571.22	567.02	568.64
564.28	547.79	565.33	568.70	566.18	583.08	567.06	567.32
564.29	572.79	565.35	557.90	566.19	587.68	567.07	561.42
564.33	569.31	565.36	540.12	566.20	573.55	567.08	567.67
564.35	585.07	565.38	573.31	566.21	572.02	567.09	565.77
564.37	564.48	565.39	579.47	566.26	563.38	567.10	555.70
564.39	568.39	565.41	571.97	566.28	577.57	567.13	555.00
564.40	566.66	565.42	585.57	566.29	593.79	567.14	583.16
564.43	552.96	565.43	574.39	566.30	565.64	567.16	572.01
564.44	581.19	565.44	570.40	566.31	569.66	567.18	561.35
564.48	576.13	565.45	561.58	566.32	580.86	567.22	573.95
564.49	577.85	565.46	572.19	566.34	565.47	567.23	568.31
564.51	563.95	565.48	573.03	566.36	569.03	567.26	576.60
564.52	572.29	565.49	569.26	566.37	577.33	567.27	588.51
564.53	581.31	565.51	590.64	566.39	573.88	567.28	571.96
564.55	573.45	565.52	575.65	566.40	573.03	567.29	576.77
564.56	567.26	565.53	570.77	566.41	562.22	567.31	578.12
564.58	552.38	565.54	567.74	566.45	563.76	567.32	554.84
564.62	579.45	565.57	569.07	566.46	583.90	567.33	577.99
564.63	550.43	565.58	556.88	566.47	569.82	567.36	547.66
564.64	583.05	565.60	583.58	566.48	559.67	567.37	557.18
564.65	577.45	565.63	576.11	566.49	573.67	567.38	579.45
564.67	565.68	565.64	580.55	566.50	546.73	567.41	581.92
564.68	574.25	565.65	548.67	566.51	582.95	567.43	568.65
564.70	571.65	565.66	576.13	566.52	568.83	567.45	597.98
564.71	562.51	565.67	575.08	566.55	570.75	567.46	578.53
564.72	565.76	565.68	579.05	566.56	555.91	567.47	578.29
564.73	565.80	565.70	563.71	566.58	569.49	567.53	557.80
564.74	590.88	565.72	572.99	566.59	580.06	567.55	588.09
564.76	573.19	565.73	591.78	566.60	584.02	567.58	575.80
564.77	591.87	565.74	561.45	566.61	569.15	567.59	571.87
564.79	589.93	565.75	562.65	566.63	559.85	567.65	589.10
564.83	575.74	565.76	561.60	566.64	575.82	567.69	581.40
564.84	566.54	565.77	575.93	566.65	571.78	567.72	558.18
564.85	571.17	565.79	562.88	566.68	566.87	567.74	574.57
564.86	560.75	565.82	554.30	566.70	577.27	567.75	558.35
564.87	578.89	565.84	574.99	566.71	569.61	567.77	569.19
564.89	584.40	565.88	576.62	566.72	570.02	567.78	579.19
564.93	584.35	565.89	581.23	566.73	580.84	567.79	562.98
564.94	563.60	565.90	579.75	566.75	567.95	567.80	555.92
564.95	583.07	565.92	576.00	566.76	604.75	567.81	566.80
564.97	563.05	565.93	585.52	566.78	587.97	567.83	571.38
564.98	573.43	565.95	560.84	566.79	563.75	567.88	573.08
564.99	570.82	565.97	555.35	566.80	563.99	567.89	580.08
565.02	558.85	565.98	560.76	566.82	568.57	567.93	580.30
565.03	572.58	565.99	565.67	566.83	564.26	567.94	575.09
565.04	583.78	566.00	589.07	566.85	577.28	567.95	614.84
565.06	559.90	566.01	568.08	566.86	574.15	567.96	568.85
565.08	555.92	566.03	570.31	566.88	577.03	567.97	562.91
565.10	585.68	566.04	572.46	566.89	578.95	567.98	573.06
565.12	545.62	566.05	568.06	566.91	575.95	567.99	568.19
565.19	566.10	566.06	567.47	566.92	563.16	568.00	565.73
565.20	567.82	566.07	579.72	566.93	565.95	568.02	573.41
565.21	557.42	566.08	570.70	566.95	554.73	568.03	578.89
565.24	567.25	566.09	557.57	566.96	569.83	568.04	578.18
565.25	585.07	566.10	579.09	566.97	582.79	568.05	575.56
565.26	573.51	566.12	570.87	566.98	574.28	568.07	559.83

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
568.11	558.40	569.02	598.09	569.83	569.72	570.80	570.62
568.12	579.45	569.04	579.63	569.84	604.35	570.84	572.23
568.13	569.65	569.05	588.07	569.85	561.26	570.85	573.49
568.14	570.25	569.07	575.18	569.87	592.10	570.86	575.85
568.21	565.46	569.09	567.52	569.88	565.58	570.87	561.76
568.22	567.77	569.10	565.89	569.91	582.60	570.88	589.19
568.24	583.61	569.11	572.28	569.94	565.52	570.90	595.38
568.25	575.13	569.12	576.67	569.96	574.04	570.91	573.29
568.26	579.72	569.13	575.18	569.97	569.80	570.94	588.48
568.28	585.46	569.14	598.82	569.98	577.12	570.95	581.61
568.29	575.82	569.15	568.63	570.00	565.84	570.96	591.82
568.30	564.81	569.17	580.48	570.02	581.62	570.97	579.08
568.31	575.70	569.18	583.80	570.03	591.20	570.99	576.81
568.33	558.18	569.19	588.31	570.04	569.25	571.00	577.21
568.34	587.99	569.20	564.15	570.05	571.26	571.01	578.73
568.35	566.73	569.21	583.10	570.06	567.49	571.03	565.49
568.37	557.36	569.22	569.69	570.07	591.81	571.04	570.89
568.39	570.42	569.23	561.91	570.08	588.31	571.05	553.11
568.41	577.01	569.26	584.52	570.10	586.85	571.06	570.76
568.42	569.98	569.27	553.66	570.11	586.60	571.07	572.64
568.43	601.82	569.28	593.87	570.13	586.03	571.10	572.27
568.44	589.93	569.30	582.69	570.14	573.49	571.12	550.57
568.45	573.72	569.31	557.17	570.15	569.10	571.14	571.20
568.48	587.73	569.33	567.67	570.18	570.59	571.18	551.62
568.49	586.96	569.34	578.07	570.19	599.92	571.20	584.36
568.51	564.60	569.35	585.57	570.20	574.84	571.21	553.79
568.53	575.97	569.36	572.44	570.21	589.52	571.22	560.30
568.55	578.62	569.37	570.93	570.22	566.74	571.23	572.58
568.56	570.60	569.38	578.40	570.24	587.50	571.24	561.92
568.57	593.24	569.39	592.87	570.26	604.58	571.25	573.83
568.58	581.46	569.40	589.77	570.28	576.93	571.26	578.19
568.61	573.60	569.41	570.36	570.30	569.88	571.28	581.47
568.62	566.73	569.43	575.72	570.31	573.77	571.32	588.33
568.63	576.57	569.45	601.92	570.32	585.13	571.34	573.02
568.64	567.42	569.47	591.40	570.33	586.32	571.35	585.95
568.65	582.53	569.49	564.34	570.36	571.65	571.36	600.42
568.67	569.57	569.50	601.59	570.39	562.77	571.37	583.30
568.68	579.55	569.51	568.77	570.41	569.05	571.39	583.83
568.70	577.79	569.52	580.96	570.43	587.89	571.40	568.51
568.71	587.93	569.53	555.49	570.44	569.31	571.42	568.66
568.72	584.41	569.54	577.21	570.46	570.63	571.44	583.16
568.73	562.17	569.55	564.11	570.47	561.40	571.45	588.96
568.74	583.73	569.56	589.14	570.48	585.18	571.46	565.70
568.75	568.39	569.58	571.53	570.49	579.47	571.48	573.94
568.76	571.14	569.59	571.99	570.53	587.89	571.55	571.12
568.77	581.72	569.60	564.83	570.54	588.27	571.56	591.99
568.78	591.99	569.61	574.94	570.56	580.85	571.57	561.99
568.79	581.24	569.63	580.81	570.57	593.95	571.58	572.65
568.80	592.14	569.64	556.36	570.58	565.38	571.59	585.91
568.81	574.29	569.67	584.84	570.59	579.16	571.61	559.71
568.82	569.95	569.68	597.40	570.61	581.91	571.62	595.43
568.87	575.06	569.71	570.82	570.63	580.39	571.64	580.16
568.88	579.05	569.72	564.76	570.64	575.52	571.65	583.31
568.90	572.10	569.73	564.67	570.65	590.68	571.66	573.48
568.91	569.52	569.76	575.06	570.66	593.79	571.67	587.29
568.92	568.59	569.78	561.25	570.68	579.17	571.72	584.14
568.93	562.84	569.79	560.16	570.70	576.98	571.73	591.22
568.94	579.01	569.80	578.88	570.72	587.41	571.75	591.55
568.99	564.60	569.81	564.50	570.74	586.06	571.76	594.01
569.00	575.25	569.82	564.56	570.76	587.51	571.77	556.12

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
571.78	583.86	572.76	578.83	573.70	576.34	574.73	582.63
571.79	576.56	572.77	588.90	573.72	578.04	574.78	606.73
571.80	601.03	572.78	584.98	573.73	577.02	574.79	572.00
571.82	590.13	572.79	594.04	573.74	579.88	574.82	584.87
571.83	599.33	572.82	572.74	573.75	571.30	574.86	578.94
571.85	579.95	572.84	577.88	573.76	573.20	574.89	587.12
571.86	572.18	572.85	578.54	573.77	578.53	574.90	579.15
571.87	598.20	572.86	591.88	573.79	592.48	574.93	562.59
571.96	560.85	572.88	577.50	573.80	580.81	574.94	570.93
571.97	577.50	572.89	579.61	573.82	580.89	574.95	598.61
571.98	561.09	572.95	564.39	573.83	575.32	574.96	580.11
572.00	579.38	572.96	560.35	573.84	573.11	574.99	584.64
572.03	566.97	572.98	577.66	573.88	579.15	575.00	564.49
572.04	586.51	573.00	575.72	573.89	585.48	575.01	584.68
572.06	569.71	573.02	578.55	573.94	584.44	575.02	594.21
572.08	566.24	573.03	586.19	573.96	581.51	575.03	559.81
572.09	557.05	573.04	577.39	573.97	579.44	575.04	574.81
572.10	573.50	573.05	569.01	573.98	592.37	575.05	586.28
572.11	579.19	573.06	597.64	573.99	576.37	575.06	587.52
572.13	588.70	573.08	572.27	574.02	591.68	575.08	574.39
572.14	579.22	573.09	575.46	574.04	591.12	575.09	578.72
572.15	580.28	573.10	570.40	574.05	578.44	575.10	579.63
572.16	586.97	573.11	584.87	574.07	598.03	575.13	565.37
572.17	584.41	573.12	564.07	574.08	559.91	575.14	584.09
572.21	573.96	573.14	580.94	574.09	578.09	575.15	570.44
572.22	559.97	573.15	575.93	574.11	578.30	575.16	590.44
572.23	569.95	573.16	569.90	574.13	580.19	575.19	577.59
572.24	582.08	573.17	586.01	574.14	563.89	575.21	589.27
572.25	597.26	573.19	574.55	574.15	583.12	575.22	581.06
572.26	582.97	573.20	570.38	574.16	585.21	575.26	579.50
572.27	589.67	573.21	585.40	574.17	582.32	575.28	583.00
572.28	580.53	573.22	584.65	574.18	574.48	575.29	595.22
572.29	575.35	573.23	570.55	574.19	587.01	575.30	579.60
572.30	574.63	573.24	587.72	574.20	603.01	575.31	580.42
572.32	584.15	573.25	578.54	574.21	583.06	575.33	589.28
572.33	587.97	573.27	575.15	574.22	580.87	575.36	580.69
572.36	617.18	573.28	565.92	574.24	582.62	575.37	572.51
572.40	573.23	573.29	584.72	574.25	577.36	575.38	567.85
572.42	605.15	573.34	567.26	574.27	570.89	575.39	579.83
572.45	587.49	573.35	572.06	574.29	587.65	575.40	576.62
572.46	581.19	573.36	570.84	574.33	598.27	575.41	600.50
572.47	581.46	573.37	574.67	574.37	587.50	575.42	574.98
572.49	569.69	573.38	565.06	574.38	590.76	575.44	586.01
572.50	579.23	573.40	578.43	574.39	578.84	575.45	596.73
572.51	567.65	573.42	586.41	574.41	573.65	575.46	578.42
572.53	586.68	573.43	576.89	574.44	578.30	575.47	575.70
572.54	547.29	573.44	567.87	574.47	590.95	575.48	596.16
572.55	586.17	573.46	577.91	574.48	595.42	575.49	578.16
572.56	575.23	573.47	597.63	574.49	591.91	575.50	616.76
572.58	568.48	573.49	566.51	574.50	585.41	575.53	571.61
572.59	577.47	573.50	580.03	574.53	582.37	575.54	588.07
572.61	569.61	573.52	568.62	574.58	592.40	575.57	563.20
572.62	578.27	573.54	590.86	574.60	588.84	575.59	571.69
572.63	556.68	573.55	580.16	574.61	575.16	575.60	601.49
572.64	586.96	573.57	586.12	574.63	593.77	575.61	580.29
572.66	575.49	573.58	571.19	574.65	569.63	575.62	594.56
572.67	599.34	573.59	588.39	574.67	595.96	575.63	574.09
572.72	575.69	573.62	579.33	574.69	576.49	575.64	583.90
572.73	578.71	573.67	582.06	574.70	576.88	575.66	582.62
572.74	590.11	573.68	576.43	574.71	596.32	575.67	594.01

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
575.68	591.78	576.49	584.53	577.46	580.57	578.48	584.99
575.69	581.20	576.50	579.26	577.47	576.39	578.51	585.12
575.70	579.39	576.51	622.92	577.50	611.41	578.54	575.95
575.71	584.09	576.52	585.63	577.51	585.75	578.55	590.02
575.72	602.49	576.53	574.97	577.54	584.05	578.59	599.87
575.74	584.98	576.54	576.80	577.58	583.80	578.62	585.89
575.75	573.92	576.55	586.57	577.60	598.04	578.63	583.61
575.77	585.11	576.60	570.31	577.61	580.09	578.64	585.96
575.78	602.99	576.61	587.57	577.63	578.85	578.66	579.20
575.79	574.76	576.62	582.49	577.64	586.26	578.67	579.98
575.81	588.17	576.63	570.03	577.65	579.93	578.68	579.20
575.82	577.17	576.66	580.92	577.66	576.53	578.69	584.96
575.85	583.86	576.67	589.54	577.67	560.95	578.70	591.48
575.86	578.68	576.70	582.01	577.69	597.23	578.71	566.06
575.87	598.35	576.71	610.60	577.72	573.97	578.73	585.81
575.88	583.34	576.72	585.50	577.74	572.49	578.74	576.60
575.90	575.27	576.73	587.51	577.76	580.50	578.75	593.04
575.91	597.74	576.75	586.54	577.78	566.19	578.76	567.35
575.93	566.26	576.76	589.23	577.80	583.50	578.78	606.35
575.95	570.23	576.78	577.74	577.81	560.39	578.80	581.32
575.97	553.43	576.80	567.27	577.83	575.76	578.81	565.12
575.99	570.88	576.84	573.96	577.84	592.65	578.82	583.55
576.00	583.84	576.85	577.94	577.85	588.93	578.83	588.09
576.02	580.85	576.86	595.14	577.86	578.85	578.86	591.07
576.03	575.13	576.87	578.78	577.87	558.39	578.87	597.51
576.04	580.28	576.88	563.66	577.88	595.57	578.88	591.13
576.05	574.60	576.90	588.55	577.92	587.56	578.93	586.02
576.06	591.35	576.91	578.81	577.93	585.15	578.94	582.47
576.09	593.07	576.95	598.50	577.95	582.50	578.95	573.58
576.10	585.50	576.96	593.77	577.97	580.68	578.98	601.12
576.11	579.67	576.97	570.21	577.98	599.86	578.99	573.28
576.13	561.00	576.98	586.39	577.99	592.85	579.00	572.19
576.14	571.31	577.00	585.40	578.00	574.61	579.01	601.13
576.16	573.11	577.01	589.24	578.01	624.12	579.03	589.62
576.17	591.47	577.02	589.89	578.06	595.26	579.04	577.10
576.19	585.07	577.03	579.02	578.08	587.32	579.05	573.79
576.20	595.49	577.04	592.71	578.10	586.74	579.06	614.24
576.21	585.18	577.06	559.22	578.11	577.64	579.07	574.42
576.24	575.15	577.07	590.70	578.13	592.21	579.08	567.65
576.25	580.00	577.08	582.56	578.14	566.64	579.09	572.40
576.26	565.70	577.09	581.74	578.15	581.37	579.11	596.17
576.28	574.61	577.10	573.42	578.16	572.58	579.12	585.57
576.29	581.07	577.12	587.18	578.17	587.74	579.13	580.52
576.30	581.60	577.14	574.36	578.19	585.33	579.14	590.64
576.31	595.02	577.15	594.09	578.21	581.22	579.15	588.42
576.32	581.81	577.18	570.60	578.24	567.66	579.16	579.95
576.33	583.92	577.19	580.97	578.26	583.98	579.17	579.85
576.34	583.83	577.20	579.54	578.27	579.79	579.20	567.65
576.35	582.41	577.21	573.79	578.28	571.76	579.21	587.76
576.36	586.58	577.23	586.73	578.29	589.89	579.22	596.33
576.37	580.67	577.24	576.04	578.30	582.55	579.23	597.22
576.38	581.29	577.25	573.51	578.33	598.92	579.24	574.31
576.39	581.64	577.29	586.36	578.36	588.84	579.26	604.49
576.41	605.71	577.32	560.91	578.37	579.44	579.27	576.48
576.43	566.74	577.35	583.29	578.38	585.50	579.28	572.23
576.44	588.92	577.37	581.53	578.41	591.41	579.30	599.72
576.45	601.30	577.39	583.79	578.42	581.60	579.32	584.43
576.46	572.95	577.40	581.32	578.43	577.63	579.33	601.60
576.47	606.91	577.41	578.03	578.44	563.09	579.34	579.84
576.48	588.17	577.43	596.22	578.46	581.86	579.37	578.92

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
579.38	576.05	580.48	597.53	581.39	597.47	582.53	581.17
579.40	613.90	580.49	583.67	581.40	596.03	582.54	580.51
579.42	593.86	580.50	597.18	581.43	589.47	582.55	570.64
579.43	613.42	580.52	582.93	581.44	592.59	582.56	591.05
579.44	592.34	580.55	580.74	581.47	583.65	582.64	592.77
579.45	595.55	580.56	588.18	581.50	562.12	582.65	569.85
579.46	582.79	580.57	591.24	581.51	604.70	582.67	596.12
579.51	583.61	580.58	580.11	581.55	582.52	582.68	603.22
579.52	585.49	580.59	581.67	581.57	596.64	582.69	585.61
579.58	581.84	580.60	579.95	581.58	582.65	582.70	598.55
579.59	586.77	580.62	617.79	581.59	585.53	582.77	582.77
579.60	587.92	580.65	588.57	581.60	596.80	582.79	586.71
579.64	585.84	580.66	595.27	581.61	574.14	582.82	612.24
579.66	599.89	580.67	584.97	581.62	590.10	582.83	591.99
579.67	589.71	580.68	592.17	581.66	615.64	582.84	595.97
579.69	596.84	580.69	589.19	581.67	575.24	582.86	583.21
579.71	583.39	580.70	598.30	581.69	574.25	582.87	621.44
579.74	581.25	580.72	607.63	581.71	593.69	582.88	591.82
579.76	600.07	580.73	590.89	581.74	594.22	582.89	594.49
579.78	582.31	580.74	580.64	581.79	585.58	582.90	586.00
579.80	622.13	580.76	598.90	581.82	577.06	582.93	589.37
579.81	590.82	580.77	588.03	581.83	598.87	582.96	593.93
579.85	607.31	580.78	580.25	581.84	591.25	582.97	574.64
579.86	577.54	580.79	581.71	581.86	587.62	582.98	598.51
579.87	605.32	580.80	588.52	581.89	591.40	583.04	583.23
579.89	599.48	580.81	578.97	581.92	592.83	583.05	591.32
579.92	584.01	580.82	570.39	581.94	581.22	583.06	584.83
579.93	577.09	580.84	580.88	581.97	589.38	583.07	576.28
579.94	595.06	580.85	564.32	581.99	579.11	583.11	588.95
579.98	589.63	580.87	588.05	582.00	612.84	583.13	580.88
580.00	581.19	580.88	579.98	582.03	603.55	583.15	583.23
580.01	579.64	580.91	600.21	582.07	592.77	583.17	592.93
580.02	608.06	580.92	573.53	582.09	583.22	583.18	588.58
580.04	598.05	580.93	597.05	582.13	582.05	583.19	586.78
580.07	586.12	580.95	592.29	582.14	590.98	583.20	589.25
580.08	574.05	580.98	589.68	582.15	573.20	583.21	586.38
580.09	598.73	580.99	588.07	582.19	582.20	583.22	578.13
580.12	584.27	581.01	591.35	582.21	598.83	583.23	590.16
580.14	573.16	581.02	596.31	582.22	594.89	583.24	591.69
580.15	563.53	581.03	591.01	582.25	586.25	583.25	586.40
580.17	568.76	581.04	594.96	582.27	576.97	583.26	590.68
580.19	572.75	581.05	591.71	582.28	587.16	583.27	584.47
580.20	579.63	581.06	584.84	582.29	592.31	583.29	577.86
580.21	584.35	581.07	578.74	582.30	589.85	583.30	595.94
580.22	573.13	581.08	578.62	582.32	599.46	583.31	585.97
580.23	586.67	581.09	581.00	582.33	563.58	583.35	581.30
580.25	582.69	581.10	574.06	582.34	589.86	583.38	576.28
580.27	599.08	581.16	585.54	582.37	599.36	583.39	580.34
580.29	593.86	581.17	596.38	582.38	570.21	583.40	572.17
580.33	579.32	581.18	568.17	582.39	593.61	583.41	616.60
580.34	589.87	581.19	586.24	582.40	593.21	583.42	605.59
580.36	595.65	581.21	574.85	582.42	584.10	583.43	591.55
580.37	604.55	581.24	575.65	582.43	587.59	583.46	585.60
580.38	595.85	581.25	579.88	582.44	585.97	583.48	614.76
580.39	586.06	581.26	579.59	582.45	568.56	583.50	589.04
580.41	588.49	581.30	567.85	582.46	577.98	583.52	603.68
580.42	570.15	581.31	589.44	582.48	579.06	583.55	595.79
580.44	582.55	581.32	585.35	582.49	580.80	583.56	581.02
580.45	597.98	581.33	572.62	582.50	586.66	583.57	588.92
580.46	604.09	581.38	583.21	582.51	596.81	583.60	591.50



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
583.61	582.01	584.64	588.03	585.67	576.81	586.58	602.46
583.62	569.82	584.65	592.23	585.68	586.96	586.59	592.65
583.65	600.98	584.68	595.73	585.69	588.47	586.61	607.85
583.66	573.28	584.70	594.12	585.70	593.48	586.62	588.50
583.71	619.02	584.71	593.31	585.71	591.96	586.64	588.10
583.74	591.74	584.76	581.46	585.72	580.47	586.65	590.26
583.76	588.86	584.77	588.22	585.73	573.97	586.66	598.34
583.77	585.47	584.78	597.81	585.74	603.92	586.67	627.95
583.78	598.57	584.79	574.40	585.76	583.09	586.69	582.38
583.79	573.10	584.81	592.77	585.77	576.99	586.70	605.15
583.80	582.74	584.84	582.75	585.79	621.21	586.71	579.31
583.81	591.20	584.85	582.83	585.80	585.60	586.72	598.76
583.82	596.11	584.86	615.93	585.81	585.56	586.73	595.51
583.83	592.28	584.87	587.72	585.82	593.52	586.77	592.95
583.84	577.49	584.88	583.77	585.85	604.61	586.78	583.90
583.86	573.95	584.89	596.16	585.86	582.89	586.81	588.39
583.87	621.25	584.91	592.45	585.90	588.11	586.83	583.27
583.88	596.39	584.92	574.63	585.91	590.22	586.85	608.15
583.89	593.58	584.93	580.13	585.92	587.37	586.86	569.89
583.90	602.66	584.94	588.64	585.94	592.68	586.87	580.63
583.91	587.30	584.96	601.73	585.98	591.64	586.90	576.70
583.92	590.36	584.97	598.27	585.99	587.86	586.92	586.97
583.98	588.83	584.99	577.35	586.00	584.93	586.93	596.44
584.01	584.68	585.02	593.79	586.01	595.49	586.94	577.07
584.02	587.53	585.05	581.05	586.02	632.66	586.96	602.78
584.04	580.69	585.07	586.68	586.03	595.17	586.97	590.53
584.07	601.00	585.09	604.99	586.04	590.10	586.98	578.02
584.08	587.75	585.11	591.48	586.05	582.76	586.99	583.39
584.09	587.14	585.17	585.31	586.06	581.14	587.01	594.54
584.11	601.56	585.18	588.58	586.11	603.18	587.05	601.85
584.12	587.97	585.19	600.59	586.13	598.33	587.06	616.89
584.15	579.35	585.21	625.50	586.14	581.26	587.07	585.34
584.16	596.46	585.22	597.34	586.17	603.74	587.10	595.38
584.17	586.77	585.24	590.08	586.18	593.92	587.11	593.63
584.18	580.10	585.25	572.67	586.20	591.57	587.14	589.13
584.21	581.18	585.27	591.19	586.21	601.56	587.15	599.09
584.22	592.57	585.28	589.81	586.22	595.00	587.16	623.31
584.23	579.82	585.29	578.83	586.23	601.22	587.18	597.26
584.24	582.44	585.33	580.73	586.24	597.39	587.20	572.78
584.26	588.67	585.34	567.15	586.25	608.94	587.21	594.82
584.27	608.84	585.35	571.74	586.26	588.47	587.25	600.76
584.28	581.43	585.36	600.24	586.27	595.08	587.26	588.69
584.30	573.25	585.37	591.91	586.30	580.17	587.27	602.28
584.32	583.19	585.38	600.86	586.31	594.00	587.28	576.73
584.36	588.29	585.43	584.17	586.33	595.20	587.30	601.88
584.38	583.02	585.44	573.34	586.35	600.23	587.33	589.87
584.39	614.97	585.47	580.61	586.36	604.78	587.35	598.05
584.41	587.59	585.49	575.77	586.37	587.43	587.37	595.86
584.44	583.74	585.50	576.28	586.38	595.66	587.39	601.09
584.46	588.06	585.51	587.03	586.39	580.51	587.40	584.52
584.48	607.11	585.52	589.53	586.43	587.59	587.41	593.83
584.49	587.86	585.54	597.84	586.45	597.36	587.42	589.32
584.51	595.24	585.59	592.87	586.46	591.44	587.43	591.36
584.52	574.99	585.60	602.38	586.47	588.44	587.44	609.44
584.55	597.59	585.61	586.34	586.49	589.95	587.45	595.30
584.56	576.72	585.62	604.77	586.51	586.99	587.47	600.55
584.57	600.12	585.63	577.52	586.52	591.73	587.54	597.41
584.58	582.64	585.64	593.89	586.53	560.53	587.55	589.36
584.59	580.79	585.65	602.17	586.55	617.37	587.56	569.21
584.63	593.44	585.66	596.87	586.57	599.38	587.57	596.34

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
587.58	611.23	588.63	626.29	589.71	598.96	590.81	593.01
587.59	591.18	588.65	607.64	589.73	593.91	590.83	601.97
587.60	635.12	588.66	585.22	589.74	596.36	590.85	613.21
587.61	597.78	588.67	597.32	589.75	592.66	590.86	600.25
587.64	588.68	588.68	577.64	589.76	603.23	590.91	595.45
587.65	592.95	588.69	592.98	589.77	607.26	590.92	606.07
587.70	600.72	588.73	581.76	589.81	586.61	590.94	597.00
587.72	570.83	588.74	594.04	589.83	592.09	590.96	602.02
587.74	601.79	588.75	586.09	589.84	596.17	590.97	591.96
587.75	590.62	588.76	595.66	589.87	589.13	590.98	601.52
587.76	571.89	588.77	589.62	589.90	585.91	590.99	594.17
587.79	586.38	588.80	591.34	589.91	593.59	591.01	599.87
587.82	584.80	588.81	590.10	589.92	592.47	591.02	590.14
587.83	596.47	588.82	605.76	589.93	594.16	591.04	623.29
587.85	597.61	588.84	588.00	589.94	610.18	591.05	596.02
587.86	595.12	588.87	583.89	589.96	588.67	591.07	596.54
587.89	588.91	588.88	588.18	589.97	597.45	591.08	593.68
587.90	581.55	588.90	590.15	590.01	589.21	591.12	598.64
587.91	602.21	588.91	615.53	590.05	598.48	591.13	595.87
587.95	605.48	588.92	588.82	590.07	603.38	591.14	589.69
587.96	589.20	588.93	619.47	590.09	599.04	591.15	596.39
587.97	593.63	588.95	590.50	590.11	630.13	591.16	602.57
587.98	594.71	588.99	578.71	590.12	576.08	591.17	595.90
588.00	574.12	589.04	585.28	590.16	614.92	591.18	600.76
588.01	602.48	589.05	594.95	590.17	589.02	591.19	589.64
588.02	580.87	589.07	605.04	590.18	610.92	591.20	604.11
588.03	597.11	589.09	600.36	590.20	590.60	591.22	626.05
588.04	587.06	589.10	598.87	590.21	597.65	591.23	595.33
588.07	604.34	589.12	581.39	590.25	596.14	591.26	599.03
588.09	592.18	589.14	581.66	590.26	604.11	591.28	594.05
588.11	593.58	589.16	596.46	590.29	588.01	591.33	591.48
588.12	595.12	589.17	594.90	590.30	589.29	591.34	612.50
588.13	617.77	589.19	605.99	590.31	607.59	591.36	597.49
588.15	593.74	589.21	593.34	590.33	602.50	591.37	598.07
588.17	589.26	589.22	591.24	590.36	586.01	591.41	604.03
588.18	599.06	589.24	592.95	590.38	613.58	591.42	594.78
588.19	596.36	589.26	602.97	590.44	592.25	591.43	597.04
588.20	616.37	589.33	594.35	590.45	602.36	591.44	591.23
588.21	606.08	589.35	576.70	590.47	619.72	591.47	614.11
588.22	601.55	589.36	589.73	590.48	587.44	591.48	598.85
588.23	594.67	589.37	593.37	590.50	602.37	591.52	608.24
588.27	595.37	589.39	598.49	590.51	593.86	591.53	594.08
588.28	596.57	589.40	602.89	590.52	583.53	591.54	589.09
588.30	581.41	589.41	600.22	590.55	592.05	591.55	603.93
588.34	612.18	589.46	616.10	590.57	604.85	591.56	601.32
588.35	581.95	589.48	602.24	590.59	599.79	591.58	606.38
588.36	596.44	589.51	592.19	590.60	596.91	591.61	600.25
588.39	595.06	589.52	614.47	590.61	590.35	591.62	600.50
588.40	600.51	589.53	617.43	590.65	605.07	591.63	624.32
588.41	610.45	589.54	582.53	590.66	593.18	591.68	583.80
588.42	588.79	589.55	586.54	590.69	606.30	591.79	599.28
588.46	569.36	589.56	597.84	590.71	603.52	591.80	601.28
588.47	626.68	589.58	595.61	590.72	598.05	591.81	598.45
588.48	602.66	589.59	600.01	590.73	608.70	591.83	598.22
588.53	604.60	589.61	589.76	590.74	582.97	591.84	586.03
588.54	577.33	589.62	592.62	590.75	593.75	591.85	594.18
588.55	604.41	589.63	589.83	590.76	609.83	591.86	588.20
588.57	600.69	589.64	596.78	590.78	597.48	591.87	597.80
588.61	594.91	589.68	589.23	590.79	617.56	591.90	616.85
588.62	600.75	589.69	585.33	590.80	598.10	591.92	601.35

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
591.94	595.44	592.92	614.00	594.04	603.93	595.19	596.48
591.96	594.97	592.93	605.98	594.06	604.33	595.22	595.49
591.98	610.85	592.94	615.35	594.08	604.27	595.25	595.89
591.99	604.17	592.97	597.03	594.10	584.56	595.26	597.75
592.02	589.14	592.98	597.71	594.13	603.91	595.27	605.90
592.04	594.54	592.99	569.05	594.18	605.58	595.28	607.51
592.05	595.17	593.00	598.06	594.19	589.54	595.29	598.93
592.07	605.06	593.03	605.94	594.23	612.84	595.30	607.15
592.08	592.29	593.06	591.84	594.24	610.87	595.33	596.20
592.09	584.91	593.07	587.13	594.25	608.14	595.34	590.76
592.10	599.36	593.09	582.56	594.26	605.85	595.36	605.39
592.12	597.85	593.10	586.84	594.27	599.75	595.38	605.68
592.16	607.95	593.11	599.74	594.28	579.79	595.39	600.51
592.17	605.03	593.12	578.39	594.30	614.08	595.43	588.04
592.18	600.89	593.13	577.59	594.31	596.72	595.46	595.35
592.19	573.92	593.14	595.93	594.32	597.07	595.48	601.77
592.20	594.39	593.15	581.90	594.33	612.60	595.51	621.40
592.21	595.17	593.19	584.00	594.34	623.61	595.53	603.06
592.22	620.83	593.20	579.32	594.35	597.28	595.55	595.92
592.23	592.64	593.23	577.23	594.36	613.35	595.57	589.24
592.24	604.05	593.24	597.30	594.37	606.21	595.59	601.63
592.25	606.77	593.25	596.17	594.38	587.13	595.63	606.98
592.26	597.17	593.29	597.13	594.40	593.78	595.64	589.71
592.27	597.55	593.30	618.67	594.42	598.96	595.66	601.73
592.28	595.54	593.35	597.32	594.45	604.77	595.68	600.58
592.29	600.17	593.37	606.10	594.47	605.51	595.70	589.12
592.32	604.15	593.41	596.04	594.48	628.68	595.71	592.53
592.33	583.07	593.43	596.02	594.49	591.39	595.72	593.74
592.34	601.85	593.44	608.90	594.51	600.65	595.73	592.64
592.35	602.92	593.45	616.52	594.54	598.61	595.74	610.80
592.36	601.09	593.46	600.02	594.55	599.30	595.75	603.51
592.38	604.44	593.47	598.42	594.56	605.02	595.77	594.15
592.39	599.79	593.49	597.57	594.58	595.21	595.79	614.52
592.41	592.11	593.50	600.44	594.60	606.30	595.80	632.14
592.42	591.02	593.51	619.83	594.62	602.16	595.82	607.51
592.43	590.81	593.52	634.86	594.63	628.26	595.85	614.38
592.46	579.17	593.55	603.94	594.64	589.72	595.86	596.83
592.49	593.52	593.57	603.59	594.65	569.59	595.88	607.33
592.50	599.33	593.59	612.42	594.66	602.25	595.89	592.25
592.51	601.37	593.61	606.26	594.68	600.28	595.90	601.60
592.53	605.84	593.62	618.99	594.72	627.21	595.91	597.82
592.57	608.28	593.66	612.76	594.79	612.01	595.93	608.17
592.58	597.41	593.67	596.94	594.81	636.75	595.94	614.74
592.59	590.08	593.68	603.49	594.82	607.31	595.96	588.56
592.60	596.76	593.70	595.00	594.84	601.52	595.97	603.12
592.61	609.16	593.72	590.02	594.85	598.79	595.99	596.00
592.62	589.41	593.73	597.98	594.87	597.56	596.01	590.68
592.63	600.44	593.74	592.61	594.89	588.92	596.02	609.29
592.64	610.68	593.78	599.20	594.90	604.59	596.03	597.54
592.70	598.97	593.80	609.22	594.91	598.67	596.05	599.66
592.72	591.71	593.87	594.21	594.95	606.08	596.08	596.14
592.73	589.72	593.89	580.81	594.98	581.53	596.09	599.00
592.76	599.27	593.92	602.32	595.00	591.69	596.10	603.92
592.77	584.63	593.93	613.56	595.01	600.25	596.12	611.31
592.78	607.11	593.95	600.11	595.02	606.38	596.14	639.70
592.79	603.26	593.96	595.48	595.05	615.85	596.15	598.74
592.80	589.93	593.97	591.90	595.08	584.80	596.16	609.90
592.84	583.20	593.99	610.83	595.10	599.84	596.18	595.87
592.90	604.80	594.01	584.19	595.11	614.08	596.20	595.12
592.91	591.67	594.03	605.22	595.14	584.10	596.24	585.68

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
596.25	600.06	597.30	601.36	598.40	609.26	599.55	601.60
596.28	593.02	597.31	607.87	598.41	585.36	599.56	607.48
596.30	595.52	597.33	611.48	598.42	587.36	599.57	613.51
596.31	599.31	597.34	594.53	598.44	619.32	599.58	595.46
596.32	589.30	597.35	599.57	598.45	592.66	599.59	594.28
596.33	610.88	597.38	596.24	598.46	595.48	599.60	608.29
596.34	600.91	597.40	608.13	598.49	609.22	599.61	604.17
596.36	612.18	597.42	606.96	598.52	606.05	599.63	615.19
596.39	599.32	597.43	602.99	598.56	618.22	599.67	609.53
596.41	621.04	597.46	597.99	598.58	609.83	599.68	617.36
596.42	602.95	597.49	611.97	598.60	632.23	599.72	621.67
596.44	593.55	597.51	607.23	598.61	592.13	599.78	597.27
596.46	609.66	597.52	593.37	598.62	611.72	599.79	612.15
596.50	598.44	597.54	590.86	598.66	602.73	599.81	603.94
596.51	600.41	597.56	589.18	598.68	611.91	599.83	611.84
596.52	595.60	597.58	609.96	598.70	596.76	599.84	627.17
596.53	641.62	597.59	611.96	598.71	603.84	599.85	597.64
596.54	571.94	597.63	629.96	598.77	610.83	599.86	629.73
596.56	603.06	597.65	599.40	598.80	590.19	599.88	578.59
596.57	599.86	597.66	617.45	598.84	591.54	599.89	590.68
596.58	595.00	597.69	599.90	598.85	603.60	599.92	602.53
596.60	598.68	597.70	598.56	598.86	596.01	599.94	600.11
596.61	622.48	597.71	606.16	598.87	605.53	599.95	600.42
596.62	600.68	597.72	604.06	598.88	595.13	599.99	590.91
596.64	604.65	597.73	591.21	598.90	622.49	600.01	615.37
596.66	601.99	597.75	606.00	598.92	586.67	600.03	620.73
596.67	596.39	597.77	599.63	598.99	583.64	600.05	605.70
596.70	615.41	597.82	580.18	599.01	615.49	600.09	599.74
596.73	610.34	597.83	607.54	599.04	617.18	600.10	595.84
596.76	614.85	597.86	608.17	599.05	622.08	600.11	594.60
596.77	598.12	597.87	599.15	599.10	580.96	600.12	609.98
596.78	593.84	597.89	589.83	599.12	604.83	600.15	611.82
596.79	591.11	597.90	608.89	599.13	597.21	600.16	599.83
596.80	620.57	597.92	605.43	599.14	603.77	600.17	598.93
596.83	590.37	597.93	600.94	599.15	593.84	600.19	594.68
596.84	601.19	597.96	599.07	599.16	607.98	600.20	614.16
596.85	592.65	597.97	605.28	599.19	583.80	600.21	616.56
596.86	604.61	598.00	599.40	599.20	601.93	600.22	605.10
596.87	609.68	598.01	606.89	599.21	597.38	600.24	593.79
596.90	608.32	598.02	595.84	599.22	595.11	600.25	609.75
596.92	602.45	598.03	605.80	599.23	605.62	600.31	595.03
596.93	599.74	598.04	592.76	599.25	615.92	600.32	603.22
596.94	586.43	598.06	609.81	599.27	597.36	600.34	600.43
596.95	599.83	598.07	606.29	599.28	609.80	600.37	606.53
596.96	596.59	598.09	605.52	599.29	620.26	600.40	603.26
596.97	595.79	598.11	606.41	599.30	599.29	600.41	616.98
596.98	594.62	598.12	600.58	599.31	601.34	600.46	605.79
596.99	597.75	598.15	584.72	599.32	617.52	600.48	598.47
597.00	600.65	598.18	604.75	599.34	596.60	600.49	602.25
597.01	605.06	598.19	626.65	599.35	611.05	600.52	600.97
597.03	622.51	598.21	604.25	599.38	604.84	600.53	599.64
597.04	595.11	598.24	594.72	599.43	606.23	600.54	605.16
597.10	599.62	598.27	598.72	599.46	609.63	600.55	598.38
597.11	589.35	598.28	600.01	599.47	625.17	600.56	597.42
597.13	606.05	598.29	605.75	599.48	606.56	600.58	610.98
597.22	583.53	598.30	623.61	599.49	620.45	600.60	614.41
597.23	607.34	598.31	597.73	599.51	622.93	600.62	583.15
597.24	585.43	598.34	611.24	599.52	625.77	600.63	588.30
597.25	600.69	598.35	621.74	599.53	609.73	600.66	600.04
597.28	582.86	598.37	603.96	599.54	614.34	600.68	595.83

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
600.69	624.92	601.99	632.27	603.01	603.20	604.15	616.83
600.71	584.81	602.00	605.30	603.03	593.27	604.16	604.61
600.75	609.70	602.01	590.99	603.05	605.11	604.23	579.16
600.76	605.70	602.03	605.42	603.08	612.85	604.24	605.01
600.78	609.62	602.04	605.80	603.12	597.96	604.26	604.85
600.83	599.22	602.06	611.11	603.13	609.27	604.27	599.48
600.84	616.53	602.07	604.03	603.14	618.25	604.30	617.89
600.88	616.96	602.08	617.46	603.16	627.75	604.31	630.06
600.92	625.23	602.09	612.92	603.17	618.14	604.32	616.38
600.94	613.00	602.10	614.81	603.19	603.00	604.34	604.91
600.96	599.33	602.15	603.69	603.20	587.86	604.35	614.03
601.03	601.04	602.17	616.99	603.21	610.35	604.36	622.22
601.04	596.50	602.20	606.02	603.24	605.54	604.38	602.91
601.05	599.96	602.21	596.94	603.26	609.23	604.40	613.56
601.11	613.31	602.22	596.01	603.27	616.82	604.42	617.48
601.12	602.50	602.29	629.19	603.29	602.56	604.44	622.74
601.13	606.40	602.30	598.82	603.31	618.09	604.45	607.85
601.14	603.36	602.31	609.61	603.36	598.08	604.48	605.21
601.15	600.93	602.32	608.88	603.38	611.79	604.49	589.67
601.20	601.85	602.34	595.82	603.40	602.09	604.50	588.57
601.21	596.13	602.35	613.88	603.42	602.02	604.52	604.76
601.22	609.20	602.37	614.91	603.43	605.18	604.53	615.92
601.24	604.92	602.38	624.08	603.44	604.40	604.60	611.14
601.26	577.01	602.39	614.20	603.45	613.43	604.62	593.40
601.28	599.76	602.40	605.51	603.46	604.11	604.63	609.32
601.29	592.41	602.41	603.89	603.48	631.08	604.64	612.42
601.30	601.09	602.42	606.93	603.49	601.77	604.65	602.10
601.31	598.68	602.43	585.56	603.54	587.80	604.66	602.34
601.33	609.51	602.44	606.38	603.55	614.03	604.67	590.74
601.35	605.28	602.45	612.83	603.59	616.78	604.68	604.02
601.36	614.93	602.46	613.02	603.61	603.20	604.71	612.72
601.37	635.00	602.47	616.45	603.62	615.33	604.72	599.09
601.40	602.88	602.49	595.29	603.63	603.32	604.75	599.34
601.41	611.40	602.50	600.90	603.67	610.32	604.77	610.60
601.42	616.99	602.53	605.83	603.69	615.93	604.79	608.05
601.43	620.88	602.54	593.86	603.70	613.13	604.81	609.52
601.44	607.44	602.56	607.48	603.78	628.16	604.83	603.64
601.45	612.89	602.57	613.83	603.79	616.17	604.85	623.48
601.46	613.43	602.58	607.57	603.80	613.47	604.86	601.48
601.50	598.51	602.59	618.48	603.82	605.76	604.92	611.54
601.52	621.90	602.63	623.27	603.83	615.75	604.93	599.83
601.55	622.18	602.65	610.47	603.87	598.39	605.00	598.21
601.60	608.88	602.68	605.44	603.88	595.48	605.03	615.77
601.63	601.28	602.72	637.99	603.89	588.87	605.04	603.68
601.65	599.51	602.74	600.06	603.90	602.47	605.05	605.42
601.66	592.91	602.76	607.21	603.91	601.50	605.06	609.01
601.69	603.01	602.80	600.74	603.92	610.80	605.10	622.39
601.70	622.63	602.81	605.80	603.93	610.87	605.11	623.90
601.71	615.30	602.83	607.64	603.94	648.00	605.13	596.82
601.73	613.85	602.84	609.08	603.96	604.98	605.17	610.89
601.78	596.26	602.86	602.56	603.97	616.48	605.18	609.63
601.79	596.79	602.87	618.04	603.99	606.23	605.25	610.44
601.81	603.15	602.89	606.01	604.00	618.44	605.26	601.89
601.82	602.25	602.91	618.55	604.01	605.57	605.28	613.11
601.83	639.08	602.93	591.21	604.02	609.17	605.29	609.82
601.84	603.18	602.94	594.97	604.03	610.25	605.30	620.92
601.85	632.83	602.95	610.07	604.07	621.52	605.33	584.35
601.88	608.73	602.96	599.15	604.10	593.35	605.34	583.42
601.92	601.05	602.99	631.26	604.11	601.30	605.41	628.72
601.93	591.54	603.00	630.47	604.12	612.24	605.45	621.05

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
605.47	621.11	606.51	641.50	607.62	601.24	608.85	618.66
605.48	611.09	606.52	601.67	607.64	608.89	608.86	604.97
605.49	623.58	606.54	600.67	607.66	606.30	608.88	589.68
605.50	617.72	606.55	615.56	607.67	602.71	608.90	608.96
605.52	609.83	606.57	608.63	607.72	609.59	608.91	625.50
605.54	618.61	606.59	616.78	607.74	607.44	608.92	618.68
605.55	603.82	606.60	612.60	607.75	592.48	608.94	615.67
605.57	617.12	606.62	614.12	607.76	618.07	608.95	608.01
605.59	643.70	606.63	616.16	607.77	624.02	608.96	613.95
605.63	629.18	606.71	613.68	607.85	592.51	608.97	604.86
605.64	603.46	606.74	618.71	607.87	599.40	608.98	649.58
605.66	615.23	606.75	606.82	607.90	629.05	609.03	603.48
605.68	613.25	606.76	589.84	607.93	609.66	609.04	586.47
605.69	622.07	606.77	632.08	607.94	605.17	609.05	624.27
605.72	640.19	606.80	599.91	607.95	620.39	609.06	620.83
605.73	611.71	606.84	606.22	607.97	613.97	609.12	622.40
605.74	595.89	606.87	616.64	607.98	597.23	609.16	612.94
605.75	616.46	606.89	609.18	608.02	617.52	609.18	611.22
605.76	603.26	606.91	600.60	608.07	601.64	609.21	612.29
605.77	606.44	606.92	612.71	608.08	619.70	609.23	624.59
605.80	602.40	606.95	623.91	608.13	624.48	609.24	607.50
605.81	646.04	607.00	625.64	608.18	601.27	609.25	636.93
605.85	607.45	607.01	604.43	608.19	604.98	609.26	611.10
605.89	586.71	607.02	613.61	608.21	610.77	609.27	600.34
605.90	622.01	607.05	626.75	608.22	629.29	609.32	588.63
605.91	615.70	607.09	606.10	608.23	619.53	609.34	598.40
605.93	592.09	607.10	616.11	608.24	607.29	609.36	621.78
605.94	598.72	607.11	598.94	608.25	601.91	609.38	630.44
605.95	621.95	607.14	611.19	608.29	616.96	609.39	637.37
605.96	608.45	607.15	612.16	608.30	633.16	609.41	617.46
605.98	617.76	607.16	645.31	608.32	612.38	609.44	610.93
606.00	613.20	607.18	608.87	608.33	628.75	609.48	616.31
606.01	618.78	607.19	613.79	608.34	603.10	609.50	625.85
606.02	615.55	607.21	618.12	608.35	643.56	609.51	611.88
606.05	617.50	607.22	610.76	608.36	613.73	609.52	625.50
606.06	622.49	607.23	614.89	608.37	612.80	609.54	633.49
606.07	610.59	607.24	614.01	608.38	615.59	609.57	611.97
606.08	632.47	607.25	603.79	608.39	614.54	609.59	601.18
606.09	603.95	607.26	618.05	608.40	619.55	609.63	613.56
606.11	620.32	607.27	617.14	608.41	619.53	609.65	601.26
606.12	580.34	607.28	619.17	608.43	615.44	609.66	611.59
606.14	610.70	607.29	627.08	608.44	612.78	609.70	633.22
606.15	609.76	607.30	612.89	608.46	612.30	609.71	599.90
606.20	600.66	607.32	593.09	608.48	611.27	609.73	615.14
606.24	596.26	607.34	604.88	608.49	637.14	609.75	606.49
606.25	613.18	607.35	620.18	608.52	613.53	609.76	603.72
606.26	608.70	607.36	639.69	608.54	618.09	609.78	610.46
606.29	630.72	607.37	628.61	608.55	619.01	609.80	625.02
606.30	615.56	607.39	623.70	608.57	622.96	609.82	618.29
606.31	603.70	607.42	605.76	608.58	615.32	609.83	619.53
606.35	626.62	607.45	607.66	608.59	604.92	609.84	614.33
606.36	618.46	607.46	611.65	608.64	612.48	609.89	604.18
606.37	623.03	607.48	601.81	608.65	610.39	609.90	596.01
606.38	609.20	607.49	616.35	608.66	629.76	609.92	607.37
606.39	591.64	607.50	620.49	608.67	622.10	609.93	629.80
606.42	612.58	607.52	613.40	608.69	617.26	609.96	634.87
606.43	614.58	607.53	622.72	608.70	651.08	609.97	599.50
606.44	623.72	607.54	611.83	608.73	597.70	609.99	610.27
606.46	604.55	607.57	620.23	608.75	627.36	610.01	625.74
606.49	618.22	607.58	604.02	608.77	618.33	610.02	620.58

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
610.03	622.89	611.54	616.17	612.62	614.93	613.92	627.19
610.04	585.48	611.57	611.98	612.63	615.28	613.95	630.89
610.09	620.98	611.58	619.88	612.64	613.52	613.96	617.57
610.10	623.38	611.59	609.76	612.65	615.13	613.98	618.76
610.11	617.49	611.61	604.94	612.66	619.00	614.03	611.84
610.17	627.28	611.63	616.68	612.69	615.36	614.04	637.17
610.19	594.54	611.66	649.24	612.71	639.15	614.06	618.18
610.21	605.43	611.68	607.79	612.76	616.23	614.08	617.91
610.23	612.92	611.76	624.30	612.77	607.44	614.13	616.95
610.29	628.08	611.79	620.70	612.81	606.67	614.14	623.48
610.30	621.53	611.81	655.47	612.82	628.92	614.15	615.28
610.31	602.01	611.82	609.22	612.84	629.09	614.16	621.13
610.33	605.03	611.84	622.85	612.89	611.24	614.17	620.78
610.41	623.06	611.86	618.89	612.90	629.55	614.19	612.29
610.42	622.84	611.87	625.28	612.91	619.88	614.20	626.20
610.45	629.66	611.89	609.54	612.93	608.92	614.22	603.93
610.48	602.74	611.90	606.53	612.94	629.25	614.23	619.39
610.53	618.87	611.91	610.89	612.95	601.90	614.25	631.82
610.58	610.10	611.97	613.68	612.96	627.02	614.29	622.37
610.59	618.15	612.02	624.73	612.99	641.27	614.30	619.45
610.60	626.83	612.03	612.08	613.00	611.64	614.32	617.61
610.66	599.53	612.04	630.26	613.02	637.26	614.33	621.24
610.67	612.57	612.05	629.58	613.03	617.08	614.34	605.98
610.71	615.04	612.06	606.25	613.04	620.89	614.36	616.43
610.72	601.79	612.07	593.68	613.08	609.64	614.41	615.76
610.73	617.84	612.08	620.66	613.13	628.60	614.42	641.69
610.77	625.29	612.11	607.71	613.17	605.76	614.44	614.83
610.78	627.32	612.12	609.60	613.18	627.93	614.45	634.40
610.81	624.55	612.13	599.11	613.20	605.61	614.49	590.85
610.83	627.04	612.15	615.42	613.21	605.01	614.51	619.19
610.84	612.56	612.16	622.41	613.22	609.35	614.54	602.32
610.87	630.24	612.17	619.80	613.23	621.26	614.56	648.62
610.90	596.46	612.18	616.38	613.27	616.28	614.58	625.86
610.94	605.68	612.19	600.90	613.28	604.64	614.61	594.30
610.96	618.16	612.20	609.31	613.29	619.20	614.64	617.74
610.98	606.25	612.21	622.44	613.31	629.87	614.68	618.31
611.00	602.84	612.23	618.92	613.32	629.27	614.69	611.94
611.02	617.18	612.26	611.54	613.33	629.62	614.70	624.52
611.05	621.04	612.27	600.90	613.36	628.92	614.71	614.00
611.06	611.06	612.29	606.62	613.42	594.31	614.72	613.60
611.07	599.82	612.33	616.34	613.46	607.96	614.73	629.90
611.08	615.07	612.34	623.30	613.47	607.30	614.76	620.26
611.11	622.18	612.35	616.14	613.48	623.30	614.78	618.33
611.12	613.89	612.36	617.29	613.51	606.39	614.80	612.94
611.14	615.13	612.37	613.51	613.52	615.34	614.81	625.56
611.15	617.25	612.40	599.87	613.55	652.49	614.82	607.76
611.16	644.71	612.42	623.10	613.56	644.01	614.84	632.78
611.17	625.51	612.43	625.57	613.62	637.14	614.87	617.49
611.21	610.85	612.44	620.92	613.64	623.89	614.89	611.75
611.28	609.92	612.45	608.01	613.66	601.68	614.91	640.82
611.29	626.66	612.46	638.58	613.69	619.29	614.97	610.94
611.32	602.30	612.47	602.24	613.74	637.80	615.01	632.44
611.34	612.53	612.48	605.88	613.78	615.20	615.03	628.29
611.36	616.72	612.51	624.37	613.79	615.63	615.04	627.22
611.37	614.01	612.52	617.81	613.83	626.90	615.09	628.04
611.38	615.28	612.53	609.47	613.84	612.89	615.12	614.64
611.41	619.18	612.55	608.03	613.85	634.21	615.14	622.15
611.42	611.70	612.56	647.12	613.86	614.10	615.16	625.30
611.46	625.86	612.57	637.31	613.90	616.83	615.17	599.66
611.51	662.34	612.61	613.35	613.91	631.13	615.19	615.35

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
615.21	658.89	616.76	621.96	618.03	638.44	619.30	616.92
615.25	623.18	616.77	607.48	618.04	628.33	619.34	630.23
615.27	619.16	616.82	606.00	618.05	611.82	619.35	615.31
615.28	622.80	616.85	615.73	618.06	599.79	619.36	634.77
615.29	615.23	616.87	624.44	618.10	602.70	619.37	622.68
615.32	623.69	616.88	635.09	618.11	620.47	619.44	645.48
615.34	622.63	616.89	648.74	618.14	603.20	619.46	626.40
615.36	627.68	616.90	613.76	618.16	631.78	619.49	649.75
615.37	635.17	616.91	595.96	618.19	615.36	619.50	606.65
615.38	627.86	616.92	617.28	618.20	613.76	619.53	609.87
615.43	623.13	616.97	625.27	618.22	629.30	619.56	618.57
615.45	621.63	616.99	603.13	618.24	619.08	619.58	633.78
615.47	615.18	617.03	627.68	618.25	617.28	619.59	640.53
615.49	628.49	617.08	616.89	618.26	620.68	619.61	619.84
615.52	593.52	617.11	622.91	618.28	623.67	619.62	640.28
615.56	613.97	617.12	604.47	618.30	630.99	619.65	618.51
615.62	596.95	617.14	612.31	618.31	623.71	619.66	650.61
615.63	623.96	617.16	633.72	618.32	619.82	619.69	619.04
615.64	613.77	617.17	619.51	618.33	614.37	619.70	613.76
615.66	613.11	617.21	604.53	618.34	628.17	619.71	606.17
615.70	610.81	617.22	616.43	618.36	611.16	619.79	628.74
615.72	619.58	617.23	630.74	618.49	619.99	619.83	617.87
615.73	617.55	617.24	633.91	618.54	622.49	619.84	625.39
615.74	633.66	617.25	616.83	618.55	628.84	619.88	638.17
615.75	613.02	617.27	635.21	618.56	622.64	619.89	627.86
615.83	651.35	617.30	611.20	618.60	629.95	619.96	639.10
615.84	625.20	617.32	636.62	618.63	634.58	619.97	631.45
615.85	634.13	617.37	637.92	618.70	617.43	619.99	618.43
615.88	624.43	617.38	610.79	618.71	637.55	620.02	614.24
615.93	606.12	617.41	598.56	618.72	642.18	620.04	631.03
615.94	621.91	617.42	622.70	618.74	612.42	620.06	612.97
615.99	615.40	617.43	619.92	618.75	640.54	620.08	629.82
616.01	623.79	617.46	625.67	618.76	607.16	620.12	625.74
616.02	623.60	617.48	603.34	618.77	614.08	620.13	631.42
616.03	610.36	617.51	630.21	618.79	630.07	620.14	642.76
616.04	610.86	617.52	619.49	618.83	639.53	620.15	645.78
616.08	635.67	617.53	632.03	618.84	617.82	620.17	634.78
616.13	617.12	617.63	623.66	618.85	631.06	620.18	635.57
616.14	620.75	617.64	662.43	618.90	608.64	620.19	620.85
616.15	612.81	617.65	617.33	618.95	622.79	620.20	605.79
616.16	635.60	617.69	610.64	618.99	635.33	620.27	643.46
616.22	630.81	617.70	601.78	619.02	636.50	620.28	601.38
616.23	625.60	617.71	622.78	619.05	619.84	620.32	627.94
616.30	611.33	617.77	630.75	619.06	635.32	620.33	622.21
616.31	638.10	617.78	595.61	619.07	621.50	620.37	633.80
616.32	612.69	617.80	612.36	619.08	624.26	620.40	616.76
616.33	640.21	617.81	587.28	619.09	619.58	620.42	628.05
616.37	656.52	617.82	603.11	619.10	627.35	620.44	628.13
616.38	627.37	617.83	635.36	619.11	625.66	620.45	615.43
616.39	625.84	617.87	604.08	619.13	645.23	620.46	627.34
616.42	611.81	617.89	636.14	619.16	625.44	620.47	623.16
616.50	624.42	617.90	627.29	619.18	610.15	620.48	619.17
616.51	636.61	617.92	604.70	619.19	629.27	620.56	640.48
616.55	616.49	617.95	616.80	619.20	613.38	620.58	634.98
616.62	612.40	617.96	633.81	619.21	622.31	620.60	628.85
616.64	637.57	617.97	616.47	619.22	628.05	620.62	625.11
616.65	630.79	617.98	620.54	619.24	620.27	620.66	622.71
616.66	630.03	617.99	633.66	619.26	617.47	620.68	603.28
616.68	621.75	618.00	620.62	619.27	642.98	620.70	641.22
616.74	619.34	618.02	619.89	619.29	615.49	620.71	623.42



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
620.73	610.98	622.07	621.21	623.41	661.18	624.87	623.70
620.76	600.73	622.08	627.93	623.43	622.06	624.89	603.26
620.77	624.82	622.10	620.77	623.46	629.97	624.90	619.42
620.79	620.50	622.11	631.93	623.50	626.07	624.95	630.84
620.80	613.63	622.12	607.56	623.51	631.78	624.98	620.96
620.81	616.39	622.13	613.53	623.54	629.02	625.05	642.58
620.85	621.27	622.16	641.27	623.55	647.71	625.06	627.85
620.88	618.80	622.19	633.31	623.56	606.40	625.07	622.71
620.92	623.69	622.22	629.73	623.60	615.56	625.09	634.62
620.94	618.72	622.26	619.42	623.62	621.76	625.13	606.72
620.95	625.79	622.32	620.53	623.65	631.10	625.15	618.62
620.99	631.93	622.36	616.28	623.66	636.93	625.17	626.54
621.01	621.91	622.37	619.90	623.69	623.31	625.19	622.17
621.03	602.74	622.38	639.03	623.71	622.31	625.20	636.05
621.05	613.14	622.41	622.95	623.72	621.79	625.21	637.03
621.06	664.50	622.44	634.42	623.75	604.54	625.22	629.14
621.07	631.85	622.46	642.97	623.78	628.83	625.23	637.17
621.09	611.18	622.47	646.68	623.80	647.47	625.25	621.02
621.10	616.88	622.50	636.67	623.81	631.69	625.26	643.41
621.11	623.35	622.51	650.81	623.90	643.92	625.27	647.88
621.13	610.54	622.52	618.10	623.94	633.81	625.28	611.81
621.16	617.16	622.53	650.93	623.96	623.50	625.31	624.73
621.18	618.49	622.55	628.63	624.00	617.75	625.32	631.27
621.20	618.06	622.58	641.11	624.03	664.12	625.33	637.12
621.22	605.67	622.63	622.05	624.10	622.19	625.34	649.56
621.23	630.15	622.65	629.00	624.12	634.82	625.35	620.97
621.26	637.70	622.67	631.39	624.13	623.84	625.36	622.52
621.28	616.28	622.69	628.04	624.15	609.71	625.37	625.60
621.29	649.25	622.71	625.45	624.17	637.27	625.42	620.91
621.30	625.16	622.72	626.44	624.18	632.52	625.45	629.53
621.35	613.31	622.75	611.88	624.20	616.80	625.46	634.17
621.38	615.19	622.77	634.26	624.22	650.98	625.47	632.26
621.39	618.67	622.80	632.94	624.23	611.49	625.52	609.70
621.40	638.77	622.81	644.05	624.26	628.75	625.53	602.03
621.41	618.36	622.84	638.18	624.28	621.12	625.55	625.98
621.42	611.88	622.86	606.03	624.31	608.73	625.56	617.32
621.43	624.05	622.87	622.12	624.32	626.08	625.58	624.64
621.44	619.78	622.88	617.80	624.34	618.46	625.61	618.01
621.46	629.48	622.89	622.39	624.36	632.70	625.62	609.74
621.48	629.03	622.90	617.35	624.40	617.93	625.63	628.47
621.49	623.29	622.92	618.76	624.42	622.94	625.67	628.43
621.50	624.07	622.95	617.83	624.43	631.87	625.68	620.56
621.55	647.86	622.97	636.06	624.45	626.90	625.70	614.20
621.56	628.90	623.00	628.43	624.47	607.82	625.71	614.32
621.58	624.68	623.03	641.10	624.55	634.52	625.72	644.45
621.61	645.71	623.06	620.89	624.56	628.28	625.74	615.28
621.63	640.18	623.10	627.58	624.57	625.71	625.78	617.26
621.64	618.53	623.12	626.96	624.60	612.52	625.80	633.92
621.65	626.79	623.14	623.06	624.62	623.01	625.82	621.79
621.69	629.12	623.18	648.23	624.65	618.20	625.83	638.32
621.70	635.61	623.19	608.25	624.66	614.69	625.86	624.95
621.75	645.61	623.20	617.79	624.69	643.24	625.87	645.99
621.83	626.40	623.21	611.14	624.70	624.57	625.95	649.20
621.84	627.11	623.24	620.34	624.72	614.52	625.97	616.96
621.85	622.95	623.26	630.36	624.73	632.08	625.99	637.07
621.86	634.49	623.32	635.19	624.76	637.56	626.03	633.57
621.91	644.99	623.33	636.44	624.77	633.48	626.05	631.02
621.95	626.24	623.34	619.50	624.83	626.26	626.06	641.69
621.97	638.52	623.35	627.49	624.85	643.34	626.11	614.16
622.00	625.89	623.38	649.37	624.86	628.82	626.14	637.17

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
626.18	622.53	627.62	636.29	629.20	647.79	630.57	650.92
626.23	671.82	627.63	634.82	629.23	621.84	630.58	631.45
626.28	633.07	627.66	634.47	629.30	629.97	630.61	633.14
626.31	619.61	627.71	633.60	629.31	629.26	630.62	642.69
626.32	639.31	627.74	636.88	629.34	640.85	630.63	637.77
626.36	618.94	627.75	633.83	629.35	632.92	630.64	619.67
626.38	634.35	627.76	635.36	629.36	614.31	630.68	624.46
626.41	642.56	627.77	634.65	629.39	618.35	630.73	628.82
626.42	632.24	627.78	638.24	629.40	630.23	630.77	645.04
626.46	639.31	627.80	623.64	629.43	636.62	630.80	638.25
626.48	636.36	627.83	620.11	629.46	631.41	630.81	634.06
626.51	632.98	627.88	627.12	629.47	610.76	630.82	628.27
626.54	637.03	627.90	635.39	629.52	621.41	630.84	629.52
626.55	637.56	627.91	632.17	629.59	617.73	630.86	633.47
626.56	620.72	627.92	621.27	629.60	637.71	630.87	644.46
626.57	672.73	627.94	639.95	629.61	629.57	630.88	650.96
626.58	611.51	627.96	644.23	629.62	639.10	630.89	649.21
626.59	598.28	628.05	617.73	629.64	632.53	630.90	643.27
626.61	631.15	628.06	629.69	629.65	631.69	630.91	632.23
626.68	628.01	628.07	640.37	629.66	636.93	630.92	634.54
626.71	644.45	628.09	653.44	629.68	631.17	630.94	640.42
626.73	624.91	628.10	624.09	629.70	623.89	631.01	634.97
626.75	635.12	628.11	620.88	629.73	646.41	631.04	640.54
626.76	640.76	628.13	630.90	629.74	633.42	631.11	659.46
626.79	625.40	628.20	630.41	629.75	622.62	631.13	630.35
626.80	619.72	628.22	614.01	629.76	634.31	631.14	636.18
626.82	613.52	628.23	624.05	629.79	635.64	631.15	628.67
626.84	628.77	628.25	607.70	629.81	627.20	631.19	635.72
626.88	621.25	628.26	640.35	629.83	650.43	631.22	655.46
626.92	634.96	628.28	633.69	629.84	633.73	631.23	630.23
626.93	646.39	628.30	629.11	629.85	645.89	631.24	606.45
626.94	622.78	628.32	614.94	629.86	608.24	631.25	636.13
626.95	608.48	628.34	639.62	629.89	619.43	631.26	638.60
626.97	605.00	628.35	637.90	629.91	635.77	631.27	633.95
627.05	622.47	628.39	646.16	629.93	623.36	631.34	629.38
627.08	636.77	628.41	617.37	629.95	627.54	631.42	625.69
627.11	624.20	628.43	630.00	629.96	631.34	631.43	639.93
627.14	631.74	628.44	640.71	629.97	631.44	631.44	631.39
627.20	633.02	628.45	637.30	630.01	648.54	631.47	622.49
627.21	637.06	628.46	614.68	630.04	625.12	631.48	636.31
627.22	642.30	628.51	630.96	630.06	634.29	631.57	607.89
627.23	625.35	628.54	640.14	630.11	628.97	631.58	628.72
627.24	635.82	628.55	636.97	630.13	615.44	631.60	612.10
627.26	631.66	628.67	633.90	630.15	622.29	631.63	654.99
627.28	621.04	628.68	653.04	630.18	630.72	631.65	642.07
627.29	632.58	628.70	625.94	630.22	644.27	631.67	634.83
627.30	634.51	628.81	617.40	630.23	624.62	631.69	628.86
627.31	639.93	628.86	634.61	630.24	614.88	631.70	637.43
627.34	628.86	628.87	631.97	630.25	621.28	631.71	633.86
627.35	637.22	628.89	630.42	630.27	603.88	631.72	633.40
627.38	639.85	628.94	615.32	630.28	627.42	631.74	634.90
627.41	632.90	628.95	642.74	630.34	661.70	631.75	648.73
627.44	606.00	628.97	627.61	630.38	638.94	631.76	641.97
627.47	630.63	628.98	633.26	630.39	611.36	631.80	647.81
627.48	625.36	628.99	619.37	630.43	625.28	631.83	632.67
627.51	631.54	629.03	644.86	630.44	617.30	631.85	630.57
627.52	629.62	629.04	625.80	630.47	635.54	631.88	629.87
627.55	649.30	629.06	631.69	630.48	647.39	631.90	638.09
627.59	630.29	629.08	635.09	630.49	636.59	631.91	642.06
627.61	642.64	629.13	662.96	630.53	628.78	631.94	657.10

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
631.95	640.68	633.69	625.70	635.09	642.63	636.60	634.81
631.97	646.50	633.70	641.69	635.12	640.84	636.65	648.29
632.01	622.23	633.71	641.49	635.14	633.63	636.69	643.67
632.05	635.13	633.72	638.14	635.15	649.56	636.72	643.64
632.08	640.09	633.75	620.18	635.16	616.86	636.73	642.37
632.10	613.19	633.76	635.18	635.20	641.74	636.77	641.98
632.13	656.65	633.77	636.25	635.21	646.48	636.79	631.41
632.14	656.84	633.81	626.39	635.24	611.02	636.81	620.85
632.15	647.63	633.87	640.56	635.27	634.96	636.83	640.10
632.23	627.85	633.89	649.45	635.31	632.90	636.84	636.06
632.29	669.50	633.90	631.79	635.32	639.36	636.88	639.65
632.35	636.03	633.92	639.48	635.37	643.40	636.89	648.33
632.37	633.51	633.93	643.18	635.40	641.33	636.94	634.60
632.39	636.22	633.94	644.42	635.41	646.82	636.96	634.73
632.40	617.70	633.95	637.97	635.45	646.93	636.99	628.79
632.44	621.44	633.96	643.96	635.48	627.77	637.08	646.22
632.45	634.69	633.97	649.41	635.49	643.64	637.09	632.31
632.46	634.58	634.00	634.90	635.50	624.05	637.10	648.94
632.48	641.48	634.01	627.14	635.51	659.44	637.12	626.42
632.49	634.74	634.04	650.91	635.54	652.16	637.14	661.51
632.52	628.08	634.05	645.84	635.59	636.07	637.16	621.09
632.54	631.18	634.06	614.68	635.60	625.61	637.21	658.53
632.64	634.11	634.07	630.33	635.64	633.34	637.23	657.54
632.70	633.89	634.10	625.63	635.69	643.94	637.24	622.48
632.73	660.78	634.13	627.09	635.71	634.25	637.30	630.25
632.74	618.39	634.15	625.11	635.72	638.68	637.32	642.25
632.75	634.87	634.16	619.55	635.73	636.10	637.33	625.06
632.80	619.62	634.21	623.08	635.74	608.79	637.35	620.36
632.81	638.15	634.23	632.31	635.77	630.52	637.38	641.94
632.84	643.04	634.25	620.39	635.78	646.91	637.39	653.35
632.86	638.07	634.31	647.43	635.82	623.56	637.43	642.55
632.90	627.27	634.33	625.05	635.86	635.09	637.51	650.06
632.92	620.38	634.34	642.88	635.97	631.92	637.53	652.42
632.93	640.93	634.35	620.52	635.98	645.32	637.55	649.26
632.95	639.93	634.41	664.72	635.99	628.72	637.57	625.34
632.97	639.75	634.43	626.84	636.03	637.54	637.60	616.51
633.00	654.03	634.46	627.21	636.07	636.24	637.64	641.94
633.04	631.06	634.50	637.17	636.09	639.84	637.67	660.84
633.07	638.68	634.51	671.73	636.12	646.22	637.68	641.85
633.17	624.23	634.53	650.33	636.15	643.26	637.70	659.15
633.20	606.35	634.54	639.71	636.16	627.54	637.71	644.09
633.21	648.61	634.56	631.79	636.17	640.92	637.72	638.92
633.22	626.85	634.58	627.26	636.22	632.40	637.74	633.86
633.23	632.36	634.59	628.83	636.24	650.98	637.79	638.77
633.24	633.51	634.61	634.21	636.29	659.42	637.82	645.63
633.27	628.51	634.64	608.38	636.32	683.53	637.83	646.95
633.29	630.50	634.67	639.72	636.34	650.56	637.84	633.55
633.31	641.50	634.68	629.34	636.35	629.18	637.86	617.22
633.33	636.64	634.70	638.68	636.36	644.94	637.90	649.17
633.34	611.04	634.74	631.42	636.40	644.95	637.94	639.49
633.35	629.68	634.75	648.27	636.42	644.80	637.99	636.01
633.36	620.66	634.81	624.62	636.43	633.29	638.01	631.42
633.37	628.33	634.82	638.37	636.45	638.77	638.03	646.30
633.46	632.53	634.86	636.27	636.47	664.94	638.05	653.44
633.51	632.59	634.88	634.82	636.48	634.51	638.08	643.33
633.55	639.86	634.92	647.82	636.50	632.82	638.10	640.23
633.56	619.82	634.93	643.91	636.54	659.55	638.14	603.38
633.57	644.67	634.97	635.29	636.56	631.97	638.15	658.57
633.58	650.49	635.00	652.07	636.58	634.15	638.16	638.49
633.65	636.69	635.05	630.75	636.59	643.99	638.17	617.60

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
638.19	652.23	640.19	633.73	641.85	643.95	643.40	646.01
638.20	626.00	640.20	646.10	641.87	664.31	643.47	650.90
638.25	633.65	640.23	650.56	641.92	633.73	643.48	639.51
638.32	636.08	640.26	650.71	641.93	623.07	643.50	663.53
638.34	646.27	640.28	636.06	641.96	640.74	643.51	635.84
638.46	634.25	640.29	619.62	641.98	617.04	643.52	649.68
638.58	627.87	640.30	633.26	642.04	631.43	643.63	658.47
638.60	633.43	640.41	628.10	642.06	648.78	643.65	653.45
638.62	631.44	640.43	648.05	642.10	650.81	643.68	642.30
638.63	627.11	640.47	642.77	642.14	639.72	643.70	654.42
638.67	658.36	640.49	629.55	642.16	615.82	643.71	671.58
638.68	638.78	640.52	655.46	642.17	640.84	643.74	625.19
638.69	635.45	640.55	646.27	642.27	648.57	643.75	651.78
638.72	639.93	640.59	662.25	642.31	639.71	643.77	642.00
638.73	650.26	640.60	648.64	642.34	665.66	643.82	655.85
638.82	650.69	640.63	650.19	642.36	634.82	643.85	650.70
638.86	643.62	640.64	649.14	642.41	657.92	643.86	645.88
638.88	650.60	640.66	664.39	642.42	653.42	643.88	646.96
638.90	676.49	640.68	635.10	642.46	659.12	643.89	681.70
638.92	636.50	640.70	647.49	642.47	628.02	643.90	661.39
638.93	644.17	640.71	642.54	642.53	651.66	643.95	650.92
638.95	651.39	640.72	649.85	642.55	664.65	644.05	655.63
638.98	640.64	640.75	641.14	642.57	642.92	644.13	651.20
638.99	671.51	640.77	658.35	642.60	643.24	644.15	649.10
639.03	658.37	640.78	644.81	642.61	648.30	644.19	648.36
639.08	642.90	640.79	641.65	642.62	662.60	644.20	647.77
639.09	644.99	640.85	650.81	642.64	644.42	644.23	652.67
639.10	649.11	640.88	653.82	642.70	638.08	644.24	637.22
639.12	639.61	640.93	637.48	642.72	649.62	644.26	638.91
639.14	638.47	640.94	652.22	642.74	641.13	644.31	646.35
639.20	650.74	640.96	663.58	642.76	651.37	644.34	638.89
639.30	644.44	640.99	643.84	642.79	631.37	644.41	644.15
639.32	632.79	641.00	614.58	642.80	638.64	644.43	649.72
639.34	659.34	641.01	633.49	642.83	646.16	644.45	647.80
639.37	644.85	641.04	661.40	642.85	665.02	644.46	660.27
639.41	627.20	641.07	638.48	642.87	672.34	644.50	648.67
639.44	635.16	641.14	665.36	642.89	638.97	644.51	628.54
639.53	661.53	641.18	633.21	642.91	651.42	644.54	616.72
639.58	625.34	641.22	633.46	642.93	641.90	644.61	678.13
639.59	630.49	641.25	646.06	642.94	655.09	644.64	637.70
639.60	635.36	641.26	643.61	642.95	640.55	644.67	638.97
639.64	632.36	641.27	646.62	642.99	663.03	644.69	657.10
639.65	638.03	641.28	640.94	643.00	646.43	644.73	650.71
639.73	651.29	641.45	656.14	643.02	645.01	644.74	637.92
639.75	647.81	641.46	616.67	643.03	627.74	644.77	636.45
639.77	637.86	641.52	630.79	643.04	660.15	644.80	654.69
639.79	656.03	641.53	642.32	643.06	640.44	644.81	657.68
639.80	635.69	641.54	631.76	643.08	648.24	644.85	635.52
639.81	639.13	641.55	649.13	643.09	636.03	644.88	683.86
639.84	639.30	641.57	632.61	643.10	651.88	644.91	630.65
639.85	646.22	641.60	644.36	643.15	627.31	644.92	619.97
639.86	635.85	641.61	642.70	643.16	642.82	644.95	637.83
639.89	647.80	641.62	641.29	643.17	631.42	644.97	653.04
639.94	668.24	641.63	679.28	643.20	653.22	644.99	640.92
640.05	644.41	641.65	652.68	643.21	623.20	645.01	637.54
640.07	662.72	641.73	632.40	643.25	656.61	645.03	656.44
640.10	633.08	641.75	668.05	643.28	632.52	645.04	669.02
640.14	657.79	641.79	659.03	643.30	650.75	645.05	644.89
640.15	632.62	641.81	647.15	643.33	636.83	645.07	628.44
640.17	651.73	641.84	652.88	643.35	635.01	645.13	639.62

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
645.14	635.71	647.03	650.89	649.38	642.17	650.85	646.28
645.25	648.67	647.06	659.31	649.40	632.81	650.88	649.73
645.33	655.58	647.09	657.17	649.42	665.97	650.90	641.13
645.34	655.82	647.16	654.01	649.47	633.82	650.95	628.14
645.44	639.97	647.24	635.67	649.51	649.93	650.96	650.68
645.47	665.67	647.28	648.49	649.54	656.77	651.00	650.80
645.51	646.07	647.30	648.17	649.58	652.42	651.01	645.59
645.52	652.89	647.31	656.50	649.60	649.24	651.02	647.21
645.57	627.83	647.32	656.13	649.64	652.66	651.03	676.61
645.58	635.24	647.39	646.20	649.66	660.67	651.04	644.47
645.60	643.17	647.44	633.75	649.68	629.75	651.05	662.28
645.62	661.91	647.63	649.63	649.71	645.86	651.06	642.51
645.64	661.03	647.65	640.41	649.72	671.56	651.07	662.73
645.66	643.47	647.71	651.78	649.74	657.96	651.08	659.30
645.68	653.05	647.74	651.90	649.79	665.21	651.11	643.72
645.73	655.55	647.79	650.93	649.80	634.78	651.13	669.74
645.74	621.85	647.83	641.95	649.81	660.91	651.23	660.35
645.76	636.97	647.85	652.90	649.82	661.24	651.24	643.92
645.80	659.52	647.92	656.34	649.84	657.52	651.25	657.79
645.83	653.48	647.93	650.82	649.88	649.74	651.27	657.64
645.85	627.67	647.95	654.13	649.89	646.91	651.28	649.16
645.91	645.57	647.98	626.71	649.91	657.74	651.31	660.83
645.93	655.58	648.15	648.00	649.92	642.16	651.32	656.83
645.98	650.91	648.16	653.66	649.94	628.58	651.46	668.48
646.01	625.74	648.20	632.45	649.97	647.78	651.47	657.70
646.03	662.00	648.21	645.97	650.00	675.88	651.50	675.33
646.08	658.83	648.26	672.59	650.02	642.48	651.52	650.01
646.12	638.57	648.30	661.35	650.03	661.80	651.56	636.12
646.13	637.26	648.36	659.62	650.13	659.19	651.62	638.99
646.14	656.98	648.40	649.17	650.14	650.66	651.63	656.88
646.17	670.34	648.43	648.97	650.19	652.30	651.65	664.78
646.18	632.70	648.45	671.56	650.21	674.62	651.66	670.76
646.21	657.71	648.47	659.12	650.22	654.64	651.68	630.04
646.23	624.44	648.49	631.19	650.24	657.06	651.70	648.97
646.24	631.64	648.50	638.32	650.25	666.74	651.76	663.17
646.25	657.35	648.52	641.87	650.28	647.49	651.78	657.56
646.26	650.43	648.53	638.85	650.29	656.22	651.82	649.73
646.27	641.61	648.57	669.89	650.31	655.85	651.85	661.41
646.30	645.06	648.60	656.44	650.34	657.10	651.86	627.89
646.37	641.73	648.66	652.29	650.36	650.73	651.89	676.05
646.39	666.58	648.69	636.18	650.43	679.29	651.93	656.36
646.40	656.58	648.70	649.94	650.45	657.57	651.98	652.65
646.42	664.45	648.75	654.93	650.47	648.90	651.99	653.04
646.45	637.02	648.76	656.45	650.52	655.38	652.04	662.62
646.47	659.72	648.77	649.86	650.57	650.42	652.06	647.36
646.48	632.37	648.78	643.41	650.61	662.78	652.13	652.60
646.54	632.21	648.79	666.32	650.62	643.07	652.14	668.89
646.56	652.19	648.81	645.58	650.63	648.24	652.15	635.25
646.61	647.48	648.96	639.60	650.64	650.09	652.16	667.52
646.66	647.39	648.98	660.32	650.69	656.91	652.17	646.30
646.74	654.69	649.00	656.19	650.70	660.75	652.22	663.91
646.75	645.07	649.02	655.11	650.71	651.98	652.26	674.89
646.84	634.78	649.05	624.21	650.72	649.23	652.36	637.51
646.85	657.37	649.06	646.65	650.74	645.15	652.37	635.80
646.87	666.53	649.11	661.20	650.76	669.04	652.38	655.09
646.90	652.32	649.18	661.00	650.79	650.00	652.39	659.31
646.91	660.91	649.29	660.15	650.80	659.57	652.48	651.11
646.93	650.39	649.31	654.10	650.81	642.13	652.49	692.34
646.96	658.69	649.35	636.69	650.82	646.05	652.50	661.87
647.02	646.01	649.37	693.72	650.84	656.69	652.51	669.88

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
652.55	641.59	654.69	662.73	657.06	644.50	659.44	654.97
652.59	645.82	654.70	679.09	657.10	672.24	659.50	648.33
652.64	656.24	654.75	639.11	657.15	673.31	659.51	663.06
652.65	667.31	654.78	655.88	657.19	657.33	659.61	658.11
652.68	656.21	654.81	661.26	657.21	673.51	659.63	648.56
652.69	632.91	654.83	639.56	657.29	662.90	659.69	663.02
652.70	648.14	654.92	661.60	657.30	670.74	659.70	652.82
652.75	652.56	654.98	658.37	657.32	669.86	659.73	657.80
652.86	649.46	655.00	648.56	657.38	641.97	659.74	674.96
652.90	639.37	655.04	642.10	657.39	678.04	659.77	674.72
652.91	653.89	655.05	648.08	657.40	665.47	659.82	652.36
653.00	646.18	655.10	679.84	657.51	673.14	659.84	644.93
653.05	642.88	655.15	652.75	657.56	659.11	659.85	660.97
653.07	652.00	655.22	662.69	657.64	671.16	659.92	652.98
653.13	664.57	655.23	671.36	657.78	666.13	659.93	665.99
653.14	638.97	655.25	651.47	657.79	636.74	659.97	651.68
653.19	660.75	655.30	664.19	657.87	667.06	660.20	649.02
653.21	646.26	655.32	657.86	657.88	661.78	660.28	649.71
653.23	640.26	655.33	649.31	657.89	670.92	660.34	677.01
653.25	639.99	655.34	663.51	657.91	679.19	660.36	679.06
653.29	630.85	655.36	670.10	657.94	649.07	660.42	652.09
653.34	679.66	655.46	662.47	657.98	664.73	660.48	654.33
653.36	659.83	655.48	681.12	658.02	647.07	660.50	667.22
653.43	642.32	655.50	665.75	658.06	682.27	660.53	652.62
653.46	651.23	655.61	663.66	658.18	648.68	660.58	635.98
653.50	635.42	655.72	662.84	658.24	648.97	660.59	676.99
653.51	673.39	655.76	643.34	658.28	667.34	660.61	663.32
653.52	646.63	655.77	642.86	658.32	659.88	660.64	674.95
653.56	670.93	655.82	653.08	658.35	661.91	660.66	677.17
653.59	638.48	655.83	652.89	658.36	656.68	660.72	641.84
653.61	658.45	655.88	660.45	658.40	657.41	660.73	673.30
653.64	671.49	655.94	674.29	658.41	642.42	660.76	676.94
653.68	668.83	655.95	660.15	658.42	661.63	660.77	663.38
653.74	657.68	655.99	647.65	658.43	683.18	660.86	653.55
653.78	629.26	656.06	664.22	658.45	669.76	660.88	673.10
653.80	662.73	656.12	648.78	658.46	653.99	660.91	669.69
653.82	680.35	656.16	663.77	658.47	662.71	660.93	659.61
653.83	660.76	656.21	649.64	658.52	666.11	661.02	683.34
653.88	658.64	656.23	653.07	658.62	698.82	661.07	641.01
653.96	661.89	656.28	668.11	658.65	655.12	661.11	645.10
654.03	653.57	656.39	668.56	658.66	654.99	661.14	660.51
654.04	639.56	656.40	662.48	658.78	674.77	661.15	651.49
654.05	647.23	656.41	649.22	658.80	654.08	661.16	661.78
654.10	650.86	656.46	657.00	658.82	673.65	661.26	661.09
654.18	661.39	656.49	663.37	658.88	668.80	661.29	649.72
654.22	660.14	656.51	653.71	658.92	653.28	661.31	637.42
654.24	675.57	656.54	658.46	658.94	653.31	661.33	646.73
654.25	665.77	656.58	651.40	658.96	669.33	661.34	660.73
654.30	648.08	656.61	650.56	658.98	660.22	661.40	659.77
654.37	649.82	656.62	661.91	659.01	646.27	661.51	658.88
654.40	642.03	656.63	672.22	659.03	675.81	661.58	676.36
654.42	670.91	656.69	656.01	659.07	649.20	661.62	668.15
654.44	662.53	656.71	671.01	659.11	640.17	661.65	657.76
654.47	652.14	656.73	665.06	659.16	673.82	661.81	682.13
654.50	656.35	656.74	634.46	659.21	679.26	661.88	645.58
654.54	649.37	656.76	669.36	659.29	671.53	661.94	669.07
654.55	674.23	656.82	654.51	659.31	649.04	661.96	651.33
654.57	645.73	656.91	649.51	659.32	656.66	662.00	655.80
654.63	655.61	656.93	650.97	659.37	673.67	662.03	656.82
654.68	680.94	657.05	649.55	659.40	698.29	662.04	675.69

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
662.07	675.71	664.26	676.08	666.81	663.89	669.28	668.90
662.09	654.32	664.31	651.37	666.82	648.60	669.33	684.82
662.11	656.22	664.38	644.49	666.85	670.31	669.36	689.99
662.16	684.95	664.40	665.54	666.87	673.82	669.37	681.30
662.17	658.95	664.51	671.04	666.90	666.53	669.49	672.42
662.19	668.58	664.52	677.61	666.93	661.80	669.52	671.72
662.22	638.78	664.53	656.80	667.04	674.93	669.55	667.59
662.33	638.16	664.58	667.21	667.11	673.14	669.59	678.32
662.39	670.46	664.62	671.13	667.20	680.58	669.65	644.89
662.41	677.81	664.68	672.12	667.21	668.97	669.66	686.15
662.53	646.83	664.72	647.86	667.22	669.06	669.67	660.84
662.59	671.49	664.79	649.07	667.23	649.45	669.71	671.69
662.60	672.23	664.85	667.37	667.32	682.13	669.72	691.01
662.64	665.57	664.87	667.90	667.43	649.78	669.82	670.43
662.81	666.07	664.89	679.08	667.44	680.29	669.83	687.72
662.82	654.93	664.94	666.76	667.45	681.25	669.85	712.61
662.84	665.61	664.97	664.86	667.56	646.63	670.01	665.78
662.85	678.77	664.99	648.37	667.57	660.27	670.15	646.60
662.86	676.87	665.02	661.29	667.62	673.49	670.16	679.85
662.88	673.31	665.03	636.35	667.81	649.34	670.17	683.52
662.89	667.48	665.07	668.65	667.83	657.49	670.25	659.95
662.90	642.50	665.20	660.22	667.84	676.29	670.32	682.25
662.92	647.42	665.27	685.64	667.87	666.22	670.34	668.37
662.93	668.30	665.32	674.06	667.89	654.22	670.35	691.07
662.97	675.85	665.35	669.11	667.96	663.61	670.37	677.05
662.98	671.72	665.38	657.72	668.02	674.93	670.44	676.27
662.99	660.60	665.40	660.62	668.07	654.78	670.49	666.32
663.03	670.75	665.42	658.02	668.09	654.38	670.56	668.60
663.04	693.11	665.44	660.13	668.10	682.08	670.58	668.24
663.07	676.36	665.73	659.27	668.14	681.11	670.60	666.18
663.11	676.22	665.77	667.90	668.17	658.31	670.69	667.81
663.12	664.28	665.84	669.66	668.20	684.31	670.70	687.65
663.15	655.47	665.91	675.58	668.24	690.30	670.71	662.21
663.16	660.30	665.94	691.84	668.25	690.84	670.89	663.09
663.20	675.35	665.96	678.59	668.32	670.36	670.93	684.72
663.21	648.08	665.99	651.60	668.40	652.30	670.95	666.83
663.23	672.62	666.00	688.39	668.42	674.16	670.96	674.58
663.31	672.22	666.03	649.89	668.43	665.51	671.06	684.19
663.34	659.69	666.12	673.94	668.50	675.73	671.14	641.04
663.35	673.40	666.20	662.55	668.63	681.65	671.22	685.98
663.36	658.94	666.22	678.99	668.66	658.11	671.26	679.08
663.43	671.51	666.23	670.45	668.69	665.26	671.27	674.04
663.48	679.93	666.26	657.19	668.72	663.98	671.34	653.86
663.54	653.93	666.28	681.99	668.74	678.72	671.36	668.56
663.57	655.73	666.29	655.95	668.79	661.10	671.37	673.10
663.61	672.90	666.30	670.63	668.86	660.26	671.60	685.37
663.71	693.98	666.37	632.83	668.90	673.41	671.65	687.41
663.74	668.31	666.40	666.17	668.94	687.10	671.75	663.98
663.79	657.95	666.42	659.46	668.98	676.80	671.79	679.60
663.82	667.68	666.45	669.51	668.99	649.70	671.83	684.99
663.97	663.00	666.47	668.04	669.00	679.01	671.85	663.94
663.99	645.97	666.49	679.87	669.01	649.32	671.88	650.55
664.00	636.58	666.55	670.86	669.02	669.51	671.90	678.48
664.10	648.58	666.57	671.30	669.04	646.61	671.91	668.29
664.12	668.32	666.63	663.72	669.06	656.61	671.93	691.97
664.13	674.83	666.64	665.29	669.08	681.93	671.99	674.56
664.16	670.23	666.72	673.37	669.13	659.94	672.08	674.24
664.19	646.45	666.73	664.14	669.15	651.61	672.10	690.22
664.20	663.81	666.76	657.54	669.19	666.85	672.13	675.92
664.24	659.07	666.77	659.50	669.25	671.04	672.14	676.37

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
672.22	692.30	675.65	685.90	678.71	665.73	682.58	677.91
672.36	679.14	675.71	670.75	678.72	681.54	682.68	693.55
672.42	680.92	675.82	688.98	678.89	663.28	682.69	667.10
672.47	666.70	675.88	672.26	679.01	689.92	682.82	679.89
672.49	672.54	675.92	698.16	679.04	700.75	682.96	689.71
672.52	677.55	676.00	684.47	679.31	694.53	683.09	694.37
672.54	694.09	676.01	688.87	679.32	668.52	683.11	689.56
672.64	663.89	676.03	673.77	679.33	676.78	683.47	670.75
672.66	674.51	676.05	696.32	679.34	675.63	683.56	695.40
672.71	689.53	676.06	688.73	679.38	669.71	683.58	653.82
672.84	671.13	676.21	665.74	679.45	670.14	683.60	675.44
672.89	648.18	676.27	667.23	679.48	665.53	683.67	690.72
672.97	684.83	676.31	672.01	679.50	668.58	683.77	675.40
673.05	670.25	676.52	697.51	679.56	667.82	683.93	673.40
673.06	663.60	676.53	665.91	679.61	668.86	684.03	650.66
673.07	671.34	676.60	663.07	679.71	663.16	684.08	657.70
673.09	675.04	676.62	670.20	679.74	686.09	684.23	683.97
673.17	673.68	676.65	682.97	679.89	678.62	684.32	681.52
673.25	674.37	676.67	674.18	679.96	695.85	684.43	695.11
673.26	676.31	676.69	669.77	679.97	664.40	684.46	681.05
673.31	675.48	676.71	685.52	680.00	664.95	684.60	671.51
673.33	659.38	676.75	659.58	680.02	673.21	684.61	660.67
673.43	694.49	676.79	671.47	680.32	665.23	684.69	699.00
673.46	674.94	676.88	684.88	680.44	702.75	684.70	686.97
673.50	664.20	676.89	682.18	680.45	673.30	684.76	693.19
673.58	670.17	676.91	686.76	680.60	676.66	684.95	664.78
673.65	668.27	676.96	670.43	680.64	666.72	685.01	675.45
673.78	685.90	676.97	679.06	680.66	661.42	685.09	689.81
673.79	667.65	676.98	698.38	680.70	681.75	685.13	682.89
673.84	679.53	677.01	676.68	680.72	694.84	685.21	689.47
673.94	671.68	677.03	670.04	680.74	689.02	685.43	678.10
674.05	667.17	677.12	690.40	680.75	658.62	685.72	698.59
674.19	678.94	677.13	670.58	680.76	686.58	685.75	668.66
674.20	674.21	677.15	670.55	680.79	691.09	685.79	679.06
674.24	687.90	677.22	662.46	680.96	656.74	685.96	699.75
674.38	671.48	677.23	672.29	681.10	690.33	686.14	673.69
674.42	673.88	677.24	669.29	681.16	685.86	686.15	676.12
674.44	686.92	677.30	675.93	681.19	685.93	686.17	684.56
674.45	673.89	677.46	679.41	681.27	695.41	686.23	679.87
674.49	675.75	677.48	685.99	681.34	668.76	686.31	688.79
674.50	668.65	677.60	675.71	681.35	675.37	686.42	695.21
674.59	680.27	677.66	671.96	681.52	690.79	686.51	689.91
674.69	680.11	677.71	669.68	681.59	682.25	686.63	685.05
674.74	660.72	677.74	688.25	681.63	682.41	686.80	701.77
674.78	680.85	677.75	672.76	681.80	664.53	686.82	670.66
674.79	673.54	677.77	656.85	681.85	685.07	687.01	693.95
674.80	679.18	677.87	658.06	681.86	683.54	687.03	671.47
674.81	647.94	677.88	658.36	681.94	671.71	687.05	699.67
674.82	668.39	678.04	652.72	682.03	689.41	687.07	689.67
674.86	665.60	678.06	664.49	682.12	673.62	687.08	667.19
674.89	676.83	678.10	682.68	682.17	668.67	687.10	696.00
674.92	690.67	678.13	692.27	682.19	675.69	687.20	668.85
675.02	666.07	678.14	685.57	682.26	663.52	687.37	699.18
675.03	674.16	678.42	681.50	682.34	671.39	687.39	703.15
675.16	695.25	678.44	685.71	682.36	680.21	687.44	678.33
675.21	648.70	678.47	677.79	682.40	665.76	687.49	678.00
675.38	659.07	678.48	689.03	682.41	671.92	687.54	684.15
675.47	665.80	678.57	696.29	682.44	673.99	687.71	685.56
675.51	660.49	678.67	675.98	682.49	670.51	687.77	668.77
675.55	681.17	678.70	678.10	682.53	692.93	687.87	676.94



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
687.92	677.46	693.27	675.33	698.62	701.06	705.71	693.01
688.05	666.30	693.29	672.39	698.76	713.95	705.92	711.87
688.06	699.95	693.40	678.40	698.81	703.88	706.20	710.69
688.07	678.22	693.42	674.13	698.93	664.39	706.23	702.33
688.17	709.75	693.43	661.65	699.04	686.79	706.25	719.61
688.27	691.48	693.59	667.64	699.19	687.60	706.29	690.09
688.35	693.59	693.64	680.06	699.24	703.95	706.30	702.95
688.41	680.94	693.70	700.32	699.25	689.94	706.31	724.21
688.42	692.64	693.71	692.60	699.35	705.18	706.37	717.49
688.92	692.76	693.85	677.01	699.38	694.51	706.52	703.57
689.12	695.25	693.87	694.25	699.44	689.97	706.69	699.18
689.13	686.37	693.92	702.36	699.48	678.98	706.71	693.86
689.15	674.55	693.93	703.01	699.60	703.49	706.73	723.09
689.19	689.55	694.21	686.86	699.69	703.22	707.12	695.76
689.27	687.11	694.31	692.15	699.70	665.60	707.13	715.97
689.28	687.10	694.42	699.65	699.73	702.94	707.31	706.07
689.31	687.30	694.52	706.60	699.75	683.46	707.32	699.35
689.32	699.74	694.54	682.63	699.78	692.66	707.38	687.65
689.39	674.71	694.60	704.24	700.24	689.53	707.40	698.09
689.52	701.94	694.75	689.78	700.28	684.61	707.46	703.29
689.75	691.10	694.79	703.38	700.38	693.11	707.54	707.45
689.82	711.26	694.80	702.68	700.60	683.24	707.64	701.69
689.90	666.07	694.94	710.77	700.62	683.63	707.75	672.56
689.94	691.96	694.98	703.34	700.75	699.51	707.90	715.44
689.98	693.46	695.22	705.18	700.78	696.79	707.91	699.61
690.11	689.80	695.32	701.39	700.87	716.97	707.95	706.28
690.25	707.62	695.44	681.98	701.14	676.81	708.17	695.72
690.29	711.14	695.45	704.37	701.42	686.75	708.35	691.00
690.52	645.72	695.46	680.49	701.47	707.00	708.38	687.77
690.53	686.32	695.47	672.55	701.59	705.43	708.41	672.96
690.56	674.96	695.52	674.35	701.61	690.83	708.66	708.73
690.65	694.37	695.56	704.19	701.63	698.16	709.27	716.40
690.84	680.56	695.70	683.69	701.72	718.06	709.28	684.92
690.89	669.97	695.88	677.59	701.76	689.43	709.30	696.22
690.91	690.65	695.99	673.16	701.86	697.30	709.54	711.82
690.98	698.00	696.03	700.01	702.03	696.87	709.72	701.76
691.07	684.80	696.19	701.01	702.08	717.93	709.94	695.07
691.08	689.97	696.34	691.74	702.10	704.20	710.03	726.66
691.25	682.38	696.35	711.16	702.16	717.71	710.04	717.45
691.31	713.38	696.36	665.36	702.34	688.21	710.11	707.70
691.44	691.28	696.59	677.69	702.38	695.02	710.34	707.63
691.54	693.69	696.61	692.44	702.79	687.13	710.64	693.89
691.61	690.73	696.73	689.38	703.23	707.72	710.96	702.41
691.70	676.92	696.74	709.94	703.41	692.35	710.99	684.09
692.26	680.71	696.95	683.00	703.74	718.92	711.07	710.76
692.42	706.73	696.96	697.21	703.91	694.92	711.22	721.14
692.43	673.70	697.09	690.71	703.92	692.80	711.29	716.88
692.44	687.28	697.25	693.18	704.30	720.23	711.36	710.66
692.53	707.28	697.31	688.36	704.35	684.56	711.46	711.95
692.62	660.93	697.51	679.18	704.58	712.62	711.52	685.00
692.63	693.78	697.86	694.40	704.73	713.31	711.65	709.07
692.78	680.40	698.07	691.10	704.76	691.60	711.66	686.97
692.81	697.32	698.15	714.66	704.79	726.07	711.72	719.44
692.84	712.40	698.23	686.09	704.85	694.69	711.81	705.03
693.05	714.65	698.25	679.36	704.90	693.65	711.85	700.91
693.07	690.78	698.27	692.12	705.21	698.93	712.11	715.47
693.10	702.90	698.37	692.51	705.28	693.93	712.15	709.53
693.19	694.22	698.43	670.16	705.45	692.70	712.18	714.99
693.25	695.93	698.51	702.84	705.48	699.75	712.33	694.75
693.26	684.82	698.59	707.57	705.49	703.08	712.36	707.66

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
712.40	721.86	718.17	710.86	724.26	733.00	735.62	734.53
712.54	704.43	718.69	715.98	724.57	715.81	735.74	736.95
712.55	705.70	718.77	720.18	724.93	721.96	735.87	723.91
712.57	709.85	718.80	719.74	724.94	723.18	735.97	727.46
712.58	729.41	718.87	713.94	725.05	722.62	737.10	736.81
712.76	706.24	718.93	718.60	725.48	709.24	737.19	714.19
713.29	716.17	718.96	733.56	725.52	733.78	737.49	742.89
713.36	705.24	719.08	703.79	725.72	720.95	737.74	745.57
713.55	707.54	719.31	707.61	726.69	686.68	738.76	739.07
713.65	702.24	719.39	727.67	727.54	718.59	738.89	736.24
713.72	703.75	719.53	718.34	728.09	728.89	738.92	738.74
713.80	698.27	719.97	702.11	728.20	737.15	740.44	737.48
714.20	709.80	720.06	723.00	728.41	726.26	740.81	733.90
714.31	717.19	720.12	717.43	728.91	711.87	740.91	736.31
714.39	720.90	720.16	725.91	729.20	721.01	743.14	733.13
714.56	713.56	720.45	720.07	729.22	726.64	743.68	728.72
714.90	699.47	720.46	728.18	729.75	729.27	743.78	740.89
715.04	701.75	720.50	727.04	730.15	717.21	744.06	743.63
715.11	706.28	720.93	723.17	730.31	715.74	744.55	736.74
715.14	705.82	721.15	723.35	730.91	730.76	745.09	742.11
715.25	716.68	721.66	713.99	730.95	730.39	748.50	745.51
715.44	687.27	721.71	713.39	731.04	728.35	748.55	744.66
715.58	689.29	722.21	715.36	731.40	724.14	752.54	759.25
715.66	703.57	722.62	710.40	732.76	731.12	755.71	737.18
716.33	724.30	722.69	725.44	733.02	701.26	759.42	756.62
716.63	703.69	723.21	724.69	733.09	736.13	760.79	748.32
716.68	702.15	723.33	716.51	733.39	714.84	772.30	770.24
716.96	714.77	723.59	721.79	733.55	733.63	778.46	776.72
717.62	703.80	723.74	712.97	734.78	731.87	784.07	782.06
717.71	732.77	723.99	735.93	734.92	727.55		
717.79	720.02	724.24	728.30	735.54	744.06		

## Appendix F

**Score Conversion Tables from Concurrent Calibrations – Mathematics as Major and  
Minor Domains**

Table F.1

Original PISA scores (PV1) to new score

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
195.44	771.84	266.02	514.28	288.60	398.32	304.11	562.97
200.51	537.20	266.64	627.84	288.68	580.90	304.49	471.12
212.19	466.38	267.26	566.64	289.23	419.99	304.73	455.01
214.84	492.73	268.35	547.47	289.31	593.48	304.81	589.30
215.23	630.66	268.97	450.44	289.93	427.69	304.88	333.43
219.82	483.00	270.22	568.13	290.01	640.74	305.20	343.11
222.08	406.94	271.00	608.65	290.24	594.82	305.51	675.46
222.39	393.78	271.39	469.79	290.79	460.57	305.59	649.70
225.35	357.28	272.09	472.96	291.56	435.94	306.29	681.99
226.37	622.47	272.56	548.95	291.64	479.29	306.36	540.66
227.69	510.60	273.03	366.17	292.03	427.17	306.44	375.05
228.63	504.90	273.73	573.11	292.34	483.78	306.75	590.51
229.64	448.25	274.12	454.16	293.04	237.56	307.14	567.47
230.42	679.13	275.13	514.06	293.12	439.61	307.22	680.31
231.27	624.98	275.21	561.48	293.59	265.52	307.84	360.02
232.52	572.43	275.91	506.65	293.82	520.48	307.92	351.70
232.60	416.22	276.45	563.32	293.90	491.57	308.00	448.88
233.84	497.35	276.76	386.92	294.60	395.42	308.08	666.50
235.40	410.69	277.39	396.43	294.68	387.82	308.16	518.72
236.42	661.73	277.47	467.23	294.76	618.54	308.54	406.25
239.61	445.24	277.54	352.41	294.91	378.63	308.62	347.06
242.18	506.94	277.93	368.11	295.54	546.92	308.70	517.84
244.28	480.14	278.24	449.29	295.69	555.44	308.86	345.93
244.52	620.18	279.88	391.23	296.16	488.68	309.17	483.88
246.00	569.57	280.27	551.54	296.47	366.70	309.32	442.96
247.16	599.66	280.58	628.73	296.63	491.57	309.48	425.78
248.72	489.02	280.89	378.40	297.09	475.18	309.56	398.03
251.29	461.64	281.28	499.43	297.25	564.97	310.18	669.05
251.92	453.11	281.36	466.42	297.48	493.21	310.26	461.37
253.01	383.98	281.44	347.05	297.80	459.45	310.34	601.23
253.08	381.14	282.29	464.43	297.95	497.94	310.49	358.50
253.63	494.97	282.92	536.42	298.50	495.00	310.96	482.87
254.10	424.37	283.07	480.50	300.13	604.50	311.04	731.55
254.33	436.58	283.70	463.24	300.52	612.48	311.12	572.40
254.80	529.60	283.85	452.61	300.91	487.66	311.19	661.39
254.95	490.61	284.24	431.67	301.61	442.61	311.27	549.21
256.90	534.06	284.48	536.73	301.69	466.51	311.50	490.59
258.77	381.49	284.55	546.95	302.16	399.45	311.89	378.77
259.71	449.96	285.96	522.47	302.31	454.42	311.97	545.32
259.78	428.27	286.11	508.08	302.39	511.02	312.05	483.59
260.41	262.47	286.35	474.37	302.47	591.51	312.28	511.43
260.64	462.45	286.97	583.31	302.94	487.39	312.44	546.94
262.67	302.24	287.51	513.80	303.17	502.01	312.52	524.85
263.99	459.30	287.90	631.81	303.25	534.06	312.67	444.97
265.00	539.25	288.29	453.76	303.48	551.00	312.75	614.01
265.16	348.62	288.37	477.58	303.64	642.70	312.83	461.55
265.94	713.65	288.53	614.64	303.95	556.81	312.98	497.54

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
313.06	459.87	323.58	463.40	332.93	520.15	342.12	331.56
313.22	442.93	323.66	639.56	333.08	531.70	342.20	660.63
313.37	373.71	323.73	452.25	333.63	431.07	342.27	468.90
313.45	302.24	323.97	519.99	333.70	428.65	342.43	558.78
313.53	600.87	324.20	457.16	333.78	380.52	342.58	475.16
314.00	706.78	324.28	487.36	333.86	451.62	342.66	538.89
314.08	595.16	324.36	430.05	334.09	514.39	342.82	630.86
314.15	446.93	324.51	366.05	334.33	452.19	342.90	289.12
314.85	336.65	324.90	566.90	334.41	464.39	342.97	528.27
314.93	593.95	324.98	511.39	334.48	422.95	343.21	409.35
315.01	366.73	325.06	559.19	334.56	550.44	343.36	505.17
315.17	609.93	325.14	499.43	334.64	569.66	343.68	530.17
315.32	511.37	325.29	576.75	334.80	496.53	343.75	511.39
315.56	579.99	325.45	571.24	335.03	379.89	343.83	552.43
315.63	324.65	325.76	343.77	335.11	584.91	343.91	571.20
315.71	501.89	325.84	493.73	335.18	565.74	343.99	468.73
315.87	491.71	325.92	626.75	335.26	406.47	344.22	337.67
316.18	433.52	325.99	550.08	335.34	335.10	344.38	401.57
316.41	517.28	326.54	462.60	335.81	632.43	344.45	458.55
316.49	646.90	326.62	554.86	335.89	478.56	344.53	523.53
316.57	617.04	326.69	585.66	335.96	477.24	344.61	417.50
317.19	501.38	326.77	606.68	336.04	493.50	344.69	462.15
317.27	522.72	326.85	559.33	336.59	408.49	344.77	537.66
317.42	297.30	327.01	530.18	336.66	478.94	344.92	414.56
317.50	535.27	327.08	552.42	336.74	555.32	345.00	349.23
317.66	271.87	327.32	423.35	336.82	566.08	345.16	437.52
317.89	481.88	327.47	395.20	336.90	395.54	345.23	502.12
317.97	571.74	327.78	417.20	336.98	526.49	345.31	445.92
318.05	412.66	328.10	545.27	337.37	451.34	345.39	461.52
318.20	459.41	328.17	400.82	337.44	431.23	345.54	576.69
318.52	449.94	328.33	550.85	337.52	495.51	345.70	295.46
318.75	534.56	328.56	460.88	337.99	560.51	346.09	723.80
318.83	408.87	328.64	628.56	338.22	292.35	346.17	452.97
318.90	489.20	328.80	461.47	338.30	638.51	346.25	598.81
318.98	439.90	328.88	618.04	338.38	520.19	346.32	700.50
319.53	625.46	328.95	542.49	338.46	445.86	346.71	639.63
319.61	661.73	329.03	669.63	338.53	567.38	346.79	675.06
319.68	460.46	329.42	631.01	338.77	372.38	346.87	641.91
320.31	495.69	329.65	591.87	338.92	420.72	347.26	358.34
320.38	554.29	329.73	463.06	339.00	611.14	347.57	518.45
320.62	500.45	329.81	372.10	339.08	568.34	347.65	300.27
320.77	410.65	329.97	516.31	339.16	563.41	347.73	303.81
321.09	544.49	330.12	570.62	339.24	302.24	347.80	374.81
321.16	574.34	330.36	516.77	339.47	562.62	347.88	600.20
321.24	373.66	330.43	426.43	339.55	477.72	348.04	579.99
321.32	466.03	330.51	568.22	339.78	490.80	348.27	515.70
321.40	459.70	330.67	520.88	339.86	519.35	348.35	568.96
321.55	566.59	330.74	470.76	340.01	449.47	348.43	491.80
321.63	391.81	330.90	309.83	340.09	369.34	348.50	448.71
321.86	449.13	331.13	626.50	340.48	588.29	348.66	669.52
321.94	487.22	331.21	519.55	340.56	492.29	348.82	379.75
322.02	456.59	331.37	456.02	340.64	686.79	348.89	534.06
322.18	616.82	331.52	536.43	340.79	479.93	349.05	399.89
322.64	411.62	331.68	553.87	340.87	418.94	349.13	533.23
322.72	621.04	331.91	403.50	341.10	536.83	349.21	676.82
322.80	368.60	331.99	322.83	341.26	496.18	349.28	600.07
322.88	510.56	332.07	398.87	341.34	441.71	349.36	333.62
323.34	609.56	332.15	410.69	341.42	538.40	349.44	531.72
323.42	558.27	332.22	289.83	341.65	609.50	349.91	431.02
323.50	679.13	332.85	393.19	341.81	423.77	349.98	331.00

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
350.06	661.73	356.92	348.79	363.85	584.24	370.39	567.92
350.14	470.62	356.99	458.49	363.93	631.91	370.70	445.85
350.22	472.19	357.07	544.73	364.01	459.19	370.94	425.37
350.45	493.73	357.15	585.98	364.08	515.77	371.02	509.71
350.61	441.99	357.23	464.91	364.39	614.10	371.09	447.73
350.69	517.56	357.38	547.09	364.47	485.41	371.25	312.99
350.76	486.42	357.46	477.17	364.63	640.92	371.41	397.50
350.84	422.97	357.70	493.66	364.71	530.03	371.64	541.32
350.92	337.54	357.77	481.74	364.78	696.39	371.72	445.02
351.00	363.25	357.85	464.10	364.86	315.45	371.79	485.17
351.15	456.29	357.93	453.70	364.94	443.97	371.87	556.51
351.23	493.24	358.01	423.23	365.02	497.02	371.95	448.05
351.39	489.97	358.24	480.26	365.17	584.86	372.03	490.90
351.46	358.38	358.40	435.48	365.25	491.39	372.18	346.32
351.54	440.85	358.47	458.46	365.41	507.65	372.26	458.91
351.62	562.29	358.55	499.51	365.49	565.50	372.42	452.80
351.70	636.59	358.63	675.01	365.56	382.64	372.50	270.47
351.93	430.70	358.79	425.10	365.64	369.06	372.57	396.22
352.01	461.49	359.02	483.94	365.72	559.23	372.65	463.26
352.24	461.31	359.18	483.54	366.03	550.52	372.73	395.85
352.32	597.80	359.25	642.53	366.19	431.64	372.81	642.56
352.40	531.87	359.33	402.04	366.26	466.82	372.96	506.62
352.48	273.73	359.41	530.73	366.34	460.35	373.04	473.93
352.79	391.15	359.49	525.81	366.42	488.71	373.20	331.73
352.94	653.95	359.57	565.53	366.50	511.16	373.27	587.96
353.02	505.92	359.72	626.25	366.58	502.97	373.35	445.59
353.10	650.00	359.80	429.90	366.73	418.14	373.43	456.47
353.18	507.18	359.95	426.50	366.81	579.74	373.51	449.34
353.33	504.41	360.03	397.88	366.97	524.53	373.59	437.92
353.49	517.07	360.11	508.69	367.04	551.96	373.74	528.97
353.57	557.67	360.34	628.81	367.12	438.53	373.98	488.81
353.72	659.03	360.50	426.23	367.20	581.10	374.05	537.11
353.80	435.42	360.58	456.47	367.51	420.63	374.13	629.24
353.88	441.99	360.73	531.18	367.59	397.25	374.21	443.06
353.96	464.46	360.81	608.02	367.74	644.66	374.29	409.76
354.11	574.80	360.89	343.44	367.82	557.53	374.37	665.97
354.27	227.41	360.97	565.46	367.90	557.27	374.52	347.66
354.58	445.66	361.12	457.29	367.98	510.63	374.60	315.45
354.66	513.95	361.28	519.12	368.06	562.30	374.83	530.48
354.74	696.39	361.36	552.69	368.13	414.47	374.91	482.28
354.81	546.05	361.51	562.06	368.29	281.31	374.99	495.50
354.89	364.70	361.59	573.95	368.37	343.44	375.07	450.72
355.05	302.24	361.67	591.76	368.52	489.81	375.14	497.69
355.13	564.18	361.75	537.25	368.60	500.17	375.30	458.81
355.28	473.47	361.90	635.94	368.68	444.70	375.38	421.65
355.36	496.07	362.06	520.14	368.76	372.27	375.53	601.10
355.44	458.29	362.14	601.91	368.83	531.43	375.61	579.23
355.51	519.49	362.29	542.34	369.15	473.73	375.69	580.08
355.59	459.40	362.37	517.01	369.30	492.90	375.77	478.50
355.67	408.38	362.45	409.00	369.38	474.29	375.92	492.66
355.83	567.02	362.53	557.36	369.46	538.57	376.08	575.88
355.90	465.90	362.60	460.72	369.54	493.71	376.16	630.76
356.06	598.55	362.84	393.62	369.61	483.90	376.31	583.40
356.14	442.18	362.91	338.25	369.69	472.96	376.39	388.30
356.22	518.84	363.15	510.78	369.85	503.01	376.47	486.13
356.29	647.07	363.23	689.04	369.93	631.80	376.55	500.14
356.45	490.87	363.30	541.78	370.08	372.96	376.62	488.75
356.61	490.17	363.38	447.69	370.16	490.46	376.70	388.61
356.68	603.86	363.46	605.13	370.24	531.99	376.86	543.89
356.84	526.50	363.69	400.42	370.31	445.39	376.94	564.71

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
377.09	480.27	383.17	529.45	389.55	443.59	395.32	504.02
377.17	383.02	383.32	542.72	389.63	422.95	395.40	549.22
377.25	552.23	383.40	602.25	389.71	604.37	395.55	309.57
377.33	425.42	383.48	607.54	389.79	503.55	395.63	422.56
377.40	514.22	383.56	613.86	389.87	433.46	395.79	561.52
377.48	474.87	383.63	441.60	389.94	644.77	395.86	654.46
377.64	561.64	383.71	408.06	390.10	606.83	395.94	650.90
377.71	502.97	383.87	393.30	390.18	299.61	396.02	479.01
377.95	430.33	383.95	593.83	390.33	498.42	396.10	457.68
378.03	642.70	384.10	519.61	390.41	426.05	396.18	329.48
378.10	574.58	384.18	572.47	390.49	450.22	396.33	585.96
378.18	395.14	384.26	523.78	390.57	546.98	396.41	425.43
378.26	374.99	384.34	400.84	390.65	556.04	396.56	497.93
378.42	381.49	384.41	494.20	390.72	597.74	396.64	555.09
378.49	578.25	384.49	621.06	390.88	509.46	396.72	593.12
378.65	494.33	384.65	395.09	390.96	355.74	396.80	549.84
378.73	499.43	384.88	350.29	391.11	633.85	396.88	623.77
378.81	576.96	384.96	506.05	391.19	470.42	396.95	481.66
378.88	526.76	385.04	552.41	391.27	385.97	397.11	388.30
378.96	500.23	385.11	593.90	391.35	524.74	397.19	535.67
379.04	522.93	385.19	498.65	391.42	562.83	397.34	565.82
379.19	556.00	385.27	473.18	391.50	381.75	397.42	598.55
379.27	322.83	385.43	465.82	391.66	529.88	397.50	387.00
379.43	417.67	385.50	554.47	391.74	622.11	397.58	526.54
379.51	683.74	385.66	531.69	391.89	515.58	397.66	566.13
379.58	408.38	385.74	524.71	391.97	421.61	397.73	583.14
379.66	405.97	385.82	706.91	392.05	412.86	397.97	453.24
379.74	658.59	385.89	386.42	392.12	316.98	398.12	431.21
379.82	511.45	385.97	427.49	392.20	528.41	398.20	505.36
379.97	505.25	386.28	464.42	392.28	469.67	398.28	418.66
380.21	496.33	386.44	436.01	392.44	510.15	398.36	422.87
380.29	496.87	386.52	533.19	392.51	454.54	398.43	420.10
380.36	554.02	386.59	482.36	392.67	455.36	398.51	605.85
380.44	465.47	386.67	618.71	392.75	512.42	398.67	476.85
380.52	695.64	386.75	516.96	392.83	651.47	398.75	527.25
380.75	593.36	386.83	582.91	392.90	501.70	398.90	592.56
380.83	427.88	386.98	540.03	392.98	664.92	398.98	430.88
380.99	495.74	387.06	582.60	393.06	418.69	399.06	527.49
381.06	514.41	387.22	670.92	393.22	483.72	399.14	476.25
381.14	541.59	387.30	480.16	393.29	548.47	399.21	573.08
381.22	543.27	387.37	431.02	393.45	606.12	399.29	585.71
381.30	679.13	387.45	574.96	393.53	438.16	399.45	440.62
381.38	619.38	387.53	675.92	393.60	441.04	399.52	624.02
381.53	473.74	387.61	652.37	393.68	421.89	399.68	599.86
381.61	716.79	387.76	578.91	393.76	573.36	399.76	443.97
381.77	617.69	387.84	581.37	393.84	533.98	399.84	414.85
381.84	493.73	388.07	416.07	393.99	380.29	399.91	508.00
381.92	368.87	388.15	508.29	394.07	427.88	399.99	364.48
382.00	413.54	388.23	451.92	394.23	503.68	400.07	626.44
382.08	388.30	388.31	489.71	394.31	387.20	400.23	495.95
382.15	464.23	388.39	376.10	394.38	537.69	400.30	591.44
382.31	454.41	388.54	723.80	394.46	620.01	400.46	489.73
382.39	400.33	388.62	613.39	394.54	487.22	400.54	693.49
382.54	543.57	388.78	566.57	394.62	557.88	400.62	634.14
382.62	567.53	388.85	423.81	394.77	322.10	400.69	525.99
382.70	634.22	388.93	491.49	394.85	614.50	400.77	352.95
382.78	463.89	389.01	437.96	395.01	506.31	400.85	456.09
382.86	470.13	389.09	613.69	395.08	633.20	401.00	523.42
382.93	409.46	389.17	488.31	395.16	473.06	401.08	677.60
383.09	480.78	389.32	555.84	395.24	521.20	401.24	507.95

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
401.32	424.88	407.55	608.30	413.55	407.09	419.54	543.29
401.39	463.51	407.63	667.46	413.70	465.43	419.70	540.89
401.47	445.74	407.70	502.69	413.78	468.00	419.78	518.90
401.55	461.88	407.78	470.08	413.86	490.82	419.93	517.80
401.63	656.96	408.02	475.52	413.94	508.73	420.01	442.79
401.78	551.90	408.09	585.64	414.01	585.97	420.09	581.90
401.86	507.75	408.25	413.42	414.09	591.03	420.17	499.41
402.02	541.70	408.33	479.78	414.25	434.69	420.24	361.17
402.10	396.57	408.40	361.66	414.32	562.58	420.32	542.91
402.17	403.06	408.48	686.58	414.48	591.37	420.48	490.95
402.25	586.57	408.56	636.55	414.56	370.84	420.56	357.78
402.33	516.76	408.64	571.15	414.64	400.01	420.71	470.97
402.56	422.00	408.79	454.87	414.71	600.58	420.79	529.09
402.64	497.70	408.87	632.44	414.79	356.74	420.87	379.87
402.80	282.68	409.03	603.01	415.03	487.99	420.95	385.23
402.87	553.66	409.11	435.11	415.10	436.89	421.02	439.91
402.95	475.24	409.18	542.49	415.26	512.31	421.10	481.55
403.03	427.16	409.26	503.33	415.34	462.32	421.26	387.09
403.11	543.62	409.34	503.42	415.42	503.58	421.34	591.65
403.19	568.46	409.42	552.47	415.49	614.33	421.49	414.44
403.34	570.07	409.57	358.34	415.57	491.55	421.57	560.78
403.42	543.27	409.65	592.90	415.65	495.22	421.65	437.11
403.58	440.64	409.81	424.97	415.80	577.32	421.72	469.96
403.65	637.05	409.88	497.91	415.88	595.53	421.80	467.36
403.73	382.61	409.96	444.85	416.04	476.24	421.88	570.03
403.81	511.32	410.04	427.84	416.12	404.75	422.04	411.84
403.89	463.22	410.12	434.37	416.19	419.81	422.11	543.19
403.96	462.15	410.20	357.27	416.27	357.86	422.27	671.69
404.12	501.93	410.35	471.05	416.35	572.21	422.35	445.35
404.20	545.47	410.43	520.93	416.43	434.01	422.43	543.07
404.35	463.79	410.59	527.43	416.58	633.14	422.50	468.90
404.43	625.37	410.66	457.48	416.66	480.55	422.58	423.77
404.51	543.81	410.74	387.43	416.82	367.96	422.66	490.93
404.59	460.41	410.82	416.43	416.90	385.48	422.82	601.42
404.67	302.24	410.90	363.70	416.97	404.27	422.89	435.54
404.74	423.66	410.98	563.32	417.05	405.33	423.05	423.85
404.90	389.00	411.13	309.48	417.13	404.62	423.13	606.01
405.13	771.84	411.21	404.84	417.21	358.33	423.20	579.34
405.21	434.37	411.36	520.44	417.36	608.82	423.28	445.21
405.29	441.81	411.44	590.82	417.44	351.60	423.36	563.97
405.44	562.30	411.52	450.00	417.60	533.22	423.59	465.24
405.52	607.39	411.60	423.43	417.67	528.07	423.67	359.35
405.76	608.82	411.68	387.88	417.75	486.88	423.83	500.87
405.91	448.41	411.75	630.84	417.83	481.88	423.91	527.45
405.99	552.60	411.91	523.91	417.91	429.25	423.98	374.45
406.07	477.74	411.99	438.64	417.99	601.71	424.06	516.16
406.15	574.61	412.14	413.03	418.14	401.02	424.14	415.64
406.22	560.89	412.22	405.97	418.22	379.09	424.22	481.78
406.30	591.66	412.30	387.44	418.38	297.30	424.37	418.08
406.46	352.08	412.38	659.08	418.45	634.37	424.45	602.25
406.54	631.11	412.46	505.55	418.53	396.47	424.61	638.75
406.69	679.13	412.53	590.66	418.61	585.52	424.68	583.02
406.77	266.42	412.69	334.43	418.69	485.33	424.76	614.18
406.85	662.48	412.77	508.01	418.76	546.23	424.84	585.12
406.92	453.35	412.92	336.96	418.92	500.87	424.92	301.07
407.00	434.28	413.00	426.20	419.00	605.21	425.00	538.41
407.08	502.30	413.08	469.18	419.15	583.21	425.15	595.41
407.24	330.53	413.16	396.93	419.23	564.57	425.23	389.73
407.31	613.62	413.23	381.83	419.31	396.02	425.39	380.78
407.47	478.05	413.47	508.82	419.39	441.37	425.46	494.20

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
425.54	638.45	431.46	639.24	437.30	366.99	443.15	464.68
425.62	411.48	431.62	470.48	437.38	417.73	443.30	511.39
425.70	626.21	431.70	556.67	437.46	424.32	443.38	369.76
425.78	627.51	431.77	361.09	437.61	433.44	443.46	625.60
425.93	591.04	431.85	517.60	437.69	525.12	443.53	518.61
426.01	529.45	431.93	282.18	437.85	364.70	443.61	472.80
426.16	501.16	432.01	580.14	437.93	535.08	443.69	583.93
426.24	490.59	432.16	513.17	438.00	553.83	443.85	493.03
426.32	354.46	432.24	420.98	438.08	607.70	443.92	522.12
426.40	349.23	432.40	491.46	438.16	441.99	444.08	578.49
426.48	584.16	432.47	392.96	438.24	538.73	444.16	440.39
426.55	417.22	432.55	437.03	438.39	638.47	444.24	560.05
426.71	555.90	432.63	628.68	438.47	372.96	444.31	515.35
426.79	498.74	432.71	531.15	438.63	552.60	444.39	483.93
426.94	364.70	432.79	456.91	438.71	446.87	444.47	681.19
427.02	559.47	432.94	554.35	438.78	605.21	444.63	477.59
427.10	422.00	433.02	544.34	438.86	552.27	444.70	494.01
427.18	320.66	433.17	532.21	438.94	680.86	444.86	485.46
427.26	560.36	433.25	574.38	439.02	516.83	444.94	597.43
427.33	561.86	433.33	659.22	439.17	371.35	445.01	590.41
427.49	404.44	433.41	370.62	439.25	650.28	445.09	584.21
427.72	574.33	433.49	645.32	439.41	402.38	445.17	573.95
427.80	436.68	433.56	612.37	439.48	517.52	445.25	650.31
427.88	620.34	433.72	611.59	439.56	465.72	445.40	377.58
427.96	598.31	433.80	478.72	439.64	471.83	445.48	622.78
428.03	566.66	433.95	625.61	439.72	636.55	445.64	513.99
428.11	505.77	434.03	484.40	439.80	594.87	445.72	432.53
428.27	485.65	434.11	444.69	439.95	465.93	445.79	453.39
428.35	453.79	434.19	430.84	440.03	543.72	445.87	290.13
428.50	591.38	434.27	500.20	440.19	684.21	445.95	488.04
428.58	538.82	434.34	469.42	440.26	414.61	446.03	478.68
428.66	517.41	434.50	498.14	440.34	373.75	446.18	582.58
428.74	316.33	434.58	660.13	440.42	380.36	446.26	349.91
428.81	692.01	434.73	721.69	440.50	372.86	446.42	480.50
428.89	584.86	434.81	475.03	440.57	515.40	446.49	482.47
429.05	368.99	434.89	469.01	440.73	527.34	446.57	481.85
429.12	587.07	434.97	451.01	440.81	490.89	446.65	566.57
429.28	497.57	435.04	530.03	440.96	369.23	446.73	692.57
429.36	469.93	435.12	539.50	441.04	612.73	446.81	595.76
429.44	588.29	435.28	579.87	441.12	431.57	446.96	673.21
429.51	326.83	435.36	434.74	441.20	476.95	447.04	542.34
429.59	511.00	435.51	601.10	441.28	405.26	447.20	517.98
429.67	490.90	435.59	457.64	441.35	560.96	447.27	485.60
429.83	457.61	435.67	435.23	441.51	377.47	447.35	424.02
429.90	515.17	435.75	514.64	441.59	560.89	447.43	469.89
430.06	515.38	435.82	633.05	441.74	622.73	447.51	312.10
430.14	478.49	435.90	543.88	441.82	493.66	447.59	364.57
430.22	424.63	436.06	592.48	441.90	433.10	447.74	464.62
430.29	357.75	436.13	661.97	441.98	642.87	447.82	271.69
430.37	366.17	436.29	516.08	442.05	575.77	447.97	579.20
430.45	513.33	436.37	471.36	442.13	332.92	448.05	660.14
430.60	545.54	436.45	661.97	442.29	341.46	448.13	445.91
430.68	534.26	436.52	352.77	442.37	626.60	448.21	414.95
430.84	576.51	436.60	484.45	442.52	438.09	448.29	531.41
430.92	607.85	436.68	453.91	442.60	510.38	448.36	557.98
430.99	492.35	436.84	390.26	442.68	396.22	448.52	601.60
431.07	417.79	436.91	488.83	442.76	771.84	448.60	517.82
431.15	372.96	437.07	580.59	442.83	588.69	448.75	330.12
431.23	605.55	437.15	489.23	442.91	422.95	448.83	497.65
431.38	443.47	437.23	442.97	443.07	545.10	448.91	524.76



PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
448.99	517.61	454.83	463.07	460.75	426.41	466.67	498.86
449.07	412.36	454.99	616.98	460.83	566.98	466.75	423.69
449.14	551.10	455.06	626.92	460.98	548.42	466.83	503.55
449.30	736.52	455.14	551.31	461.06	566.21	466.90	622.86
449.38	543.23	455.22	529.05	461.22	545.36	466.98	528.88
449.53	453.17	455.30	383.40	461.29	435.99	467.06	365.04
449.61	542.29	455.53	460.22	461.37	345.57	467.21	484.74
449.69	581.21	455.61	540.31	461.45	533.14	467.29	464.95
449.77	519.48	455.76	572.01	461.53	376.77	467.45	504.95
449.84	407.60	455.84	505.71	461.61	507.86	467.53	406.33
449.92	557.49	455.92	703.04	461.76	513.56	467.60	460.47
450.08	465.29	456.00	583.17	461.84	424.62	467.68	521.65
450.16	504.88	456.08	611.85	462.00	544.93	467.76	453.62
450.31	445.42	456.15	635.69	462.07	397.40	467.84	450.74
450.39	620.17	456.31	640.10	462.15	539.24	467.99	604.46
450.47	560.29	456.39	477.24	462.23	484.82	468.07	483.33
450.55	448.16	456.54	557.70	462.31	543.21	468.23	588.15
450.62	520.40	456.62	508.62	462.39	315.45	468.31	577.50
450.70	575.84	456.70	657.47	462.54	565.58	468.38	661.73
450.86	427.16	456.78	433.33	462.62	441.68	468.46	352.82
450.93	593.34	456.85	637.91	462.77	539.14	468.54	569.23
451.09	425.46	456.93	503.34	462.85	444.00	468.62	432.85
451.17	391.97	457.09	577.74	462.93	613.80	468.77	423.52
451.25	509.19	457.17	390.98	463.01	444.22	468.85	603.34
451.32	637.65	457.32	426.24	463.09	536.83	469.01	636.55
451.40	413.76	457.40	378.47	463.16	590.94	469.08	558.07
451.48	485.13	457.48	426.98	463.32	516.64	469.16	525.97
451.64	406.97	457.56	575.77	463.40	415.50	469.24	383.28
451.71	376.20	457.63	318.79	463.55	624.15	469.32	681.60
451.87	444.47	457.71	395.10	463.63	624.96	469.40	317.91
451.95	493.82	457.87	476.08	463.71	335.10	469.55	617.63
452.03	568.13	457.95	498.08	463.79	322.83	469.63	556.77
452.10	616.87	458.10	534.73	463.87	601.36	469.79	589.02
452.18	372.00	458.18	371.07	463.94	494.28	469.86	638.74
452.26	530.74	458.26	562.00	464.10	527.04	469.94	451.10
452.41	536.62	458.33	593.83	464.18	347.14	470.02	602.04
452.49	508.18	458.41	492.19	464.33	460.71	470.10	666.01
452.65	465.19	458.49	581.35	464.41	441.18	470.17	382.60
452.73	461.93	458.65	475.28	464.49	542.15	470.33	441.94
452.80	366.17	458.72	688.76	464.57	223.62	470.41	448.17
452.88	382.58	458.88	708.00	464.64	506.16	470.56	698.12
452.96	453.50	458.96	448.29	464.72	376.58	470.64	511.39
453.04	664.19	459.04	519.81	464.88	616.63	470.72	432.88
453.19	375.25	459.11	534.76	464.96	571.73	470.80	411.34
453.27	532.09	459.19	591.36	465.11	531.17	470.88	362.17
453.43	443.77	459.27	277.89	465.19	571.09	470.95	543.75
453.51	684.13	459.43	519.13	465.27	476.30	471.11	349.22
453.58	293.14	459.50	367.26	465.35	459.46	471.19	649.52
453.66	561.41	459.66	549.06	465.42	599.03	471.34	437.11
453.74	377.33	459.74	407.41	465.50	476.72	471.42	358.74
453.82	570.12	459.81	601.28	465.66	373.97	471.50	470.96
453.97	391.94	459.89	565.88	465.73	453.57	471.58	444.96
454.05	317.04	459.97	470.52	465.89	427.22	471.65	632.86
454.21	468.00	460.05	484.96	465.97	383.88	471.73	377.40
454.28	532.29	460.20	374.34	466.05	322.99	471.89	360.08
454.36	428.57	460.28	360.94	466.12	696.54	471.97	421.21
454.44	396.05	460.44	380.13	466.20	459.37	472.12	438.87
454.52	320.42	460.52	611.55	466.28	511.16	472.20	591.90
454.60	441.89	460.59	528.27	466.44	571.25	472.28	500.69
454.75	583.88	460.67	434.62	466.51	456.05	472.36	610.59

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
472.43	299.61	478.35	331.56	484.12	460.96	490.04	521.62
472.51	654.62	478.43	450.08	484.20	642.13	490.12	621.43
472.67	408.95	478.51	255.07	484.35	491.97	490.19	547.72
472.75	492.48	478.59	529.64	484.43	661.73	490.27	393.78
472.90	532.95	478.66	367.15	484.58	488.58	490.35	573.24
472.98	458.78	478.74	529.49	484.66	717.58	490.43	528.72
473.06	465.20	478.90	507.80	484.74	609.10	490.58	665.13
473.13	411.76	478.98	299.28	484.82	468.85	490.66	385.23
473.21	405.97	479.13	461.40	484.90	585.96	490.82	598.81
473.29	710.77	479.21	685.08	484.97	435.00	490.89	444.53
473.45	442.03	479.29	434.74	485.13	479.37	490.97	528.18
473.52	469.89	479.37	492.58	485.21	338.25	491.05	562.31
473.68	457.67	479.44	552.07	485.36	484.37	491.13	395.64
473.76	518.77	479.52	330.90	485.44	695.38	491.21	345.42
473.84	374.19	479.68	475.61	485.52	560.25	491.36	338.25
473.91	449.73	479.76	497.27	485.60	763.19	491.44	551.38
473.99	273.83	479.91	259.97	485.68	487.01	491.60	535.48
474.07	448.14	479.99	591.65	485.75	680.57	491.67	509.75
474.23	656.94	480.07	519.65	485.91	613.72	491.75	493.73
474.30	521.37	480.14	483.82	485.99	694.12	491.83	590.48
474.46	644.39	480.22	523.62	486.14	490.45	491.91	621.14
474.54	442.66	480.30	571.30	486.22	415.87	491.98	389.96
474.61	384.68	480.46	469.61	486.30	501.90	492.14	564.33
474.69	394.61	480.53	465.40	486.38	370.67	492.22	338.25
474.77	490.47	480.69	516.04	486.45	526.70	492.37	544.80
474.85	440.58	480.77	306.86	486.53	539.36	492.45	461.37
475.00	489.16	480.85	507.18	486.69	414.44	492.53	499.16
475.08	366.86	480.92	472.53	486.77	453.57	492.61	463.86
475.24	497.75	481.00	521.13	486.92	503.26	492.69	547.52
475.32	479.33	481.08	376.25	487.00	444.43	492.76	454.94
475.39	410.20	481.24	432.53	487.08	415.35	492.92	561.11
475.47	636.55	481.31	371.04	487.16	485.27	493.00	631.88
475.55	476.61	481.47	373.89	487.23	634.37	493.15	497.34
475.63	518.76	481.55	390.85	487.31	475.25	493.23	456.37
475.78	455.88	481.62	434.85	487.47	541.87	493.31	516.46
475.86	413.79	481.70	585.19	487.54	601.90	493.39	529.76
476.02	495.85	481.78	513.84	487.70	374.08	493.46	413.55
476.09	348.76	481.86	498.70	487.78	679.13	493.54	424.11
476.17	653.84	482.01	551.00	487.86	500.27	493.70	550.83
476.25	584.64	482.09	475.24	487.93	457.69	493.78	615.89
476.33	498.46	482.25	378.46	488.01	502.51	493.93	526.56
476.41	626.77	482.33	614.78	488.09	483.31	494.01	390.06
476.56	495.50	482.40	557.98	488.25	423.20	494.09	435.97
476.64	436.67	482.48	561.15	488.32	686.15	494.17	325.63
476.80	526.91	482.56	400.42	488.48	559.10	494.24	436.68
476.87	477.39	482.64	578.24	488.56	521.20	494.32	411.84
476.95	552.90	482.79	443.85	488.64	615.46	494.48	561.24
477.03	533.28	482.87	623.76	488.71	348.43	494.56	589.31
477.11	539.96	483.03	397.24	488.79	434.80	494.71	483.05
477.18	476.19	483.10	492.68	488.87	502.98	494.79	529.48
477.34	443.45	483.18	425.02	489.02	388.49	494.87	438.41
477.42	394.48	483.26	367.56	489.10	545.51	494.94	586.91
477.57	520.47	483.34	412.04	489.26	493.17	495.02	362.10
477.65	453.58	483.42	421.86	489.34	431.72	495.10	508.70
477.73	450.07	483.57	543.72	489.41	456.72	495.26	414.47
477.81	481.96	483.65	472.12	489.49	364.70	495.33	511.84
477.89	422.35	483.81	522.07	489.57	388.35	495.49	395.20
477.96	455.56	483.88	578.21	489.65	360.53	495.57	522.13
478.12	473.55	483.96	522.99	489.80	447.75	495.65	661.73
478.20	472.04	484.04	316.15	489.88	410.89	495.72	477.82

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
495.80	581.68	501.72	705.26	507.49	665.34	513.41	302.24
495.88	522.30	501.80	655.07	507.56	517.35	513.48	550.36
496.04	604.70	501.88	470.94	507.72	449.13	513.56	323.64
496.11	592.57	501.96	490.52	507.80	441.43	513.64	542.81
496.27	395.42	502.03	292.35	507.95	520.15	513.72	436.58
496.35	444.91	502.11	408.77	508.03	502.99	513.80	425.53
496.42	607.42	502.27	363.06	508.11	619.37	513.95	531.86
496.50	476.76	502.34	597.50	508.19	556.72	514.03	358.34
496.58	467.44	502.50	591.97	508.26	599.14	514.18	539.44
496.66	432.66	502.58	434.74	508.34	498.04	514.26	469.30
496.81	441.17	502.66	404.54	508.50	349.83	514.34	332.84
496.89	342.06	502.73	599.78	508.58	333.17	514.42	554.54
497.05	580.33	502.81	351.26	508.73	415.99	514.50	463.97
497.13	546.60	502.89	449.90	508.81	423.06	514.57	597.91
497.20	627.03	503.05	503.32	508.89	612.37	514.73	691.61
497.28	597.71	503.12	320.80	508.97	392.76	514.81	458.44
497.36	507.79	503.28	619.05	509.04	468.35	514.96	561.67
497.44	603.59	503.36	571.39	509.12	353.14	515.04	565.26
497.59	351.31	503.44	571.95	509.28	567.28	515.12	577.50
497.67	499.16	503.51	520.74	509.36	558.92	515.20	553.99
497.83	658.94	503.59	578.81	509.51	571.30	515.28	418.86
497.90	430.24	503.67	402.69	509.59	447.15	515.35	418.19
497.98	576.96	503.82	528.62	509.67	472.45	515.51	404.39
498.06	489.49	503.90	511.85	509.74	494.46	515.59	539.14
498.14	459.09	504.06	405.07	509.82	331.66	515.74	554.45
498.22	462.15	504.14	546.27	509.90	436.86	515.82	475.47
498.37	439.28	504.21	529.14	510.06	438.49	515.90	571.06
498.45	526.09	504.29	544.88	510.13	303.43	515.98	540.62
498.61	409.71	504.37	560.89	510.29	690.60	516.05	495.27
498.68	562.52	504.45	638.95	510.37	607.39	516.13	504.87
498.76	629.32	504.60	451.54	510.45	466.55	516.29	524.56
498.84	455.26	504.68	482.51	510.52	375.01	516.37	552.26
498.92	507.64	504.84	518.27	510.60	579.40	516.52	516.02
499.00	516.87	504.92	577.99	510.68	589.14	516.60	390.55
499.15	537.07	504.99	495.80	510.84	645.19	516.68	579.46
499.23	356.92	505.07	343.44	510.91	558.20	516.75	492.39
499.38	561.78	505.15	643.93	511.07	634.37	516.83	482.45
499.46	354.13	505.23	474.73	511.15	451.98	516.91	721.69
499.54	443.05	505.38	438.96	511.22	545.17	517.07	407.84
499.62	377.15	505.46	492.53	511.30	536.47	517.14	406.27
499.70	509.43	505.62	471.83	511.38	577.60	517.30	746.42
499.77	440.82	505.69	387.72	511.46	377.72	517.38	501.19
499.93	395.85	505.77	474.05	511.61	542.19	517.46	449.25
500.01	486.57	505.85	296.08	511.69	395.41	517.53	480.54
500.16	327.03	505.93	611.32	511.85	359.98	517.61	289.85
500.24	479.28	506.01	693.49	511.93	370.25	517.69	364.67
500.32	561.52	506.16	551.02	512.00	315.45	517.85	565.26
500.40	441.99	506.24	552.27	512.08	247.96	517.92	504.42
500.48	346.53	506.40	495.83	512.16	477.44	518.08	338.25
500.55	509.79	506.47	557.45	512.24	532.14	518.16	335.59
500.71	578.15	506.55	560.18	512.39	486.90	518.23	592.67
500.79	425.70	506.63	569.98	512.47	343.25	518.31	469.44
500.94	545.25	506.71	568.20	512.63	546.69	518.39	519.73
501.02	599.03	506.78	684.86	512.70	544.36	518.47	492.34
501.10	475.06	506.94	609.85	512.78	415.23	518.62	474.91
501.18	660.02	507.02	417.01	512.86	422.53	518.70	575.78
501.25	575.78	507.17	593.03	512.94	486.23	518.86	426.70
501.33	453.12	507.25	577.38	513.02	484.93	518.94	416.72
501.49	424.74	507.33	376.12	513.17	460.14	519.01	407.48
501.57	509.30	507.41	622.34	513.25	372.27	519.09	528.46

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
519.17	535.82	525.09	490.87	530.85	653.46	536.77	628.10
519.25	559.16	525.17	570.98	530.93	402.07	536.85	430.53
519.40	576.37	525.25	617.18	531.09	427.56	536.93	586.49
519.48	240.86	525.32	351.45	531.17	432.29	537.01	479.91
519.64	349.81	525.40	656.69	531.32	534.69	537.09	539.05
519.71	531.80	525.48	466.00	531.40	503.27	537.16	459.87
519.79	450.79	525.63	515.40	531.48	582.31	537.32	315.45
519.87	535.82	525.71	362.76	531.55	619.36	537.40	450.44
519.95	445.89	525.87	514.59	531.63	570.13	537.55	307.00
520.03	395.42	525.95	495.22	531.71	506.96	537.63	401.47
520.18	638.70	526.02	525.17	531.87	333.41	537.71	299.17
520.26	528.27	526.10	459.87	531.94	385.55	537.79	374.04
520.42	569.94	526.18	387.51	532.10	517.52	537.86	575.24
520.49	479.49	526.26	609.10	532.18	331.56	537.94	589.14
520.57	475.52	526.41	393.43	532.26	490.27	538.10	359.23
520.65	605.36	526.49	570.02	532.33	456.27	538.18	469.17
520.73	462.60	526.65	428.28	532.41	424.67	538.33	443.30
520.81	478.04	526.73	490.02	532.49	542.30	538.41	587.46
520.96	448.28	526.80	442.09	532.65	525.72	538.49	554.68
521.04	489.61	526.88	569.39	532.72	467.63	538.57	405.27
521.19	455.45	526.96	615.70	532.88	514.11	538.64	721.69
521.27	470.04	527.04	352.85	532.96	549.27	538.72	364.70
521.35	442.50	527.19	453.20	533.03	237.84	538.88	666.95
521.43	558.57	527.27	486.22	533.11	592.78	538.95	561.25
521.51	457.98	527.43	445.63	533.19	418.15	539.11	442.40
521.58	428.04	527.50	442.96	533.27	548.38	539.19	679.13
521.74	408.95	527.58	632.86	533.42	426.04	539.27	444.83
521.82	499.27	527.66	426.25	533.50	460.09	539.34	477.53
521.97	437.75	527.74	640.30	533.66	410.89	539.42	523.22
522.05	556.40	527.82	462.32	533.74	579.89	539.50	501.53
522.13	469.66	527.97	485.85	533.81	582.48	539.66	626.32
522.21	622.79	528.05	484.18	533.89	646.03	539.73	647.59
522.29	427.84	528.21	394.53	533.97	639.10	539.89	485.11
522.36	441.99	528.28	484.74	534.05	549.06	539.97	423.16
522.52	599.84	528.36	585.79	534.20	546.27	540.05	624.10
522.60	540.65	528.44	640.92	534.28	525.55	540.12	493.73
522.75	512.36	528.52	486.60	534.44	530.79	540.20	563.29
522.83	637.24	528.59	197.17	534.51	354.03	540.28	370.77
522.91	519.42	528.75	488.72	534.59	618.87	540.43	571.93
522.99	381.41	528.83	441.81	534.67	427.88	540.51	351.33
523.06	362.42	528.98	516.90	534.75	499.76	540.67	457.98
523.14	424.24	529.06	539.02	534.83	513.10	540.75	516.53
523.30	564.51	529.14	640.30	534.98	615.70	540.82	607.39
523.38	605.68	529.22	372.27	535.06	469.30	540.90	344.77
523.53	446.62	529.30	485.03	535.22	539.59	540.98	343.44
523.61	398.44	529.37	476.32	535.29	650.14	541.06	457.09
523.69	656.24	529.53	487.47	535.37	504.07	541.21	660.21
523.77	478.83	529.61	405.97	535.45	411.78	541.29	424.30
523.84	415.03	529.76	510.46	535.53	477.79	541.45	518.97
523.92	401.39	529.84	416.54	535.61	487.56	541.53	333.00
524.08	683.08	529.92	679.13	535.76	630.26	541.60	407.12
524.15	567.97	530.00	591.39	535.84	467.46	541.68	595.16
524.31	364.17	530.07	367.42	535.99	536.72	541.76	315.70
524.39	535.74	530.15	567.10	536.07	612.84	541.84	484.53
524.47	449.73	530.31	460.10	536.15	597.96	541.99	643.78
524.54	554.57	530.39	410.41	536.23	453.66	542.07	422.95
524.62	574.70	530.54	648.89	536.31	601.59	542.23	437.60
524.70	325.61	530.62	326.23	536.38	437.96	542.30	564.49
524.86	612.09	530.70	640.30	536.54	389.58	542.38	501.36
524.93	469.61	530.78	501.18	536.62	402.74	542.46	422.56

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
542.54	493.67	548.46	429.97	554.22	472.75	560.14	452.60
542.62	413.98	548.54	314.18	554.30	486.56	560.22	527.34
542.77	559.66	548.61	425.91	554.46	398.19	560.30	661.97
542.85	514.71	548.69	486.68	554.53	484.94	560.38	613.19
543.01	357.75	548.77	595.13	554.69	500.03	560.45	399.98
543.08	655.85	548.85	509.53	554.77	510.12	560.53	654.76
543.16	515.11	549.00	352.29	554.85	363.77	560.69	423.16
543.24	447.13	549.08	464.57	554.92	626.16	560.76	558.87
543.32	349.23	549.24	482.07	555.00	530.51	560.92	504.10
543.39	364.35	549.31	399.02	555.08	406.26	561.00	529.07
543.55	476.95	549.39	538.09	555.23	643.46	561.08	493.73
543.63	577.70	549.47	505.24	555.31	470.51	561.15	611.06
543.78	581.69	549.55	384.82	555.47	612.22	561.23	600.70
543.86	436.01	549.63	513.95	555.55	408.72	561.31	484.29
543.94	506.90	549.78	694.04	555.62	540.30	561.47	479.84
544.02	522.81	549.86	586.51	555.70	511.06	561.54	655.67
544.10	593.84	550.02	677.31	555.78	583.44	561.70	349.98
544.17	365.18	550.09	395.85	555.86	489.02	561.78	480.61
544.33	627.13	550.17	523.04	556.01	459.95	561.86	496.37
544.41	381.19	550.25	362.42	556.09	554.12	561.93	542.00
544.56	619.83	550.33	621.43	556.25	518.09	562.01	590.57
544.64	460.88	550.41	608.66	556.33	478.09	562.09	423.56
544.72	458.95	550.56	624.15	556.40	498.83	562.24	380.66
544.80	378.71	550.64	475.49	556.48	383.02	562.32	433.97
544.87	549.08	550.79	542.63	556.56	571.73	562.48	559.26
544.95	448.94	550.87	533.25	556.64	448.11	562.56	451.32
545.11	457.23	550.95	555.44	556.79	454.30	562.63	358.34
545.19	592.22	551.03	489.54	556.87	329.40	562.71	592.99
545.34	506.71	551.11	542.92	557.03	564.12	562.79	397.24
545.42	386.86	551.18	431.21	557.10	340.56	562.87	722.61
545.50	402.74	551.34	444.65	557.18	458.68	563.02	410.01
545.58	382.36	551.42	463.70	557.26	429.92	563.10	571.07
545.65	605.16	551.57	519.28	557.34	446.76	563.26	550.10
545.73	407.72	551.65	597.71	557.42	382.80	563.34	361.99
545.89	424.82	551.73	446.36	557.57	556.82	563.41	698.08
545.97	563.30	551.81	291.89	557.65	536.89	563.49	641.70
546.12	560.37	551.89	378.24	557.81	436.03	563.57	485.96
546.20	455.56	551.96	521.34	557.88	372.11	563.65	515.75
546.28	428.00	552.12	373.71	557.96	511.41	563.80	473.95
546.35	465.93	552.20	447.56	558.04	470.30	563.88	461.27
546.43	559.38	552.35	486.45	558.12	419.27	564.04	367.40
546.51	683.57	552.43	632.30	558.19	442.40	564.11	415.00
546.67	530.21	552.51	597.02	558.35	508.96	564.19	565.28
546.74	533.81	552.59	299.61	558.43	574.40	564.27	439.83
546.90	562.30	552.66	280.53	558.58	532.86	564.35	472.86
546.98	433.74	552.74	526.89	558.66	507.15	564.43	290.87
547.06	314.31	552.90	672.03	558.74	535.18	564.58	366.05
547.13	547.83	552.98	358.14	558.82	449.68	564.66	393.78
547.21	395.85	553.13	541.67	558.90	457.93	564.82	543.72
547.29	551.88	553.21	480.35	558.97	413.42	564.89	567.73
547.45	650.97	553.29	536.62	559.13	506.73	564.97	544.76
547.52	551.82	553.37	515.17	559.21	638.95	565.05	526.42
547.68	521.16	553.44	494.78	559.36	409.93	565.13	382.35
547.76	409.44	553.52	532.53	559.44	407.94	565.20	422.03
547.83	457.93	553.68	355.46	559.52	441.67	565.36	559.16
547.91	490.77	553.75	497.30	559.60	402.43	565.44	387.98
547.99	427.88	553.91	574.79	559.67	517.68	565.59	408.15
548.07	478.54	553.99	405.45	559.75	411.68	565.67	456.73
548.22	389.68	554.07	443.34	559.91	550.29	565.75	455.85
548.30	455.53	554.14	435.95	559.99	669.85	565.83	544.29

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
565.91	429.58	571.90	577.21	577.67	490.43	583.59	524.97
565.98	411.30	571.98	552.09	577.82	326.91	583.67	428.03
566.14	398.55	572.06	503.04	577.90	494.19	583.74	255.67
566.22	511.39	572.14	267.41	578.06	487.29	583.82	572.26
566.37	396.07	572.22	422.72	578.14	570.28	583.90	619.73
566.45	391.43	572.37	550.20	578.21	636.91	584.06	455.52
566.53	491.82	572.45	347.23	578.29	610.35	584.13	405.74
566.61	450.77	572.60	283.71	578.37	443.91	584.29	614.40
566.68	447.56	572.68	579.35	578.45	536.28	584.37	609.33
566.76	291.88	572.76	541.41	578.60	379.46	584.44	450.85
566.92	500.33	572.84	427.88	578.68	553.35	584.52	516.97
567.15	333.20	572.92	534.06	578.84	667.89	584.60	612.14
567.23	359.58	572.99	466.60	578.91	393.55	584.68	550.26
567.31	371.77	573.15	383.80	578.99	519.83	584.83	660.95
567.39	665.97	573.23	587.49	579.07	496.82	584.91	560.36
567.46	545.54	573.38	483.86	579.15	437.82	585.07	495.25
567.54	471.15	573.46	470.35	579.23	588.47	585.15	609.24
567.70	582.65	573.54	437.76	579.38	389.97	585.22	370.67
567.78	461.75	573.62	343.77	579.46	463.35	585.30	588.29
567.93	557.15	573.70	564.68	579.62	567.72	585.38	640.26
568.01	509.11	573.77	406.76	579.69	481.06	585.46	350.76
568.09	536.90	573.93	557.89	579.77	445.89	585.61	489.14
568.16	486.77	574.01	562.00	579.85	417.12	585.69	546.12
568.24	533.06	574.16	509.31	579.93	550.88	585.85	557.20
568.32	474.68	574.24	696.94	580.00	487.04	585.92	523.28
568.48	477.54	574.32	366.17	580.16	626.86	586.00	341.46
568.55	615.27	574.40	588.01	580.24	518.56	586.08	569.04
568.71	377.13	574.47	449.11	580.39	495.33	586.16	667.23
568.79	514.42	574.55	519.95	580.47	552.27	586.24	474.79
568.87	536.09	574.71	560.60	580.55	538.10	586.39	669.70
568.94	326.33	574.79	565.22	580.63	522.89	586.47	561.96
569.02	578.61	574.94	533.76	580.71	338.25	586.63	453.17
569.10	511.01	575.02	484.73	580.78	539.43	586.70	584.88
569.26	552.42	575.10	336.24	580.94	436.94	586.78	476.95
569.33	605.71	575.18	521.23	581.02	409.80	586.86	608.86
569.49	581.93	575.25	366.17	581.17	302.24	586.94	550.41
569.57	534.84	575.33	534.87	581.25	689.52	587.02	463.51
569.64	491.38	575.49	315.45	581.33	373.90	587.17	653.53
569.72	407.09	575.56	361.57	581.41	586.26	587.25	566.71
569.80	471.90	575.72	617.94	581.48	550.88	587.40	452.72
569.88	310.86	575.80	367.56	581.56	287.56	587.48	481.03
570.03	617.19	575.88	567.35	581.72	451.99	587.56	423.05
570.11	591.74	575.95	539.95	581.80	409.97	587.64	502.44
570.27	385.45	576.03	661.73	581.95	536.52	587.72	519.21
570.35	556.46	576.11	368.39	582.03	433.46	587.79	661.97
570.42	395.27	576.27	441.64	582.11	420.21	587.95	495.67
570.50	391.69	576.34	479.10	582.19	590.53	588.03	592.80
570.58	618.82	576.50	582.13	582.26	545.51	588.18	555.78
570.66	427.62	576.58	395.85	582.34	571.06	588.26	477.92
570.81	648.86	576.66	570.57	582.50	364.98	588.34	427.11
570.89	438.44	576.73	432.94	582.58	532.97	588.42	530.89
571.05	561.43	576.81	573.92	582.73	478.14	588.50	501.93
571.12	644.55	576.89	569.59	582.81	430.60	588.57	347.67
571.20	338.25	577.04	468.90	582.89	522.41	588.73	630.69
571.28	511.70	577.12	654.98	582.96	417.02	588.81	562.30
571.36	656.94	577.28	394.07	583.04	507.86	588.96	654.74
571.44	496.20	577.36	437.35	583.12	549.25	589.04	465.54
571.59	435.80	577.43	500.28	583.28	516.31	589.12	721.69
571.67	653.66	577.51	564.48	583.35	554.27	589.20	543.57
571.83	615.33	577.59	475.95	583.51	552.42	589.27	489.71

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
589.35	663.20	595.35	572.71	601.43	497.09	607.19	513.03
589.51	573.22	595.43	523.26	601.50	518.11	607.27	541.36
589.59	709.06	595.58	532.12	601.58	501.65	607.42	634.37
589.74	577.97	595.74	615.94	601.66	674.94	607.50	530.08
589.82	377.46	595.82	422.00	601.74	393.53	607.66	534.33
589.90	626.21	595.97	493.88	601.81	405.62	607.73	547.77
589.98	650.00	596.05	519.02	601.97	593.58	607.81	507.47
590.05	550.67	596.13	546.65	602.05	364.70	607.89	517.13
590.13	466.04	596.21	568.03	602.20	513.22	607.97	641.19
590.29	520.44	596.28	576.79	602.28	393.48	608.05	405.15
590.36	338.40	596.36	449.07	602.36	494.40	608.20	579.61
590.52	592.57	596.52	387.39	602.44	510.21	608.28	467.23
590.60	617.32	596.60	428.81	602.52	644.87	608.44	474.97
590.68	368.90	596.75	414.95	602.59	466.00	608.51	487.47
590.75	377.89	596.83	361.10	602.75	661.97	608.59	508.67
590.83	517.58	596.91	525.16	602.83	438.53	608.67	357.75
590.91	456.56	596.99	661.97	602.98	449.71	608.75	577.34
591.07	422.95	597.06	544.07	603.06	400.82	608.83	642.22
591.14	395.42	597.14	528.80	603.14	556.66	608.98	553.55
591.30	561.62	597.30	442.96	603.22	523.94	609.06	455.25
591.38	523.05	597.38	543.26	603.29	640.92	609.21	507.63
591.46	446.87	597.53	373.60	603.37	453.29	609.29	389.97
591.53	589.40	597.61	626.00	603.53	465.92	609.37	361.11
591.69	620.33	597.69	324.74	603.61	471.35	609.45	659.16
591.84	475.60	597.76	501.30	603.76	525.25	609.53	327.39
591.92	400.60	597.84	481.90	603.84	301.57	609.60	391.96
592.08	644.63	597.92	370.39	603.92	629.36	609.84	593.34
592.16	457.46	598.08	591.37	604.00	487.19	609.99	673.16
592.23	534.17	598.15	484.55	604.07	630.44	610.07	436.12
592.31	435.95	598.31	637.79	604.15	513.54	610.15	521.32
592.39	478.03	598.39	571.89	604.31	404.44	610.23	620.49
592.47	546.85	598.47	437.11	604.39	619.44	610.31	613.15
592.62	546.68	598.54	513.94	604.54	523.60	610.38	432.29
592.70	593.50	598.62	626.35	604.62	636.41	610.54	615.76
592.86	556.79	598.70	546.40	604.70	721.69	610.62	587.19
592.94	330.78	598.86	310.23	604.77	479.44	610.77	662.48
593.01	599.03	598.93	449.72	604.85	552.28	610.85	443.51
593.09	523.98	599.09	674.45	604.93	545.58	610.93	504.38
593.17	574.89	599.17	474.55	605.09	460.61	611.01	547.64
593.25	508.13	599.24	630.53	605.16	426.43	611.08	698.84
593.40	516.96	599.32	585.66	605.32	465.08	611.16	402.56
593.48	368.90	599.40	375.98	605.40	409.44	611.32	536.82
593.64	468.00	599.48	526.98	605.48	666.01	611.40	459.99
593.71	507.50	599.63	515.20	605.55	364.70	611.55	442.60
593.79	478.25	599.71	279.69	605.63	453.33	611.63	660.60
593.87	526.23	599.95	743.30	605.71	534.65	611.71	477.39
593.95	488.25	600.02	467.88	605.87	543.98	611.79	557.01
594.03	447.58	600.10	592.07	605.94	394.08	611.86	427.68
594.18	490.60	600.18	575.01	606.10	383.52	611.94	546.27
594.26	558.34	600.26	545.31	606.18	392.91	612.10	517.70
594.42	587.15	600.41	432.43	606.25	771.84	612.17	444.53
594.49	565.03	600.49	527.63	606.33	539.24	612.33	508.12
594.57	505.97	600.65	541.26	606.41	556.65	612.41	422.95
594.65	614.87	600.72	589.38	606.49	617.37	612.49	363.58
594.73	288.02	600.80	419.85	606.64	414.22	612.56	641.42
594.80	667.37	600.88	721.69	606.72	494.35	612.64	553.30
594.96	541.98	600.96	537.25	606.88	562.61	612.72	392.36
595.04	564.97	601.04	454.32	606.96	418.51	612.88	562.49
595.19	453.70	601.19	508.12	607.03	400.60	612.95	511.81
595.27	545.84	601.27	439.66	607.11	541.75	613.11	451.99

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
613.19	475.25	619.34	471.80	625.34	456.66	631.34	554.51
613.27	544.87	619.42	558.87	625.42	453.82	631.41	608.83
613.34	477.16	619.50	601.84	625.57	427.21	631.65	554.63
613.42	414.44	619.57	382.04	625.65	584.64	631.80	408.61
613.50	410.27	619.65	633.81	625.73	613.77	631.88	546.48
613.65	367.44	619.73	465.94	625.81	496.79	631.96	504.93
613.73	525.95	619.89	593.34	625.88	705.53	632.04	588.62
613.89	599.01	619.96	547.92	625.96	456.67	632.12	318.09
613.97	518.18	620.12	339.71	626.12	381.26	632.19	563.16
614.04	466.50	620.20	344.18	626.20	512.50	632.35	653.68
614.12	593.08	620.28	536.62	626.35	587.95	632.58	665.97
614.20	542.33	620.35	485.01	626.43	456.07	632.66	593.90
614.28	562.72	620.43	533.01	626.51	479.15	632.74	370.20
614.43	627.69	620.51	384.38	626.59	484.46	632.82	583.72
614.67	718.55	620.67	570.10	626.66	737.80	632.89	716.11
614.75	475.59	620.74	383.77	626.74	425.61	632.97	545.25
614.82	560.69	620.90	422.95	626.90	390.80	633.13	513.23
614.90	510.57	620.98	425.66	626.97	508.18	633.21	576.42
614.98	312.09	621.05	395.85	627.13	476.51	633.36	414.44
615.06	395.42	621.13	527.93	627.21	349.22	633.44	329.26
615.21	458.42	621.29	501.84	627.29	410.41	633.52	505.20
615.29	214.28	621.44	466.16	627.36	586.13	633.60	416.43
615.52	485.53	621.52	661.97	627.44	432.46	633.67	359.67
615.60	531.84	621.68	326.51	627.52	518.70	633.75	424.88
615.68	376.48	621.76	377.36	627.68	485.08	633.91	423.29
615.76	429.67	621.83	432.20	627.75	568.29	633.99	572.84
615.84	392.90	621.91	553.77	627.91	568.62	634.22	539.55
615.99	380.56	621.99	387.46	627.99	376.88	634.30	533.01
616.23	429.49	622.07	404.40	628.07	609.39	634.37	492.01
616.30	500.05	622.22	370.34	628.14	489.26	634.45	525.84
616.38	588.21	622.30	577.02	628.22	495.94	634.53	621.88
616.46	462.91	622.46	577.62	628.30	543.88	634.69	489.20
616.54	679.13	622.53	592.29	628.45	580.81	634.76	577.09
616.61	627.74	622.61	298.41	628.53	582.80	634.92	587.90
616.77	655.09	622.69	502.53	628.69	502.97	635.00	470.33
616.85	415.64	622.77	581.02	628.77	376.22	635.08	357.75
617.00	445.64	622.85	544.97	628.84	453.17	635.15	464.52
617.08	642.49	623.08	509.60	628.92	565.36	635.23	511.83
617.16	498.42	623.24	570.06	629.00	527.94	635.47	526.59
617.24	545.65	623.31	570.89	629.08	462.32	635.54	432.31
617.32	558.10	623.39	630.55	629.23	414.44	635.70	389.08
617.39	358.67	623.47	282.31	629.31	563.29	635.78	335.59
617.55	455.68	623.55	366.17	629.55	513.42	635.85	478.83
617.63	551.25	623.63	524.52	629.62	514.59	635.93	546.12
617.78	398.85	623.78	302.24	629.70	633.61	636.01	446.84
617.86	455.89	623.86	531.18	629.78	621.88	636.24	592.17
617.94	454.11	624.01	448.95	629.86	567.08	636.32	532.24
618.02	652.13	624.09	530.19	630.01	542.58	636.48	347.00
618.09	384.68	624.17	572.64	630.09	395.42	636.56	555.16
618.17	408.33	624.25	491.96	630.25	456.19	636.63	572.78
618.33	488.44	624.33	626.80	630.32	613.92	636.71	451.34
618.41	524.84	624.40	422.93	630.40	547.71	636.79	481.73
618.56	447.89	624.56	551.22	630.48	555.67	637.02	494.97
618.64	607.39	624.64	377.59	630.56	468.82	637.10	394.21
618.72	408.87	624.79	565.74	630.79	624.83	637.26	564.84
618.80	409.43	624.87	505.24	630.87	544.87	637.33	426.84
618.87	470.52	624.95	567.12	631.03	521.07	637.41	376.77
618.95	445.76	625.03	400.60	631.10	454.85	637.49	516.44
619.11	603.29	625.11	373.60	631.18	437.40	637.57	394.68
619.19	481.22	625.18	546.66	631.26	480.37	637.65	528.62



PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
637.80	565.94	643.88	661.29	650.34	519.63	657.04	536.89
637.88	536.82	644.03	492.50	650.58	507.95	657.12	382.87
638.04	539.64	644.11	434.19	650.65	517.65	657.28	412.52
638.11	462.20	644.27	422.21	650.73	433.46	657.35	471.94
638.19	424.95	644.34	570.44	650.81	439.56	657.51	539.35
638.27	495.04	644.42	488.25	650.89	502.75	657.59	493.73
638.35	422.90	644.50	604.81	651.04	661.97	657.66	465.62
638.58	457.57	644.58	450.02	651.12	583.02	657.74	457.15
638.66	458.95	644.66	432.27	651.36	624.25	657.82	599.80
638.81	441.82	644.81	364.88	651.43	498.33	657.90	634.23
638.89	543.72	644.89	632.23	651.51	519.24	658.29	518.40
638.97	375.04	645.05	586.29	651.59	530.25	658.37	453.20
639.05	579.58	645.12	363.23	651.67	403.09	658.44	600.49
639.13	549.72	645.20	462.20	651.82	542.11	658.52	526.61
639.20	648.50	645.28	366.78	651.90	511.39	658.60	376.71
639.36	514.73	645.36	482.07	652.06	561.24	658.68	512.28
639.44	447.54	645.44	336.55	652.13	502.46	658.83	381.83
639.59	551.81	645.59	458.61	652.21	515.03	658.91	649.34
639.67	443.28	645.67	372.09	652.29	341.68	659.07	511.21
639.75	570.82	645.82	533.36	652.37	509.06	659.14	588.29
639.83	374.96	645.90	599.68	652.45	537.84	659.22	576.92
639.91	592.89	645.98	416.21	652.60	515.44	659.30	564.40
639.98	675.19	646.06	536.67	652.84	526.50	659.38	430.99
640.14	469.11	646.14	418.25	652.91	547.83	659.61	570.37
640.22	387.88	646.21	353.54	652.99	500.72	659.69	652.80
640.37	613.88	646.37	332.90	653.07	468.86	659.92	520.44
640.45	540.25	646.45	443.50	653.15	629.71	660.00	368.41
640.53	412.36	646.60	400.73	653.38	564.68	660.08	536.83
640.61	706.32	646.68	651.33	653.46	431.02	660.47	634.65
640.68	610.94	646.76	429.21	653.61	563.97	660.62	422.95
640.76	534.45	646.84	394.73	653.69	687.13	660.70	593.05
640.92	482.07	646.92	515.75	653.77	479.72	660.78	508.08
641.00	586.41	646.99	469.71	653.85	605.32	660.86	381.83
641.23	582.43	647.15	439.70	654.00	445.37	660.94	466.09
641.31	438.46	647.38	455.15	654.39	412.95	661.01	419.70
641.39	621.88	647.46	398.11	654.47	453.30	661.17	609.94
641.46	240.86	647.54	574.67	654.55	609.51	661.25	655.97
641.54	299.61	647.62	553.20	654.63	721.69	661.48	616.02
641.70	647.68	647.69	663.90	654.70	548.78	661.56	482.65
641.77	402.52	647.77	656.03	654.78	508.38	661.64	559.09
641.93	366.17	648.16	512.08	654.94	604.97	661.79	545.91
642.01	495.43	648.24	563.38	655.02	568.43	661.95	377.89
642.09	514.91	648.32	438.58	655.17	609.78	662.03	509.76
642.16	364.80	648.40	456.35	655.25	591.51	662.18	590.88
642.32	462.11	648.47	558.28	655.33	456.17	662.26	566.64
642.48	564.48	648.55	418.68	655.41	464.88	662.34	574.73
642.55	451.50	648.71	595.34	655.48	338.25	662.42	443.35
642.71	713.64	648.94	537.09	655.56	486.49	662.57	386.31
642.79	576.37	649.02	487.23	655.80	655.11	662.73	442.42
642.86	525.26	649.10	461.02	655.95	489.09	662.81	462.06
642.94	591.49	649.17	478.57	656.03	450.22	662.96	518.49
643.02	589.35	649.25	433.29	656.11	633.83	663.04	493.66
643.10	436.13	649.49	475.56	656.18	443.18	663.12	615.70
643.25	478.42	649.56	511.12	656.26	545.04	663.20	408.31
643.33	480.23	649.72	611.11	656.34	339.50	663.27	599.72
643.49	609.22	649.80	615.18	656.57	607.02	663.58	775.39
643.57	465.31	649.88	516.01	656.73	453.17	663.74	584.22
643.64	290.64	649.95	472.16	656.81	581.50	663.82	597.71
643.72	526.91	650.11	404.78	656.89	640.85	663.90	500.79
643.80	577.49	650.26	534.06	656.96	546.35	663.97	541.42

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
664.05	502.99	671.30	338.96	679.09	455.63	688.28	424.50
664.13	356.99	671.53	475.10	679.16	553.89	688.67	517.58
664.52	433.01	671.61	499.53	679.32	496.76	688.74	624.73
664.60	495.40	671.69	721.69	679.40	499.90	688.90	367.97
664.68	381.63	671.76	497.32	679.48	496.24	688.98	562.22
664.91	476.76	671.84	638.36	679.63	337.39	689.06	515.30
665.06	559.47	671.92	595.65	680.10	427.25	689.21	476.76
665.30	437.11	672.08	532.72	680.18	509.40	689.52	329.68
665.38	650.58	672.15	647.42	680.25	487.96	689.60	449.83
665.45	452.42	672.39	443.88	680.33	459.97	689.68	533.15
665.53	650.00	672.46	433.54	680.64	646.68	689.76	479.38
665.61	567.52	672.54	636.93	680.72	513.77	689.99	469.92
665.84	439.32	672.70	489.35	680.88	589.17	690.07	508.70
665.92	381.83	672.85	511.89	680.96	588.79	690.22	300.50
666.16	373.60	672.93	454.11	681.03	309.70	690.30	590.12
666.23	476.39	673.09	287.08	681.11	597.43	690.38	447.70
666.31	537.52	673.17	581.79	681.19	595.51	690.46	539.03
666.62	328.76	673.24	514.56	681.27	666.10	690.77	572.16
666.70	574.56	673.32	505.46	681.42	439.57	690.85	564.27
666.86	358.98	673.40	407.02	681.50	692.86	691.08	388.39
666.93	306.86	673.48	378.95	681.66	331.56	691.16	432.36
667.01	503.15	673.63	556.26	681.73	550.52	691.39	619.28
667.09	550.38	673.71	593.34	681.89	721.69	691.86	546.91
667.17	389.96	673.87	462.64	682.05	475.25	691.94	641.66
667.25	343.26	673.94	453.17	682.51	470.80	692.02	645.25
667.48	710.17	674.02	627.52	682.59	428.05	692.09	442.82
667.71	667.77	674.10	452.99	682.67	588.15	692.33	258.09
667.79	531.64	674.26	488.15	682.98	505.18	692.41	454.46
667.87	611.97	674.41	552.09	683.29	492.94	692.64	542.64
667.95	539.44	674.65	461.50	683.37	434.34	692.79	490.89
668.02	489.32	674.72	606.65	683.45	568.33	692.87	585.53
668.18	525.40	674.80	566.37	683.60	506.63	692.95	504.87
668.26	411.84	674.88	420.31	683.76	579.31	693.18	449.85
668.41	448.45	674.96	457.00	683.84	680.60	693.34	584.79
668.49	562.69	675.50	709.33	683.99	412.99	693.42	653.13
668.57	621.39	675.58	422.95	684.07	645.88	693.50	420.09
668.65	507.25	675.66	450.49	684.15	611.61	693.57	607.04
668.73	379.09	675.74	628.35	684.30	235.09	693.65	575.31
668.80	536.32	676.05	459.44	684.38	536.62	694.12	549.90
668.96	592.82	676.20	372.09	684.77	552.98	694.20	506.81
669.04	381.52	676.28	549.44	684.85	518.18	694.35	558.98
669.27	400.39	676.36	282.94	684.93	556.20	694.51	507.85
669.35	524.19	676.44	505.16	685.01	493.40	694.66	365.68
669.43	477.51	676.52	525.85	685.32	494.23	694.74	536.83
669.50	505.75	677.06	250.93	685.55	599.60	694.90	503.62
669.58	510.45	677.14	446.50	685.71	545.29	694.98	640.92
669.74	484.86	677.22	446.50	685.78	470.11	695.05	552.70
669.82	507.95	677.29	594.24	685.94	627.44	695.13	633.92
669.97	399.53	677.37	443.25	686.10	428.29	695.21	517.71
670.05	473.95	677.53	464.00	686.33	496.13	695.29	593.99
670.13	482.26	677.61	470.36	686.56	401.06	695.44	475.42
670.21	475.73	677.84	502.53	686.64	646.37	695.52	574.54
670.28	398.71	677.92	570.59	687.19	540.77	695.68	469.76
670.36	520.32	678.00	460.90	687.26	465.63	695.83	524.58
670.60	684.39	678.15	549.42	687.34	375.29	695.91	471.73
670.83	557.05	678.62	515.83	687.73	264.80	696.53	497.23
670.91	470.87	678.70	519.10	687.97	517.72	696.61	399.53
670.98	573.95	678.77	517.81	688.04	436.74	697.31	435.23
671.06	336.52	678.85	526.02	688.12	560.36	697.39	389.16
671.14	440.88	678.93	350.86	688.20	590.06	697.55	432.29

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
698.09	509.14	710.01	615.70	720.91	359.84	738.05	405.97
698.17	568.22	710.09	555.52	721.15	481.85	738.36	481.48
698.95	512.98	710.55	391.00	721.54	604.33	738.60	536.97
699.03	530.02	710.63	423.16	722.01	446.02	738.75	587.08
699.10	504.17	710.71	446.67	722.24	374.55	739.38	395.85
699.34	458.13	711.26	586.96	722.55	483.04	739.45	409.42
699.57	299.61	711.33	550.68	722.94	467.40	740.23	332.84
699.65	507.97	711.41	468.08	723.02	581.05	740.93	617.92
699.73	428.89	711.57	402.06	723.10	517.98	741.01	320.84
699.88	549.21	711.80	555.78	723.80	389.58	741.17	635.95
699.96	302.24	711.88	690.25	723.87	500.94	741.40	393.54
700.12	426.82	712.11	471.73	724.58	514.00	743.35	443.49
700.43	534.95	712.19	285.51	724.73	516.47	746.31	443.56
700.51	517.99	712.27	331.56	724.89	709.33	746.39	480.90
700.58	336.05	712.58	575.92	725.04	470.14	747.24	567.20
700.66	537.74	712.66	457.09	725.28	495.89	747.32	464.79
701.13	590.00	712.81	512.08	725.35	481.19	747.71	397.75
701.21	449.13	712.97	681.00	725.43	631.85	748.18	451.99
701.29	306.40	713.05	410.77	725.59	550.74	748.26	537.58
701.52	372.96	713.13	403.14	725.82	518.70	749.03	562.63
702.06	594.34	713.44	584.64	726.06	425.58	751.60	661.97
702.14	524.58	713.59	485.69	726.21	401.13	751.92	516.82
702.22	447.74	713.67	499.72	726.83	553.80	753.47	487.47
702.77	630.77	713.83	426.25	726.91	546.27	754.25	496.36
702.92	388.49	713.98	585.07	726.99	586.29	754.41	426.62
703.00	411.22	714.14	390.74	727.15	631.37	757.29	451.02
703.08	537.25	714.22	601.79	727.92	477.53	760.48	553.03
703.23	618.74	714.53	617.61	728.55	616.61	760.56	565.86
703.31	649.91	714.68	683.46	729.25	395.85	762.12	508.83
703.62	534.69	714.99	394.61	729.33	498.51	762.20	616.43
703.70	429.62	715.23	537.99	729.56	430.99	763.44	614.54
703.86	403.36	715.31	661.97	730.03	392.28	763.60	540.01
704.09	600.02	715.38	394.53	730.34	653.66	766.72	403.66
704.32	479.78	715.54	642.40	730.88	395.85	767.73	603.98
704.40	560.67	716.01	537.16	731.04	493.97	768.27	517.94
704.63	500.51	716.09	370.77	731.12	524.26	768.90	491.49
704.79	377.39	716.16	302.60	731.59	571.61	769.52	355.68
705.10	552.27	716.24	478.58	732.36	422.08	771.08	508.19
705.18	638.45	716.86	406.06	733.14	469.03	771.31	419.64
705.41	553.36	717.02	615.70	733.22	580.93	772.56	362.02
705.80	403.81	717.57	631.37	733.92	574.61	773.03	407.12
705.88	401.80	718.03	398.71	734.00	603.27	773.73	414.11
705.96	463.52	718.34	456.47	734.08	414.44	777.00	560.60
706.35	432.86	718.42	304.84	734.47	553.35	777.08	515.51
706.66	521.30	718.50	407.09	734.70	455.62	777.54	403.39
706.74	327.05	718.81	512.53	734.78	616.66	777.62	540.00
706.97	429.16	719.20	386.54	735.17	444.22	784.63	433.46
707.36	566.35	719.67	341.46	735.48	495.66	788.53	589.34
707.44	589.44	719.90	302.24	735.56	564.58	789.23	391.43
707.91	522.45	719.98	441.01	735.95	448.90	794.68	541.49
708.22	568.26	720.06	432.60	736.03	452.80	795.54	522.90
708.30	581.22	720.14	460.59	736.26	452.07	798.65	449.51
708.37	415.20	720.37	642.98	736.49	455.32	803.33	476.68
709.00	606.83	720.45	516.76	736.73	517.73	828.41	499.44
709.23	514.50	720.68	415.56	736.96	414.44		
709.70	478.75	720.76	476.09	737.19	498.16		
709.85	393.26	720.84	563.57	737.97	539.09		

Table F.2

## Original PCAP scores to new score

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
279.65	294.39	341.64	346.94	359.02	369.07	372.90	376.26
279.93	292.48	342.55	351.14	359.29	361.94	373.00	376.71
281.31	293.02	343.01	352.32	359.38	376.32	373.09	377.41
283.15	295.02	343.29	352.46	359.48	364.33	373.18	382.06
300.34	309.43	343.75	353.62	359.57	367.32	373.27	379.10
300.53	314.03	344.03	352.33	360.03	364.71	373.55	380.24
305.12	316.43	344.58	351.70	360.40	366.96	373.64	382.65
305.31	316.27	344.76	371.46	360.95	367.01	373.73	394.79
305.58	317.78	344.85	367.09	361.13	365.44	374.28	380.12
305.86	314.91	345.22	369.97	361.22	361.47	374.56	378.78
308.99	316.54	345.77	349.43	361.78	363.44	375.02	383.51
309.08	318.04	346.14	352.55	362.24	380.39	375.11	391.91
311.84	321.58	346.51	350.43	362.33	382.56	375.20	381.44
313.22	322.56	346.97	353.84	362.79	368.91	375.29	398.40
314.78	324.92	348.72	353.83	362.88	367.50	375.57	376.16
316.90	325.00	348.81	356.17	362.97	371.15	375.66	380.46
318.55	325.11	349.08	358.31	363.52	364.96	375.75	376.50
320.02	329.79	349.82	356.51	363.80	370.41	376.03	380.33
320.21	332.33	349.91	354.58	363.89	372.70	376.12	393.95
320.30	330.02	350.28	358.15	364.07	370.21	376.40	381.73
321.40	332.36	350.65	356.87	364.44	370.29	377.04	381.60
321.49	332.29	350.92	355.59	364.53	367.84	377.23	381.33
322.41	328.11	351.20	355.30	364.63	381.75	377.78	382.27
322.69	331.38	351.29	356.75	364.99	375.23	377.87	384.42
323.15	330.51	351.48	360.88	365.09	373.42	378.33	386.92
323.89	330.38	351.57	360.13	365.18	370.31	378.61	384.36
325.63	333.26	351.84	359.93	365.55	383.78	378.70	387.91
325.82	335.98	351.94	362.03	365.64	366.58	378.88	386.81
326.64	350.91	352.03	364.00	365.91	369.97	378.97	400.02
327.29	338.33	352.21	360.76	366.01	369.88	379.07	395.38
328.39	334.96	352.40	365.12	366.10	372.10	379.16	397.48
328.48	335.72	352.76	359.18	366.19	371.80	379.25	397.77
328.58	338.24	352.95	361.60	366.28	388.62	379.62	384.31
329.22	335.59	353.31	356.90	366.37	374.80	379.80	386.45
329.31	341.09	353.41	359.22	366.74	377.04	379.89	388.15
329.77	341.05	353.50	358.38	367.11	371.71	380.26	383.60
329.96	338.33	353.77	357.10	367.85	370.05	380.35	379.34
330.60	344.01	353.87	359.53	368.31	373.41	380.63	388.02
330.78	339.39	354.51	356.97	368.40	371.27	380.72	383.56
331.34	337.28	354.88	373.42	368.49	375.29	380.81	382.69
332.16	340.09	355.06	362.26	368.58	374.23	380.90	383.49
332.90	339.96	355.25	360.70	368.77	376.47	381.00	384.57
333.17	342.39	355.43	361.72	369.59	389.51	381.27	388.69
334.55	343.99	355.71	361.08	369.78	375.45	381.36	394.66
336.03	344.26	355.80	377.62	369.87	375.60	381.73	399.34
336.12	340.24	355.98	361.86	369.96	393.11	382.01	383.57
336.76	344.12	356.26	363.48	370.42	375.33	382.19	400.71
338.14	361.94	357.45	365.34	370.60	375.01	382.28	380.40
338.60	347.11	357.73	360.10	370.88	375.63	382.38	387.87
338.69	349.50	357.91	366.46	371.98	388.65	382.47	389.95
339.61	345.71	358.37	359.97	372.08	379.62	382.74	385.23
340.62	345.48	358.47	363.98	372.17	376.99	382.84	390.22
340.81	350.80	358.56	365.54	372.54	382.18	383.02	384.68
341.08	346.29	358.65	367.89	372.63	384.33	383.20	386.80
341.36	345.35	358.74	362.70	372.72	390.58	383.39	388.03

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
383.48	389.51	392.95	396.70	402.06	410.00	410.43	405.20
383.66	391.39	393.23	392.25	402.24	404.07	410.89	414.90
383.76	389.02	393.32	409.02	402.33	408.06	410.98	425.19
383.85	392.53	393.50	396.81	402.42	405.70	411.16	435.16
384.12	386.94	393.69	399.95	402.61	404.11	411.25	414.85
384.22	393.49	393.87	397.12	402.70	407.43	411.71	424.31
384.49	389.17	393.96	414.02	402.79	418.39	411.81	426.62
384.68	404.79	394.15	409.54	402.98	403.94	411.90	412.17
384.77	384.41	394.24	399.85	403.25	412.76	411.99	426.19
384.95	384.43	394.33	396.86	403.34	402.82	412.27	413.69
385.04	386.58	394.70	408.37	403.53	405.24	412.45	408.69
385.14	385.55	394.88	402.12	403.62	418.97	412.54	414.12
385.23	386.01	394.98	405.35	403.99	409.30	412.72	415.74
385.32	389.65	395.07	422.94	404.26	428.71	413.00	426.69
385.50	402.50	395.53	399.58	404.54	409.20	413.09	414.19
385.59	403.70	395.62	402.00	404.63	415.79	413.18	419.53
385.69	390.68	395.71	412.92	404.82	418.11	413.28	426.59
385.78	390.79	395.80	397.99	405.00	409.44	413.37	436.43
386.05	389.52	395.90	400.72	405.28	405.08	413.46	428.98
386.33	389.21	395.99	399.86	405.37	407.15	413.64	417.71
386.70	390.72	396.08	399.18	405.46	400.02	413.74	417.43
386.88	393.68	396.17	400.77	405.55	419.69	413.83	421.58
387.07	388.05	396.26	412.82	405.64	406.66	413.92	418.54
387.43	391.23	396.35	394.07	405.74	409.00	414.01	425.86
387.71	389.91	396.45	396.18	405.83	410.82	414.10	439.00
387.80	391.96	396.72	403.05	405.92	420.31	414.20	429.19
387.99	396.48	396.81	402.56	406.01	410.17	414.29	439.69
388.08	390.24	397.00	410.58	406.29	419.85	414.38	410.93
388.17	407.16	397.27	401.94	406.47	408.23	414.47	429.94
388.26	385.77	397.46	403.85	406.75	423.54	414.56	414.97
388.35	401.32	397.55	402.43	406.84	412.22	414.66	407.91
388.45	397.62	397.64	409.20	407.02	423.10	414.75	425.47
388.72	405.41	397.83	409.26	407.21	413.07	414.84	427.50
388.81	407.28	397.92	399.01	407.30	423.45	414.93	415.50
388.91	391.01	398.10	400.96	407.39	412.12	415.02	417.25
389.00	390.37	398.19	398.39	407.57	411.53	415.39	416.74
389.09	392.49	398.38	400.48	407.76	418.92	415.76	418.79
389.27	405.28	398.47	400.04	407.85	418.99	415.94	416.57
389.46	392.51	398.56	411.14	408.03	410.43	416.04	428.06
389.83	409.37	398.65	413.19	408.13	408.95	416.22	418.70
389.92	391.77	398.84	400.96	408.22	423.44	416.31	419.03
390.38	396.52	398.93	404.23	408.31	407.97	416.40	415.23
390.47	407.97	399.02	400.95	408.40	422.10	416.59	427.97
390.65	396.05	399.11	400.08	408.49	420.91	416.68	412.22
390.75	411.60	399.30	403.37	408.59	409.38	416.86	416.42
390.93	392.59	399.48	404.13	408.77	420.91	416.96	431.46
391.11	406.57	399.94	400.55	408.86	415.58	417.05	418.15
391.20	393.87	400.40	404.52	408.95	409.71	417.14	430.50
391.30	393.01	400.86	412.42	409.05	420.52	417.32	442.08
391.39	398.74	401.05	401.34	409.14	409.28	417.42	413.80
391.48	397.55	401.14	405.06	409.41	424.48	417.51	430.26
391.57	397.85	401.23	402.65	409.51	411.96	417.69	420.48
391.66	404.57	401.32	404.55	409.60	413.24	417.78	429.20
391.76	399.67	401.41	405.96	409.69	405.28	417.87	421.67
392.03	393.34	401.51	416.76	409.87	411.22	417.97	424.11
392.22	393.41	401.60	409.13	409.97	412.89	418.06	429.06
392.49	397.45	401.69	398.79	410.06	423.22	418.15	420.09
392.58	395.30	401.78	408.15	410.15	416.03	418.33	422.35
392.68	404.05	401.87	410.00	410.24	413.77	418.43	424.02
392.86	406.12	401.96	407.56	410.33	415.54	418.52	433.34

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
418.61	413.63	425.69	432.73	433.51	436.07	440.31	439.48
418.79	423.55	425.78	444.67	433.60	432.34	440.59	457.96
418.89	428.14	425.88	436.11	433.69	430.36	440.77	447.81
419.16	421.33	425.97	426.10	433.79	436.79	440.87	450.74
419.25	416.76	426.15	427.72	433.88	443.45	440.96	450.19
419.35	433.22	426.34	439.73	434.15	438.51	441.05	442.41
419.44	442.21	426.52	426.75	434.24	440.54	441.14	441.19
419.71	435.05	426.61	421.64	434.52	444.61	441.23	452.67
419.90	422.11	426.70	425.27	434.61	436.81	441.42	458.24
419.99	416.63	426.80	430.09	434.70	427.94	441.60	438.97
420.08	423.34	426.89	434.96	434.80	434.48	441.69	436.42
420.17	421.11	426.98	419.92	434.98	446.88	441.88	449.52
420.27	434.97	427.07	436.42	435.07	433.47	442.06	442.54
420.36	423.38	427.16	449.44	435.16	437.81	442.15	461.09
420.45	427.54	427.26	428.93	435.26	447.54	442.25	446.76
420.63	420.72	427.35	451.48	435.35	437.01	442.43	451.79
420.73	431.61	427.53	439.69	435.53	436.21	442.61	448.19
420.82	420.70	427.81	438.84	435.62	437.73	442.71	452.14
420.91	423.30	427.90	440.87	435.72	436.72	442.80	442.10
421.00	422.93	427.99	428.80	435.81	448.56	442.89	459.25
421.09	421.90	428.18	430.76	435.99	442.69	442.98	436.73
421.19	420.96	428.45	439.21	436.18	432.70	443.07	453.46
421.28	422.64	428.54	423.05	436.27	434.43	443.17	451.28
421.37	419.49	428.64	434.29	436.36	455.25	443.26	444.28
421.46	434.62	428.73	428.29	436.45	457.31	443.35	463.89
421.55	446.63	428.82	442.43	436.54	445.72	443.44	444.72
421.65	433.95	428.91	432.70	436.64	457.90	443.53	455.00
421.74	416.56	429.00	428.54	436.73	446.76	443.72	443.54
422.11	421.99	429.09	430.55	436.91	444.33	443.81	433.70
422.20	425.73	429.19	432.12	437.00	446.65	443.90	453.15
422.29	423.65	429.37	432.62	437.10	448.41	444.27	450.21
422.38	423.30	429.46	448.74	437.19	454.67	444.45	451.92
422.47	424.96	429.74	429.75	437.28	436.94	444.55	461.54
422.66	443.44	429.83	451.88	437.37	437.66	444.64	462.80
422.75	424.10	429.92	428.94	437.46	433.75	444.73	445.50
422.84	426.90	430.01	438.14	437.56	449.54	444.91	451.55
422.93	436.35	430.38	430.13	437.65	440.20	445.00	444.14
423.03	426.04	430.47	425.27	437.74	430.78	445.19	442.61
423.12	427.67	430.57	427.30	437.83	439.42	445.28	454.49
423.30	435.57	430.75	439.71	437.92	448.07	445.46	463.11
423.39	425.72	430.84	424.32	438.02	438.63	445.56	454.19
423.48	418.72	431.12	443.77	438.11	440.13	445.65	463.82
423.58	425.96	431.21	432.02	438.20	437.07	445.74	445.53
423.76	430.02	431.30	432.04	438.29	439.34	445.83	444.00
423.85	431.23	431.49	433.25	438.38	438.25	446.02	452.10
423.94	433.26	431.67	441.59	438.48	448.33	446.11	434.97
424.04	435.57	431.76	432.67	438.57	456.54	446.20	454.43
424.22	436.68	431.85	440.83	438.75	434.79	446.29	443.71
424.31	426.71	431.95	444.11	439.03	443.57	446.38	456.13
424.40	420.37	432.04	431.91	439.12	436.95	446.57	439.51
424.50	447.79	432.13	438.79	439.21	435.29	446.66	441.48
424.59	423.46	432.41	443.59	439.30	449.17	446.75	454.73
424.68	423.79	432.59	431.82	439.40	450.54	446.94	454.03
424.86	435.64	432.77	432.47	439.58	437.79	447.03	454.77
424.96	432.86	432.87	430.49	439.67	438.84	447.12	449.25
425.05	427.05	432.96	438.95	439.76	435.02	447.21	451.93
425.14	436.37	433.14	437.32	439.85	438.19	447.40	456.64
425.42	423.66	433.23	436.87	439.95	442.08	447.58	448.55
425.51	426.97	433.33	432.09	440.04	447.53	447.76	444.15
425.60	422.17	433.42	442.41	440.22	448.86	447.86	455.08

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
447.95	464.90	455.21	460.30	462.39	464.58	468.73	472.88
448.04	453.59	455.31	469.57	462.48	464.90	468.82	471.70
448.13	455.62	455.40	461.37	462.57	466.95	468.92	478.99
448.22	456.24	455.49	452.60	462.75	460.12	469.01	484.75
448.32	464.85	455.58	463.07	462.94	453.83	469.10	472.82
448.41	467.73	455.76	462.40	463.03	456.10	469.19	467.53
448.78	462.97	455.86	447.26	463.12	467.47	469.28	473.95
448.87	453.45	455.95	461.73	463.21	450.83	469.56	471.37
448.96	440.79	456.04	470.92	463.31	475.62	469.65	473.62
449.05	454.55	456.13	459.87	463.40	476.72	469.84	468.51
449.14	453.26	456.22	461.87	463.49	466.43	469.93	479.40
449.24	466.60	456.32	451.13	463.58	470.40	470.02	482.91
449.33	462.94	456.41	452.39	463.67	475.67	470.11	481.39
449.51	468.90	456.50	470.01	463.77	467.88	470.20	475.01
449.60	448.68	456.68	452.60	463.86	469.10	470.30	481.88
449.79	447.23	456.78	472.94	463.95	474.39	470.48	471.22
449.88	467.42	456.87	472.32	464.04	475.61	470.57	481.11
449.97	457.72	456.96	481.79	464.13	477.42	470.66	472.28
450.06	457.81	457.14	464.08	464.23	467.81	470.76	481.03
450.25	445.11	457.42	463.28	464.32	461.81	470.85	472.23
450.34	466.02	457.51	463.78	464.41	477.97	470.94	478.86
450.43	457.73	457.60	463.98	464.50	474.72	471.22	483.94
450.52	449.49	457.79	454.37	464.78	465.58	471.31	482.94
450.61	451.54	457.97	469.38	464.87	459.81	471.49	478.29
450.71	458.35	458.16	457.72	464.96	462.17	471.68	474.93
450.80	458.51	458.25	455.63	465.00	462.17	471.77	472.54
450.89	442.19	458.34	459.10	465.05	465.96	471.86	472.83
450.98	450.74	458.52	465.53	465.15	453.06	471.95	474.95
451.07	455.23	458.62	461.46	465.24	479.50	472.04	468.14
451.17	456.73	458.71	471.94	465.33	455.11	472.13	475.35
451.53	456.49	458.89	456.60	465.42	468.63	472.23	474.13
451.63	445.62	458.98	452.91	465.51	467.78	472.32	484.42
451.72	451.61	459.08	463.66	465.61	468.48	472.41	461.67
451.90	450.89	459.17	463.73	465.70	476.89	472.50	480.37
451.99	460.17	459.26	464.78	465.79	470.82	472.59	476.67
452.09	451.54	459.35	463.68	465.88	470.20	472.78	474.54
452.18	455.05	459.54	458.64	465.97	471.39	472.87	476.01
452.36	457.11	459.63	478.65	466.07	471.87	473.05	474.49
452.45	459.20	459.90	465.14	466.16	478.59	473.15	475.65
452.55	451.06	460.00	465.07	466.34	480.73	473.42	487.61
452.64	471.91	460.09	465.73	466.52	469.66	473.61	477.66
452.91	450.88	460.18	467.66	466.62	472.41	473.70	464.04
453.01	458.22	460.27	458.20	466.71	467.60	473.79	475.20
453.10	458.98	460.46	462.59	466.80	462.29	473.88	483.90
453.19	460.65	460.73	480.21	466.89	464.92	473.97	476.44
453.28	461.05	460.82	475.29	466.98	470.91	474.07	476.79
453.37	470.36	460.92	464.05	467.08	462.89	474.25	473.43
453.47	452.46	461.01	466.55	467.17	475.72	474.43	475.56
453.65	459.68	461.10	476.31	467.26	469.52	474.71	493.26
453.83	451.02	461.19	468.06	467.35	456.53	474.80	484.77
453.93	443.07	461.28	471.72	467.44	470.95	474.89	485.88
454.02	450.55	461.37	474.61	467.54	478.25	474.99	473.74
454.11	451.91	461.47	462.90	467.63	480.44	475.08	467.10
454.39	454.13	461.56	466.77	467.72	489.58	475.17	469.84
454.48	448.48	461.65	456.59	467.90	478.19	475.26	483.08
454.66	452.74	461.74	474.89	468.09	471.35	475.35	489.99
454.85	468.68	461.83	467.29	468.18	471.81	475.45	479.88
454.94	462.24	461.93	477.92	468.27	483.08	475.54	492.19
455.03	461.58	462.02	459.23	468.36	480.80	475.63	486.79
455.12	462.84	462.29	465.45	468.64	469.60	475.72	487.36

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
475.81	466.69	482.62	478.38	490.44	487.23	497.06	508.72
475.91	478.44	482.71	499.26	490.53	505.12	497.15	499.93
476.00	477.10	482.80	491.58	490.62	498.28	497.43	501.06
476.09	486.03	483.08	496.06	490.71	498.37	497.52	518.14
476.18	476.93	483.17	476.02	490.80	495.41	497.61	501.34
476.27	487.09	483.35	482.53	490.99	497.23	497.70	491.87
476.37	478.41	483.54	482.48	491.08	496.65	497.89	506.71
476.46	487.62	483.72	484.63	491.17	493.87	497.98	499.68
476.55	477.43	483.81	482.14	491.26	497.16	498.07	493.59
476.64	479.39	483.91	473.47	491.36	487.45	498.16	508.12
476.73	477.98	484.00	483.50	491.54	492.34	498.25	495.59
476.83	476.67	484.09	483.21	491.63	495.26	498.44	511.21
476.92	473.95	484.18	490.27	491.72	485.94	498.62	493.80
477.10	477.33	484.27	485.38	491.82	496.10	498.71	501.12
477.19	495.24	484.37	484.92	491.91	495.83	498.80	496.33
477.56	486.39	484.46	496.56	492.00	488.81	498.90	510.94
477.65	487.50	484.55	489.44	492.18	498.52	498.99	502.65
477.74	477.98	484.83	483.11	492.28	507.32	499.08	503.72
478.02	486.33	484.92	485.24	492.46	496.14	499.17	499.69
478.11	488.28	485.01	498.42	492.55	507.99	499.26	482.44
478.20	477.64	485.10	492.49	492.64	489.97	499.45	496.88
478.30	479.78	485.29	487.90	492.83	513.77	499.63	501.47
478.39	477.38	485.38	492.54	492.92	499.17	499.72	510.80
478.48	490.94	485.56	484.54	493.01	497.84	499.82	492.67
478.57	493.07	485.65	484.97	493.20	499.29	499.91	493.62
478.66	493.14	485.75	489.27	493.29	488.63	500.00	501.41
478.76	475.91	485.93	500.23	493.38	497.55	500.09	495.84
478.85	488.54	486.02	497.99	493.47	490.30	500.18	503.35
478.94	488.97	486.39	486.24	493.56	498.15	500.28	496.20
479.03	461.61	486.48	488.69	493.93	477.12	500.37	507.62
479.12	479.65	486.57	486.31	494.02	481.54	500.64	492.52
479.22	481.80	486.76	483.41	494.11	490.65	500.74	496.51
479.31	472.77	486.85	485.87	494.21	498.77	500.83	500.21
479.40	476.53	486.94	492.45	494.30	490.71	500.92	497.87
479.58	475.77	487.03	484.63	494.39	500.86	501.01	503.19
479.68	490.01	487.13	490.37	494.48	499.41	501.20	511.84
479.77	480.54	487.22	498.71	494.57	508.22	501.38	501.62
479.95	481.90	487.40	492.76	494.67	499.63	501.47	509.63
480.04	479.03	487.68	493.28	494.76	511.01	501.75	511.99
480.14	487.33	487.86	483.73	494.85	494.14	502.02	503.96
480.23	481.88	487.95	486.28	494.94	497.08	502.21	506.05
480.32	489.13	488.04	486.65	495.03	499.58	502.30	497.18
480.41	490.67	488.14	494.53	495.13	491.81	502.39	512.26
480.50	487.27	488.23	499.39	495.22	500.06	502.48	496.61
480.60	480.40	488.32	503.67	495.31	497.85	502.58	514.60
480.78	481.87	488.41	484.17	495.40	492.85	502.67	512.17
480.87	487.53	488.50	487.03	495.49	498.76	502.76	497.58
480.96	480.40	488.60	487.71	495.68	506.68	502.85	507.03
481.06	497.84	488.69	487.13	495.77	492.68	502.94	500.01
481.24	482.19	488.78	495.66	495.95	497.95	503.04	514.46
481.33	478.56	488.87	488.17	496.05	499.07	503.13	515.55
481.42	485.59	488.96	487.66	496.14	507.33	503.31	506.98
481.61	489.33	489.06	491.00	496.23	499.58	503.40	499.27
481.79	482.27	489.24	500.97	496.32	494.94	503.50	506.21
481.88	491.49	489.42	493.38	496.41	478.45	503.68	504.56
481.98	467.57	489.61	496.36	496.51	490.88	503.77	512.60
482.07	488.50	489.70	471.23	496.60	502.32	503.86	485.28
482.34	498.00	489.79	497.62	496.69	501.75	503.96	510.55
482.44	490.90	489.98	503.26	496.78	501.50	504.14	505.35
482.53	490.36	490.16	489.08	496.87	499.28	504.23	498.83



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
504.32	505.95	511.04	504.28	518.12	519.58	525.93	519.57
504.41	515.27	511.13	510.39	518.30	517.04	526.21	531.08
504.51	506.94	511.22	508.91	518.39	532.85	526.30	534.64
504.60	515.79	511.31	511.74	518.49	517.21	526.39	537.75
504.69	505.89	511.40	511.16	518.85	518.17	526.49	529.86
504.87	513.72	511.50	512.79	518.95	513.94	526.76	516.82
504.97	500.38	511.68	510.13	519.04	517.59	527.04	513.15
505.06	498.48	511.86	510.13	519.13	525.38	527.13	531.21
505.15	515.94	511.96	502.37	519.22	518.12	527.41	531.39
505.33	515.37	512.05	510.64	519.41	517.79	527.50	532.87
505.52	503.90	512.14	512.95	519.68	517.29	527.59	534.04
505.70	506.91	512.23	519.33	519.87	521.78	527.87	529.22
505.79	507.89	512.42	521.48	519.96	514.89	527.96	531.11
505.89	500.26	512.51	521.27	520.14	526.22	528.05	528.06
505.98	507.61	512.69	511.23	520.23	517.60	528.14	541.24
506.07	505.32	512.97	513.95	520.42	518.85	528.23	531.74
506.16	507.08	513.06	529.34	520.51	529.09	528.42	536.55
506.35	503.74	513.15	522.16	520.60	524.15	528.60	539.60
506.44	498.07	513.34	518.67	520.69	531.57	528.79	532.07
506.53	509.43	513.52	523.22	520.78	517.69	528.88	524.21
506.62	507.19	513.61	505.70	520.88	526.48	529.15	530.85
506.71	515.36	513.70	512.06	520.97	530.73	529.34	525.33
506.81	516.46	513.80	519.48	521.15	535.95	529.52	521.94
506.90	508.29	513.89	510.97	521.24	537.15	529.61	532.18
506.99	508.62	513.98	520.78	521.43	519.11	529.80	534.46
507.08	515.34	514.07	521.90	521.61	521.52	529.89	533.84
507.17	517.71	514.16	510.87	521.70	526.81	529.98	538.83
507.27	507.48	514.26	509.36	521.80	519.05	530.07	531.07
507.45	516.84	514.44	528.91	521.89	522.41	530.17	533.06
507.54	524.81	514.53	505.85	521.98	519.87	530.26	541.51
507.63	502.98	514.62	522.99	522.16	525.48	530.35	532.45
507.82	508.87	514.72	515.97	522.26	518.22	530.44	533.62
508.00	512.90	514.81	510.81	522.44	527.96	530.63	534.30
508.09	507.99	514.90	525.36	522.72	529.38	530.72	532.39
508.19	501.15	514.99	512.22	522.81	526.76	530.81	524.20
508.28	508.81	515.17	514.33	522.90	527.90	530.90	532.74
508.46	508.96	515.27	513.76	522.99	519.79	531.08	538.64
508.55	518.83	515.36	515.10	523.08	530.64	531.18	531.51
508.65	499.53	515.45	523.08	523.18	527.66	531.27	525.22
508.83	508.90	515.54	532.42	523.27	527.06	531.45	534.73
508.92	505.76	515.63	514.39	523.36	537.58	531.54	527.15
509.01	510.35	516.00	511.86	523.45	530.08	531.64	530.63
509.11	510.18	516.09	524.73	523.54	526.25	531.73	544.55
509.20	507.21	516.28	527.11	523.64	515.31	532.00	526.29
509.29	516.29	516.55	514.64	523.91	520.05	532.10	532.21
509.38	509.21	516.65	510.00	524.00	532.57	532.19	535.44
509.47	511.05	516.74	512.33	524.10	520.86	532.28	545.51
509.56	516.82	516.83	514.76	524.19	528.89	532.46	533.11
509.75	504.47	516.92	521.67	524.37	519.99	532.74	507.25
509.84	505.60	517.01	516.88	524.65	519.84	532.83	528.81
509.93	519.52	517.11	525.97	524.83	529.65	533.02	532.04
510.02	502.13	517.20	519.74	524.92	530.80	533.11	535.29
510.12	522.17	517.29	513.12	525.02	528.94	533.20	527.86
510.21	506.71	517.38	520.83	525.11	533.84	533.29	537.61
510.39	517.79	517.47	524.53	525.20	528.33	533.38	530.34
510.48	509.77	517.57	518.10	525.29	518.33	533.57	542.99
510.58	518.74	517.66	523.26	525.38	527.73	533.66	526.17
510.76	517.74	517.75	532.83	525.48	528.88	533.75	545.03
510.85	527.80	517.84	534.00	525.57	534.87	533.84	528.38
510.94	513.35	517.93	511.74	525.84	531.04	534.03	535.74

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
534.12	543.03	542.40	541.69	551.13	549.72	562.35	567.81
534.21	528.12	542.67	553.71	551.23	551.04	562.63	554.57
534.49	542.97	542.76	532.32	551.41	555.64	563.27	559.30
534.67	539.75	542.86	540.75	551.50	558.03	563.82	557.17
534.76	537.16	543.04	537.51	551.69	537.06	563.92	565.98
534.86	538.37	543.13	551.95	551.78	558.70	564.01	546.84
534.95	527.19	543.22	543.47	551.87	539.61	564.10	569.67
535.32	525.51	543.32	554.75	552.15	557.21	564.19	553.79
535.41	526.71	543.50	550.54	552.24	551.32	564.47	571.91
535.50	536.75	543.59	542.15	552.33	561.29	564.56	573.50
535.78	538.62	543.68	543.40	552.42	562.75	564.93	569.77
535.87	527.03	543.87	542.74	552.79	549.33	565.02	561.33
536.05	532.51	543.96	533.54	552.97	551.00	565.30	559.21
536.14	527.11	544.05	541.21	553.16	555.11	565.39	559.49
536.33	528.77	544.14	531.02	553.52	558.16	565.66	567.45
536.42	529.34	544.24	554.56	553.71	551.52	565.76	557.67
536.51	530.81	544.60	541.52	553.89	550.82	565.94	561.15
536.60	534.05	544.79	540.86	553.98	551.73	566.03	570.86
536.69	549.71	544.88	544.24	554.44	558.32	566.22	560.48
536.79	526.17	545.06	541.45	554.90	563.27	566.40	559.31
536.88	529.10	545.25	545.79	555.18	544.42	566.49	569.20
537.15	546.46	545.34	542.92	555.27	551.76	566.58	570.78
537.25	531.25	545.43	544.18	555.55	557.35	567.23	574.07
537.34	536.87	545.62	541.80	555.82	554.90	567.69	568.70
537.43	530.64	545.71	551.30	555.92	560.46	567.87	571.56
537.61	543.70	545.80	542.86	556.01	560.75	568.06	566.41
537.89	530.05	545.89	536.69	556.10	560.84	568.15	568.33
537.98	546.48	545.98	544.54	556.19	561.15	568.24	571.00
538.17	549.38	546.35	543.21	556.38	560.38	568.33	573.86
538.26	541.28	546.44	545.37	556.47	552.63	568.52	571.76
538.35	546.41	546.54	536.12	556.74	552.84	568.79	570.92
538.44	538.36	546.63	537.28	557.30	554.00	568.97	570.09
538.53	529.81	546.72	546.61	557.39	562.51	569.07	575.09
538.63	538.94	547.00	557.02	557.48	553.28	569.25	573.73
538.72	529.20	547.09	558.42	557.66	563.21	569.43	575.35
538.81	539.43	547.27	544.68	557.76	553.93	569.89	563.16
538.90	530.29	547.36	554.25	557.94	558.15	570.26	574.71
538.99	529.75	547.55	553.53	558.21	553.04	570.81	570.85
539.18	540.70	547.64	546.50	558.31	544.72	571.00	562.13
539.36	540.05	547.73	547.78	558.77	551.89	571.09	572.73
539.45	546.96	547.82	557.87	558.86	567.23	571.18	574.36
539.55	538.77	547.91	535.62	559.23	554.85	571.37	576.97
539.64	540.63	548.01	553.46	559.50	566.04	571.55	578.44
539.73	532.21	548.19	543.99	559.59	553.41	571.64	572.65
539.82	543.13	548.28	551.59	559.69	554.78	572.01	568.61
540.10	537.89	548.56	543.93	559.78	568.15	572.10	575.93
540.47	531.01	548.83	547.43	560.33	555.17	572.29	565.91
540.56	538.78	549.02	538.01	560.42	556.24	572.38	555.45
540.74	549.89	549.11	537.12	560.51	554.45	572.47	575.91
540.83	542.31	549.39	547.68	560.61	568.18	572.56	565.56
540.93	541.46	549.48	538.31	560.79	555.10	572.75	570.24
541.29	540.16	549.57	550.22	561.07	559.17	573.02	568.42
541.57	546.53	549.85	554.31	561.16	545.78	573.11	564.42
541.66	547.83	549.94	547.70	561.43	567.58	573.21	573.74
541.75	536.38	550.12	548.24	561.53	557.35	573.30	577.81
541.94	541.75	550.31	547.57	561.62	566.64	573.39	579.50
542.03	545.98	550.40	558.63	561.99	565.04	573.48	574.51
542.12	542.50	550.67	557.14	562.08	558.99	574.03	565.35
542.21	548.61	550.95	550.59	562.17	564.99	574.12	566.85
542.30	533.18	551.04	558.39	562.26	556.03	574.31	578.83

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
574.68	566.50	583.60	585.40	593.62	590.72	607.23	606.54
574.86	565.70	583.87	586.74	593.90	593.51	608.15	601.32
575.04	576.85	583.97	581.67	593.99	595.97	608.70	605.98
575.23	566.42	584.43	585.56	594.08	597.95	609.26	603.71
575.32	567.17	584.70	584.98	594.45	575.15	609.35	605.87
575.87	566.85	584.88	583.66	594.63	593.04	609.62	604.73
576.24	580.10	585.25	584.51	594.73	594.47	609.90	610.60
576.33	569.72	585.80	586.07	594.82	594.97	610.64	607.30
576.98	577.99	586.91	584.52	595.55	580.99	612.66	611.72
577.07	566.60	587.18	590.20	596.29	590.52	616.34	613.15
577.25	579.75	587.37	588.51	596.75	588.54	617.17	612.95
577.34	579.67	587.64	587.53	597.30	598.66	617.62	614.53
577.53	578.77	587.83	586.56	597.39	590.32	622.04	621.06
577.62	583.62	587.92	588.42	597.67	598.98	623.60	619.38
577.80	579.58	588.01	576.37	597.76	595.60	624.43	620.16
578.54	567.73	588.20	587.44	599.32	599.40	624.61	622.57
579.00	577.01	588.29	591.34	600.24	599.94	626.55	621.25
579.18	576.02	588.93	588.53	600.98	599.45	627.37	623.35
579.37	580.77	589.39	591.18	602.36	598.22	627.65	627.18
579.46	571.02	589.58	593.08	602.45	604.10	628.48	623.43
579.55	584.73	589.76	585.54	602.54	601.39	629.95	621.99
579.83	576.89	590.13	587.71	602.82	601.23	630.32	624.91
579.92	578.92	590.22	589.58	603.19	600.96	630.59	623.58
580.10	568.67	590.77	587.61	603.37	588.59	631.05	624.78
580.56	561.67	591.41	577.75	603.92	598.36	634.73	630.08
581.48	571.50	591.69	591.35	604.84	605.20	643.84	638.05
582.22	584.44	591.78	579.51	606.13	604.64	652.48	646.15
582.49	583.49	591.97	596.70	606.41	607.40	655.15	647.06
582.77	584.34	592.15	588.19	606.77	604.53	665.54	658.39
582.86	585.65	592.61	593.76	607.05	590.13		

## Appendix G

## Score Conversion Tables from Concurrent Calibrations – Science as Major Domains

Table G.1

Original PISA scores (PV1) to new score

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
190.05	287.68	266.24	322.47	288.28	365.69	300.39	355.87
191.18	283.36	266.53	356.53	288.29	335.50	300.41	245.38
203.22	411.79	266.99	357.65	288.39	308.85	300.44	256.58
203.96	310.81	267.54	348.74	288.48	301.02	300.63	299.60
208.35	263.81	267.89	286.26	288.85	484.22	300.70	369.30
209.48	284.77	267.90	243.36	289.00	289.60	300.94	359.15
213.67	256.62	268.68	319.89	289.62	351.60	301.30	339.10
218.87	255.60	269.25	280.46	289.84	323.49	301.38	259.72
220.02	272.93	269.39	320.04	290.02	303.09	302.29	348.13
220.94	229.98	270.48	381.17	290.17	399.22	302.70	314.92
225.01	292.10	270.83	274.03	290.25	287.08	302.89	399.52
227.92	334.19	270.87	330.51	290.94	322.82	302.97	425.81
227.94	388.51	271.48	304.90	291.72	308.72	303.32	284.90
227.96	248.59	271.72	241.68	291.77	433.74	303.33	390.99
228.05	275.79	273.58	340.14	291.80	344.59	303.52	330.31
234.18	269.07	274.12	288.82	291.92	347.41	304.19	291.27
238.51	251.83	274.32	366.20	292.06	287.02	304.44	319.80
238.56	250.82	274.73	318.58	292.13	338.15	304.47	309.22
238.76	322.32	275.81	333.89	292.20	246.89	304.54	342.44
243.30	328.52	276.03	328.33	292.42	316.37	304.65	360.35
244.03	226.64	276.95	240.42	292.82	283.14	304.70	336.60
248.23	310.22	277.30	349.23	293.17	288.13	305.15	305.51
249.11	308.69	277.48	410.30	293.29	441.23	305.43	346.11
249.73	313.60	277.92	389.25	293.54	356.33	305.77	338.27
250.07	331.73	278.03	225.52	293.58	297.58	306.02	330.08
250.63	329.18	278.42	395.15	293.94	262.24	306.05	378.77
250.80	286.41	279.56	311.13	294.18	300.78	306.68	315.45
251.02	254.42	280.35	278.39	294.75	281.72	306.83	335.67
252.22	296.97	280.47	288.59	294.77	448.47	306.88	343.25
253.76	304.03	281.15	292.96	295.22	361.84	307.17	314.58
254.33	290.38	281.59	295.28	295.52	339.25	307.19	287.75
254.36	278.30	282.13	328.71	295.80	323.53	307.36	300.62
256.86	320.17	282.76	-100.00	296.17	429.90	307.53	362.13
258.54	282.74	282.97	409.30	296.50	324.68	307.57	302.49
259.01	214.90	283.75	327.49	296.97	351.40	307.60	290.03
259.44	455.07	283.87	340.38	297.11	357.44	307.62	339.02
260.58	284.71	284.17	293.70	297.59	433.82	307.80	386.53
260.70	328.04	284.90	347.98	297.85	355.80	308.07	273.58
260.80	339.30	285.82	270.90	297.94	299.17	308.35	352.18
261.13	243.42	286.11	329.60	298.55	298.70	308.46	344.34
261.51	403.38	286.18	330.27	299.03	393.23	308.52	271.87
262.25	281.50	286.31	295.90	299.24	319.26	308.55	413.63
263.47	289.64	286.49	324.67	299.52	324.86	308.68	306.74
263.89	320.71	286.50	329.40	299.74	263.52	308.76	348.41
264.08	312.69	286.54	292.62	299.90	247.07	308.89	266.20
265.18	315.18	286.94	330.76	299.99	375.66	308.96	338.58
265.73	295.66	287.34	289.69	300.17	320.45	309.07	327.77
265.99	345.22	287.57	286.22	300.26	323.38	309.10	338.26
266.01	285.74	287.98	370.02	300.29	330.58	309.29	397.41

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
309.36	332.17	317.21	346.39	323.65	314.09	328.88	310.20
309.50	357.24	317.42	-100.00	323.67	357.07	328.96	350.93
309.53	380.50	317.45	350.02	323.83	283.77	328.97	363.09
309.65	221.75	317.50	404.11	324.06	367.93	328.99	371.84
309.72	307.13	317.72	322.58	324.09	281.03	329.09	351.69
309.81	311.34	317.96	362.68	324.17	359.23	329.17	313.19
309.90	398.21	318.02	421.15	324.34	336.87	329.26	349.67
310.02	316.42	318.04	399.76	324.50	346.66	329.32	412.30
310.14	314.69	318.05	416.90	324.54	312.98	329.44	371.06
310.38	278.82	318.26	378.01	324.67	359.24	329.53	309.51
310.50	334.51	318.31	406.60	324.69	448.49	329.57	363.25
311.09	345.95	318.36	333.70	324.72	323.32	329.67	383.24
311.26	220.17	318.58	298.92	324.82	365.44	329.68	431.30
311.87	343.64	318.59	335.84	324.84	327.54	329.71	381.15
311.99	341.53	318.73	301.59	325.02	351.84	329.72	365.07
312.02	369.13	318.74	321.09	325.06	461.21	329.78	333.30
312.05	372.26	319.11	305.83	325.21	379.11	330.17	390.72
312.12	345.83	319.12	331.45	325.22	353.55	330.35	369.52
312.14	347.94	319.47	286.80	325.27	264.89	330.44	334.96
312.80	382.27	319.51	362.34	325.28	310.87	330.56	378.15
313.13	360.91	319.53	318.21	325.30	364.86	330.75	347.94
313.27	452.04	319.58	293.18	325.33	341.59	330.86	227.40
313.37	336.41	319.62	235.01	325.40	419.13	330.89	304.15
313.56	337.44	319.82	372.79	325.86	302.16	330.91	362.03
313.59	425.11	319.84	373.43	325.93	325.26	330.93	370.18
313.65	310.03	319.90	300.39	326.06	306.65	330.97	414.47
313.95	391.81	319.94	366.71	326.10	385.19	331.08	322.28
314.05	273.26	320.06	373.78	326.14	361.41	331.19	374.05
314.20	294.84	320.37	347.23	326.32	313.77	331.20	335.86
314.40	342.87	320.49	310.86	326.38	264.71	331.28	451.68
314.45	347.64	320.63	406.35	326.41	328.93	331.33	344.84
314.46	324.08	320.73	309.26	326.58	355.83	331.54	255.19
314.55	296.98	320.86	286.21	326.60	335.97	331.55	251.05
314.57	326.10	320.96	327.25	326.80	452.75	331.56	352.67
314.62	338.36	321.07	394.60	326.89	274.90	331.60	355.77
314.82	341.94	321.08	307.34	326.91	345.98	331.73	303.96
315.11	385.62	321.10	298.84	326.96	395.60	331.78	355.90
315.12	340.82	321.16	318.07	327.15	315.55	331.92	372.63
315.17	450.43	321.30	369.59	327.16	278.83	331.95	359.09
315.22	312.41	321.32	260.62	327.40	442.53	331.99	454.64
315.26	339.27	321.33	345.08	327.45	394.42	332.04	289.09
315.27	272.70	321.50	378.90	327.51	347.70	332.08	317.10
315.52	336.16	321.52	407.02	327.52	336.64	332.12	413.44
315.53	339.45	321.62	463.45	327.55	335.87	332.13	303.39
315.78	375.49	322.16	301.13	327.58	276.90	332.26	307.70
315.79	335.68	322.17	348.92	327.69	315.18	332.38	398.70
315.92	416.92	322.25	385.24	327.88	370.67	332.49	295.62
315.96	384.20	322.32	330.48	327.90	336.08	332.57	359.62
316.04	324.87	322.47	403.76	327.96	336.41	332.67	325.84
316.12	294.69	322.48	332.12	328.08	306.62	332.90	325.23
316.13	347.68	322.81	388.98	328.20	296.19	332.93	379.30
316.28	328.48	322.97	314.49	328.36	340.91	332.97	402.84
316.31	325.76	323.05	335.58	328.42	297.86	333.22	327.38
316.33	343.82	323.24	294.84	328.47	315.46	333.25	345.66
316.50	322.84	323.27	325.33	328.58	331.13	333.28	380.07
316.51	419.81	323.37	319.74	328.60	403.53	333.43	344.84
316.55	323.97	323.41	368.90	328.78	331.96	333.68	343.09
316.60	345.18	323.43	303.65	328.79	395.80	333.70	437.99
316.73	313.32	323.52	369.07	328.80	316.77	333.77	383.75
316.74	326.65	323.54	318.85	328.85	430.32	333.80	328.07

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
333.81	292.15	338.04	401.05	342.44	350.80	346.74	391.81
333.85	332.18	338.11	366.44	342.46	354.84	346.75	413.01
333.87	368.34	338.18	341.21	342.48	335.36	346.76	378.53
333.88	450.05	338.35	341.43	342.55	451.18	346.84	392.11
334.01	323.22	338.42	326.16	342.62	282.48	346.85	325.26
334.15	214.11	338.46	300.92	342.63	336.11	346.88	347.15
334.25	329.42	338.54	359.53	342.82	350.66	346.90	335.05
334.42	355.58	338.61	385.83	342.95	449.43	346.95	389.26
334.53	379.04	338.81	416.39	343.01	380.18	347.05	304.73
334.55	383.18	338.84	345.18	343.04	307.79	347.11	397.73
334.63	285.17	338.94	349.52	343.05	352.07	347.13	345.82
334.64	456.43	339.09	344.61	343.12	382.56	347.18	372.17
334.70	342.18	339.16	360.77	343.33	431.17	347.26	328.30
334.77	323.24	339.27	426.06	343.37	357.94	347.28	381.86
334.79	356.32	339.28	307.38	343.44	410.32	347.34	376.74
334.89	325.27	339.42	314.59	343.54	292.24	347.44	306.51
334.93	369.01	339.44	359.27	343.65	312.44	347.51	363.28
335.01	248.43	339.45	345.03	343.77	338.38	347.54	273.71
335.06	412.71	339.55	234.56	343.87	350.38	347.55	369.07
335.07	341.19	339.61	295.58	343.88	415.31	347.57	432.59
335.19	348.06	339.70	349.55	343.95	309.97	347.65	367.10
335.21	370.50	339.72	348.19	344.01	350.69	347.66	373.36
335.22	345.38	339.88	376.06	344.15	341.92	347.82	429.43
335.41	368.89	339.92	306.67	344.25	353.96	347.86	394.34
335.44	311.65	339.97	311.25	344.32	317.47	347.87	310.34
335.54	352.42	339.99	335.53	344.43	429.47	347.98	345.37
335.75	351.38	340.04	384.79	344.62	279.49	348.07	330.19
335.76	333.27	340.06	324.01	344.65	354.47	348.16	321.39
335.77	348.80	340.16	400.23	344.76	320.71	348.21	351.12
335.97	362.25	340.22	329.94	344.90	337.38	348.33	319.36
336.10	449.22	340.30	363.21	344.91	339.93	348.43	328.40
336.24	367.05	340.33	355.75	344.92	439.30	348.46	353.82
336.28	375.38	340.34	358.86	345.04	453.47	348.48	353.51
336.39	442.80	340.36	318.54	345.17	389.60	348.50	358.52
336.41	410.29	340.38	364.58	345.19	273.99	348.64	361.99
336.49	336.43	340.47	431.31	345.27	364.75	348.98	397.96
336.50	407.03	340.51	312.37	345.29	314.32	349.04	392.21
336.53	385.99	340.64	272.66	345.48	380.01	349.06	417.95
336.59	240.92	340.65	383.57	345.60	321.68	349.16	403.16
336.60	313.19	340.68	372.50	345.68	397.96	349.18	429.51
336.74	384.51	340.79	317.43	345.71	362.58	349.20	339.00
336.75	371.42	340.81	421.25	345.73	395.75	349.24	352.31
336.94	397.93	340.94	323.14	345.75	330.30	349.36	350.49
337.01	376.28	341.00	315.96	345.88	344.16	349.37	329.69
337.02	358.93	341.04	308.94	345.94	433.81	349.48	337.49
337.12	335.72	341.29	349.27	346.03	281.36	349.49	342.58
337.36	342.62	341.31	439.28	346.07	297.96	349.59	365.35
337.37	325.62	341.36	351.44	346.10	337.69	349.72	354.78
337.55	322.92	341.43	392.56	346.14	395.03	349.74	344.86
337.65	345.95	341.57	373.07	346.37	380.12	349.78	292.57
337.72	321.59	341.64	374.73	346.40	358.10	349.81	328.17
337.73	335.65	341.72	431.21	346.41	394.13	349.82	314.29
337.74	369.60	341.90	268.60	346.44	363.76	349.83	337.08
337.79	339.29	341.95	370.48	346.47	431.21	349.90	426.89
337.85	200.73	341.99	376.57	346.52	332.63	350.00	354.75
337.87	365.53	342.00	376.32	346.53	485.99	350.04	375.53
337.91	377.80	342.11	406.19	346.66	387.03	350.10	465.02
337.93	342.14	342.14	367.35	346.68	439.67	350.13	395.67
337.96	367.16	342.15	286.67	346.72	323.84	350.14	-100.00
337.97	341.66	342.27	342.88	346.73	453.61	350.17	355.55

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
350.19	352.07	353.43	442.90	356.09	365.39	359.18	357.32
350.30	359.78	353.45	368.14	356.13	430.76	359.21	387.86
350.32	358.90	353.58	338.02	356.21	395.83	359.26	343.88
350.35	288.26	353.59	429.20	356.22	401.21	359.27	446.04
350.38	367.83	353.66	309.36	356.24	376.42	359.30	298.81
350.44	352.42	353.68	362.42	356.26	341.03	359.33	482.26
350.49	330.09	353.84	359.02	356.49	370.32	359.34	411.83
350.60	429.71	353.94	351.67	356.57	344.45	359.37	361.19
350.79	320.78	353.95	314.28	356.58	416.33	359.40	375.64
350.81	487.52	354.02	368.92	356.64	342.19	359.60	272.27
350.91	410.31	354.07	351.10	356.65	411.00	359.71	422.48
350.92	363.55	354.12	380.16	356.70	425.13	359.75	404.83
350.95	350.22	354.13	365.58	356.78	354.99	359.76	372.47
351.02	397.98	354.19	333.78	356.81	399.06	359.79	397.48
351.04	338.68	354.20	325.12	356.90	382.86	359.81	428.98
351.09	406.08	354.22	389.32	356.91	266.87	359.88	366.83
351.11	346.13	354.24	324.71	356.96	424.30	359.93	339.09
351.18	404.57	354.26	370.45	357.03	410.61	359.94	333.07
351.26	332.62	354.33	293.33	357.06	355.29	359.95	399.22
351.37	372.14	354.39	344.05	357.08	417.11	360.03	429.66
351.49	320.30	354.42	398.61	357.13	385.40	360.09	326.36
351.50	341.25	354.50	355.43	357.19	391.55	360.10	319.45
351.51	342.47	354.51	411.40	357.23	387.57	360.13	419.88
351.61	347.81	354.53	394.83	357.26	275.54	360.17	353.80
351.63	273.05	354.63	441.52	357.30	318.40	360.18	432.66
351.65	378.46	354.69	344.81	357.32	376.86	360.19	304.45
351.89	327.82	354.72	386.87	357.39	299.03	360.30	377.94
351.94	378.06	354.78	423.05	357.45	311.56	360.34	344.71
351.95	359.37	354.81	351.42	357.47	391.57	360.35	389.39
351.96	377.60	354.87	292.21	357.50	361.91	360.36	327.80
352.08	426.49	354.89	281.41	357.57	337.48	360.38	336.66
352.09	277.15	354.90	288.09	357.61	408.87	360.39	420.59
352.18	370.83	354.96	372.53	357.64	298.00	360.46	321.39
352.20	449.54	355.09	353.59	357.74	346.73	360.47	327.95
352.25	473.04	355.15	413.87	357.76	420.62	360.49	368.38
352.26	430.78	355.21	347.12	357.79	390.30	360.50	384.79
352.29	362.62	355.23	362.15	357.86	307.24	360.56	360.92
352.33	342.34	355.36	297.65	357.91	417.92	360.58	366.68
352.46	425.12	355.41	347.28	357.95	342.43	360.62	351.93
352.47	457.45	355.44	429.17	358.00	329.46	360.65	293.60
352.50	412.69	355.45	343.50	358.01	369.68	360.66	346.04
352.51	338.73	355.47	325.96	358.05	336.54	360.67	411.53
352.53	418.05	355.52	476.76	358.14	363.17	360.70	347.99
352.73	376.66	355.56	295.09	358.16	310.13	360.73	375.02
352.79	388.02	355.58	363.95	358.26	368.55	360.75	325.76
352.85	466.85	355.62	404.44	358.30	284.84	360.81	307.35
352.92	395.00	355.64	449.65	358.35	427.00	360.89	357.85
352.93	259.16	355.66	366.50	358.40	534.89	360.96	385.42
352.95	386.66	355.72	368.81	358.42	300.61	360.98	382.78
353.04	313.22	355.75	369.30	358.48	436.17	361.09	387.05
353.09	337.54	355.78	388.37	358.54	435.93	361.11	415.81
353.10	404.34	355.85	361.06	358.66	349.54	361.14	374.27
353.11	384.33	355.91	301.80	358.67	354.30	361.16	368.30
353.16	343.39	355.92	357.21	358.71	339.14	361.22	366.32
353.23	387.49	355.93	345.02	358.80	432.13	361.34	391.74
353.28	315.38	355.96	352.37	358.85	328.21	361.35	377.22
353.32	337.01	355.99	301.65	358.93	484.64	361.42	417.66
353.34	348.49	356.02	412.52	358.94	372.69	361.43	364.04
353.35	347.38	356.03	386.65	359.01	423.86	361.57	378.46
353.36	326.14	356.05	379.38	359.12	288.89	361.63	330.05

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
361.67	350.22	364.01	366.43	366.66	377.50	369.09	357.79
361.71	314.76	364.06	354.36	366.75	333.71	369.11	377.21
361.78	439.96	364.10	377.43	366.77	384.09	369.20	320.89
361.82	385.03	364.11	418.27	366.85	394.99	369.21	486.83
361.83	403.67	364.14	420.07	366.86	346.82	369.23	360.65
361.84	407.61	364.19	374.55	366.92	446.19	369.29	379.71
361.85	343.64	364.34	424.69	366.95	362.31	369.32	423.39
361.90	395.67	364.44	309.83	366.99	404.63	369.33	341.56
361.91	341.81	364.50	463.57	367.02	335.79	369.38	354.54
361.98	371.34	364.53	347.74	367.05	355.99	369.50	331.27
362.00	388.12	364.54	371.63	367.06	342.18	369.51	425.42
362.04	381.21	364.61	362.65	367.07	408.25	369.55	442.96
362.05	338.16	364.66	374.94	367.09	345.50	369.61	401.19
362.07	312.03	364.68	448.06	367.15	363.52	369.66	392.11
362.11	387.82	364.79	362.47	367.19	414.64	369.71	392.38
362.15	371.26	364.92	391.78	367.21	339.97	369.78	362.97
362.19	303.47	364.95	370.27	367.22	432.57	369.81	283.93
362.21	414.96	364.97	427.93	367.23	371.05	369.83	364.83
362.25	339.86	364.99	380.35	367.29	345.47	369.87	420.25
362.34	411.23	365.03	437.14	367.30	350.52	369.93	349.75
362.38	348.70	365.06	356.96	367.44	407.27	369.95	353.07
362.39	411.79	365.08	354.07	367.48	368.64	369.96	309.02
362.42	425.20	365.11	427.55	367.52	361.07	369.98	414.65
362.48	381.42	365.14	357.77	367.54	384.97	370.03	371.17
362.52	350.73	365.16	436.93	367.61	443.83	370.05	315.61
362.55	385.10	365.30	459.97	367.63	364.55	370.12	417.86
362.56	327.53	365.35	299.93	367.66	337.15	370.19	383.61
362.59	344.23	365.38	306.66	367.67	338.35	370.21	378.76
362.60	390.55	365.39	439.14	367.68	318.07	370.28	343.82
362.67	386.42	365.49	422.56	367.69	346.26	370.33	342.20
362.69	289.26	365.54	433.27	367.77	346.55	370.35	340.64
362.83	423.65	365.57	375.62	367.81	303.52	370.37	437.49
362.84	371.83	365.59	325.06	367.83	403.73	370.44	403.71
362.86	345.88	365.74	345.48	367.90	354.62	370.46	375.11
362.93	422.47	365.75	403.02	368.07	421.95	370.48	381.04
362.94	443.05	365.77	369.20	368.08	405.11	370.49	329.33
362.97	288.23	365.81	318.02	368.15	385.95	370.50	395.66
363.08	422.57	365.82	460.52	368.18	401.34	370.56	389.71
363.22	373.56	365.93	327.63	368.22	382.19	370.69	351.65
363.23	-100.00	365.96	428.18	368.30	335.74	370.71	364.55
363.31	280.68	365.98	461.48	368.31	349.66	370.73	349.55
363.35	362.37	366.05	387.67	368.36	444.96	370.75	291.89
363.41	393.33	366.06	305.33	368.37	368.55	370.80	390.87
363.43	310.87	366.08	336.95	368.41	349.03	370.84	391.79
363.50	376.65	366.10	284.94	368.44	355.63	370.89	446.81
363.53	315.69	366.13	394.44	368.47	321.29	370.90	429.09
363.55	305.84	366.14	422.86	368.56	364.84	370.91	344.10
363.58	361.91	366.19	366.32	368.64	364.48	370.93	380.27
363.62	347.73	366.25	391.91	368.67	314.56	370.99	316.95
363.64	416.82	366.27	426.25	368.69	334.78	371.03	392.28
363.68	378.32	366.28	365.51	368.72	317.38	371.09	423.74
363.69	317.76	366.31	358.96	368.73	381.31	371.10	397.76
363.75	355.24	366.34	353.99	368.76	342.50	371.14	358.55
363.77	285.68	366.35	341.16	368.82	431.75	371.24	438.37
363.82	352.15	366.37	395.45	368.87	395.32	371.26	403.64
363.84	435.36	366.47	333.34	368.90	411.01	371.34	369.65
363.94	422.09	366.48	346.48	368.95	454.89	371.39	324.52
363.97	307.20	366.49	418.69	368.98	415.91	371.50	422.32
363.98	388.92	366.57	364.33	369.01	340.82	371.52	307.66
364.00	356.63	366.64	430.05	369.03	325.76	371.55	388.58



PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
371.60	393.84	373.66	306.46	375.94	439.39	378.38	429.09
371.64	358.62	373.68	406.46	376.09	356.85	378.39	390.36
371.71	366.77	373.73	379.37	376.10	465.26	378.44	351.64
371.73	417.15	373.75	295.57	376.15	412.58	378.45	304.07
371.76	377.34	373.78	381.54	376.20	357.09	378.46	343.38
371.77	443.78	373.80	347.49	376.21	347.57	378.49	312.37
371.79	377.85	373.83	338.48	376.26	396.76	378.51	383.71
371.80	374.47	373.87	469.05	376.27	372.41	378.57	426.69
371.85	368.25	373.91	389.47	376.33	331.32	378.61	399.53
371.94	390.08	373.95	371.14	376.34	335.05	378.62	323.88
371.99	334.29	374.04	390.48	376.35	285.69	378.63	356.34
372.07	342.71	374.06	330.99	376.37	397.25	378.70	490.67
372.11	424.75	374.09	290.44	376.41	401.71	378.85	361.28
372.12	342.73	374.12	425.80	376.47	364.80	378.91	414.80
372.16	405.34	374.14	414.02	376.50	436.45	378.92	406.60
372.17	399.55	374.23	387.17	376.53	361.98	379.00	392.96
372.22	384.15	374.24	379.66	376.55	407.98	379.03	429.77
372.28	470.11	374.27	340.84	376.60	409.99	379.04	384.02
372.29	370.86	374.29	393.77	376.61	426.03	379.08	187.74
372.31	354.38	374.36	383.34	376.63	400.09	379.09	425.69
372.32	380.11	374.45	394.61	376.66	374.45	379.11	368.36
372.33	380.58	374.48	377.30	376.69	441.86	379.12	458.64
372.35	325.34	374.51	322.66	376.82	432.40	379.13	381.93
372.36	266.28	374.57	399.80	376.83	428.65	379.18	428.04
372.51	390.85	374.61	326.08	376.84	464.01	379.21	383.76
372.52	331.25	374.63	385.40	376.85	321.99	379.25	388.17
372.55	397.28	374.66	335.06	376.87	393.54	379.31	321.59
372.56	418.37	374.67	399.17	376.90	375.13	379.32	343.44
372.60	413.32	374.75	355.35	376.97	396.06	379.40	311.00
372.68	396.23	374.78	293.92	376.98	424.47	379.42	351.64
372.70	375.39	374.80	326.43	377.01	376.65	379.44	423.47
372.73	365.98	374.81	388.84	377.05	362.21	379.48	453.45
372.76	351.04	374.84	439.80	377.12	380.00	379.49	356.03
372.77	403.61	374.86	351.77	377.15	318.81	379.51	386.90
372.82	362.57	374.91	434.35	377.24	381.04	379.56	332.59
372.86	399.77	374.95	343.22	377.26	341.13	379.57	388.59
372.88	369.73	375.07	311.13	377.27	525.25	379.62	416.01
372.90	431.07	375.10	388.21	377.33	283.44	379.63	298.82
372.93	417.44	375.11	349.92	377.36	271.49	379.66	363.61
372.95	329.18	375.12	376.20	377.42	321.52	379.67	393.38
373.00	402.16	375.19	433.68	377.50	420.91	379.71	384.24
373.07	312.67	375.22	303.11	377.51	349.94	379.77	421.76
373.09	344.81	375.31	379.58	377.52	379.79	379.78	379.21
373.10	354.24	375.35	501.99	377.56	434.64	379.89	391.81
373.16	474.69	375.47	374.60	377.57	336.68	379.90	433.81
373.20	266.70	375.50	357.78	377.60	469.90	379.95	354.41
373.21	405.27	375.52	421.77	377.68	404.92	380.01	337.93
373.23	383.28	375.57	348.05	377.79	315.42	380.04	379.98
373.24	425.72	375.60	390.01	377.93	344.38	380.06	361.36
373.27	413.40	375.62	334.12	377.94	437.97	380.08	376.69
373.35	443.44	375.67	450.33	377.95	360.36	380.14	362.21
373.36	339.29	375.68	357.27	377.96	373.20	380.15	402.01
373.42	445.16	375.70	411.15	378.01	383.98	380.19	410.92
373.43	412.70	375.75	436.27	378.03	365.32	380.26	279.76
373.47	364.91	375.78	380.89	378.05	370.71	380.34	331.48
373.55	401.14	375.82	407.37	378.25	320.01	380.36	468.38
373.57	328.51	375.87	430.26	378.29	391.19	380.37	410.16
373.59	399.77	375.88	387.57	378.31	396.32	380.43	379.29
373.61	321.95	375.89	375.75	378.33	415.34	380.44	363.68
373.64	476.34	375.90	376.09	378.36	373.62	380.47	351.08

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
380.57	362.32	382.90	433.64	385.12	381.08	386.90	403.59
380.66	349.42	382.96	342.24	385.18	433.85	386.91	372.95
380.73	410.13	382.99	396.06	385.20	298.62	386.93	431.71
380.74	388.91	383.01	348.21	385.21	372.78	386.96	313.86
380.76	410.00	383.07	353.38	385.24	408.58	386.97	341.43
380.77	427.70	383.08	331.77	385.25	464.08	387.08	381.75
380.81	325.12	383.09	410.98	385.28	475.39	387.09	414.22
380.82	403.00	383.14	393.94	385.35	358.87	387.11	317.05
380.86	399.12	383.15	380.38	385.36	375.26	387.14	433.77
380.90	416.03	383.17	374.28	385.41	364.80	387.15	420.51
380.92	354.42	383.26	477.68	385.42	339.68	387.19	383.14
380.95	369.11	383.27	370.71	385.44	406.76	387.28	452.50
380.96	316.49	383.34	300.24	385.45	376.45	387.29	387.73
381.05	338.56	383.37	384.04	385.47	376.90	387.31	373.27
381.06	398.87	383.38	397.43	385.51	373.87	387.36	392.18
381.07	342.63	383.46	399.97	385.52	339.51	387.39	342.20
381.08	320.71	383.47	387.48	385.54	376.52	387.41	368.76
381.09	406.96	383.52	362.22	385.57	423.45	387.42	449.68
381.18	513.11	383.55	353.12	385.58	430.85	387.54	310.31
381.19	284.44	383.65	449.12	385.61	357.01	387.55	381.51
381.22	345.56	383.69	379.09	385.62	389.53	387.56	327.61
381.24	407.80	383.70	384.15	385.66	443.40	387.63	368.17
381.35	374.58	383.73	380.34	385.67	390.67	387.69	398.67
381.42	405.21	383.74	331.30	385.70	426.83	387.71	366.58
381.46	373.29	383.77	487.74	385.73	360.66	387.72	380.65
381.47	390.76	383.88	342.18	385.75	384.64	387.74	450.57
381.48	399.51	383.90	415.83	385.76	415.85	387.79	378.00
381.51	418.15	383.91	366.57	385.82	288.63	387.82	343.83
381.65	346.41	384.00	421.14	385.84	426.12	387.84	337.03
381.68	392.03	384.05	391.14	385.92	463.70	387.85	376.71
381.69	352.78	384.08	427.53	385.94	379.87	387.87	287.72
381.75	406.54	384.11	562.30	385.96	465.24	387.89	330.73
381.79	367.95	384.13	328.75	386.01	330.44	387.92	329.01
381.81	387.36	384.19	299.23	386.09	343.29	387.95	434.40
381.83	343.82	384.20	432.18	386.12	376.61	387.99	384.04
381.86	456.15	384.31	386.96	386.15	339.91	388.04	362.06
381.89	439.15	384.32	343.24	386.16	399.22	388.05	391.16
381.96	380.68	384.34	410.72	386.17	330.38	388.06	359.12
382.03	437.04	384.38	345.85	386.19	353.98	388.08	360.02
382.14	404.23	384.42	405.78	386.24	462.60	388.09	355.71
382.24	380.97	384.45	427.41	386.27	340.38	388.11	366.51
382.26	373.38	384.49	406.29	386.30	371.60	388.12	323.58
382.27	444.08	384.53	400.82	386.33	432.05	388.18	360.00
382.28	375.40	384.54	354.55	386.34	334.41	388.19	371.95
382.29	294.88	384.57	330.46	386.35	414.97	388.21	339.66
382.32	414.03	384.60	451.20	386.38	404.35	388.25	359.95
382.34	379.87	384.63	457.91	386.40	328.68	388.27	379.59
382.39	334.18	384.75	341.63	386.41	469.19	388.34	387.96
382.41	368.70	384.79	395.62	386.45	370.68	388.35	398.04
382.45	408.92	384.81	418.63	386.49	416.86	388.40	390.38
382.57	415.91	384.82	440.95	386.55	407.76	388.41	327.14
382.58	391.37	384.93	385.83	386.60	295.98	388.43	392.13
382.60	418.57	384.96	423.85	386.64	415.85	388.47	375.63
382.64	362.38	385.01	376.79	386.74	390.83	388.50	415.52
382.69	449.35	385.03	402.24	386.76	325.78	388.59	382.91
382.71	390.99	385.05	292.60	386.78	396.38	388.60	346.87
382.74	360.59	385.06	414.24	386.79	382.32	388.62	366.98
382.77	464.24	385.07	420.38	386.86	329.45	388.77	387.41
382.82	362.21	385.08	399.44	386.87	379.15	388.78	352.42
382.83	374.13	385.11	409.04	386.89	387.26	388.79	448.85

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
388.85	405.48	390.71	385.85	392.66	366.90	394.45	492.72
388.86	422.09	390.73	411.81	392.68	460.61	394.46	334.97
388.92	379.10	390.76	367.45	392.77	431.36	394.51	375.00
388.93	427.46	390.79	362.93	392.78	423.99	394.55	391.94
388.99	368.90	390.80	359.50	392.79	382.17	394.58	385.59
389.01	383.62	390.83	349.75	392.80	417.48	394.63	468.61
389.02	359.02	390.84	358.10	392.81	359.36	394.74	378.96
389.04	363.72	390.86	393.91	392.82	379.19	394.80	376.54
389.05	385.01	390.89	382.34	392.86	423.45	394.83	389.11
389.09	317.96	390.91	409.40	392.93	382.20	394.91	332.65
389.11	365.86	390.98	428.13	392.96	387.75	394.92	398.97
389.14	344.99	390.99	-100.00	392.98	427.16	394.93	374.28
389.17	375.52	391.00	200.73	393.00	337.57	394.95	373.88
389.26	400.21	391.01	384.84	393.01	413.89	394.98	384.55
389.31	427.05	391.09	314.26	393.06	390.13	395.00	370.12
389.35	383.41	391.12	425.53	393.14	384.48	395.08	381.98
389.36	415.28	391.19	460.23	393.15	354.75	395.11	414.22
389.37	360.50	391.20	452.32	393.16	404.40	395.12	397.13
389.43	395.21	391.23	411.25	393.18	360.86	395.14	328.30
389.45	309.26	391.25	411.31	393.20	400.31	395.20	362.07
389.46	373.93	391.27	368.72	393.26	346.09	395.26	382.94
389.48	445.66	391.28	421.64	393.32	336.65	395.39	376.67
389.49	367.97	391.34	400.30	393.33	349.93	395.43	308.33
389.51	439.60	391.36	417.96	393.37	366.25	395.48	410.48
389.53	398.83	391.37	398.57	393.44	449.20	395.49	326.13
389.67	341.33	391.39	421.50	393.52	408.62	395.51	402.31
389.69	456.35	391.43	392.86	393.54	433.57	395.54	389.04
389.77	336.24	391.46	405.63	393.60	493.61	395.60	325.63
389.83	359.01	391.48	340.97	393.61	391.63	395.62	364.28
389.84	362.26	391.52	397.78	393.64	393.03	395.66	464.51
389.85	429.46	391.54	421.54	393.65	405.13	395.70	361.17
389.91	383.91	391.64	406.11	393.70	400.82	395.73	370.91
389.93	385.87	391.65	423.50	393.74	399.79	395.74	427.48
389.94	339.49	391.72	389.51	393.79	399.97	395.76	420.19
389.96	425.89	391.73	329.47	393.84	367.42	395.78	388.37
389.97	441.38	391.78	371.55	393.85	386.59	395.87	389.82
390.01	357.16	391.79	349.07	393.89	408.96	395.92	363.65
390.02	420.62	391.81	433.49	393.91	291.81	395.93	478.05
390.03	364.11	391.82	405.27	393.93	347.44	395.95	367.11
390.09	335.43	391.85	411.07	393.95	458.08	395.96	408.58
390.10	377.80	391.88	370.53	394.00	359.01	396.00	379.66
390.12	374.49	391.96	397.20	394.03	355.98	396.01	427.37
390.14	377.76	391.99	389.49	394.07	333.71	396.04	452.86
390.15	346.59	392.00	398.60	394.09	449.52	396.07	470.72
390.18	326.17	392.01	339.11	394.13	304.39	396.08	432.04
390.19	344.41	392.02	348.38	394.16	343.09	396.09	414.81
390.21	414.84	392.16	345.73	394.18	214.39	396.11	387.31
390.23	370.75	392.24	386.41	394.19	386.66	396.15	348.63
390.31	311.76	392.28	387.25	394.20	347.55	396.17	413.97
390.36	409.83	392.29	392.58	394.23	309.99	396.19	368.35
390.40	370.57	392.36	391.78	394.25	369.39	396.24	379.92
390.46	254.67	392.44	359.17	394.26	417.39	396.27	453.90
390.48	405.77	392.45	435.43	394.27	362.19	396.33	424.30
390.51	396.78	392.48	226.28	394.28	360.73	396.38	491.12
390.52	387.05	392.49	397.89	394.33	349.18	396.42	368.89
390.56	367.98	392.51	362.81	394.34	353.27	396.44	361.95
390.62	374.21	392.59	451.70	394.38	421.73	396.46	314.48
390.64	394.10	392.60	359.18	394.39	421.87	396.49	478.94
390.66	354.69	392.62	408.78	394.40	376.10	396.52	411.82
390.68	384.69	392.65	400.53	394.44	408.97	396.57	380.30

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
396.58	431.77	398.33	394.14	400.28	357.15	402.20	456.37
396.67	444.29	398.35	398.90	400.31	331.95	402.25	371.28
396.69	408.86	398.39	425.29	400.32	342.74	402.26	436.27
396.70	459.34	398.41	421.93	400.33	369.95	402.30	367.41
396.74	469.29	398.45	399.50	400.37	496.68	402.31	362.53
396.75	358.64	398.47	398.32	400.38	428.10	402.35	387.53
396.76	410.14	398.50	365.09	400.39	335.45	402.38	406.42
396.77	319.12	398.52	364.36	400.42	422.87	402.40	424.02
396.81	408.96	398.54	365.40	400.46	399.17	402.43	394.70
396.93	432.41	398.60	419.18	400.53	380.90	402.47	370.88
396.94	373.63	398.61	421.43	400.54	330.28	402.50	419.55
396.95	338.86	398.62	347.80	400.62	375.25	402.52	439.06
396.96	336.25	398.63	301.36	400.66	344.01	402.56	351.62
396.99	366.58	398.65	411.68	400.69	419.90	402.57	419.64
397.02	418.48	398.74	382.31	400.70	458.77	402.59	445.48
397.04	429.24	398.76	429.19	400.71	284.72	402.60	441.17
397.06	344.60	398.83	358.51	400.73	402.75	402.61	460.18
397.08	328.12	398.91	381.48	400.75	327.38	402.64	359.35
397.09	390.95	398.92	354.44	400.81	429.61	402.72	363.17
397.11	381.73	398.93	397.03	400.83	461.41	402.73	372.31
397.16	404.10	398.94	341.90	400.84	445.37	402.76	365.06
397.17	333.75	399.01	430.21	400.85	368.68	402.78	355.11
397.18	392.57	399.05	395.63	400.94	375.23	402.80	432.97
397.24	379.55	399.09	358.31	400.95	456.98	402.81	386.33
397.29	347.92	399.10	414.70	400.98	364.55	402.87	405.20
397.31	338.73	399.11	445.42	401.03	390.50	402.88	395.05
397.34	471.61	399.15	436.29	401.04	365.86	403.00	353.91
397.39	370.04	399.19	401.51	401.07	413.01	403.03	381.80
397.42	453.70	399.20	482.61	401.14	373.28	403.09	440.05
397.44	364.82	399.22	459.94	401.19	400.76	403.11	450.80
397.55	367.51	399.26	449.09	401.27	433.46	403.14	455.43
397.60	351.23	399.27	282.24	401.29	422.77	403.17	425.64
397.63	336.42	399.30	399.46	401.30	429.15	403.21	380.52
397.64	356.68	399.32	333.87	401.31	344.63	403.24	263.86
397.65	394.85	399.34	403.66	401.32	422.30	403.26	373.26
397.67	437.25	399.36	347.31	401.39	396.67	403.27	467.19
397.68	384.95	399.43	440.49	401.40	420.42	403.28	390.26
397.71	415.05	399.49	433.37	401.41	385.78	403.32	346.72
397.74	366.39	399.50	440.42	401.43	470.21	403.33	416.10
397.75	354.32	399.51	436.70	401.44	379.40	403.34	435.83
397.76	402.53	399.54	438.83	401.46	474.04	403.35	406.75
397.78	279.64	399.58	389.03	401.48	386.47	403.36	415.23
397.79	336.98	399.59	372.22	401.50	402.26	403.37	359.10
397.81	372.99	399.69	355.10	401.59	378.97	403.38	385.32
397.83	310.31	399.70	399.28	401.61	418.25	403.42	417.80
397.84	418.47	399.72	470.70	401.63	421.74	403.47	393.25
397.91	461.13	399.78	380.06	401.65	352.49	403.60	405.06
397.93	432.37	399.82	479.75	401.74	393.07	403.61	373.61
398.01	359.51	399.84	449.56	401.78	377.60	403.63	378.63
398.03	395.60	399.85	492.40	401.87	347.13	403.66	369.97
398.06	407.07	399.90	461.13	401.90	390.12	403.68	354.47
398.07	359.38	399.98	422.39	401.94	423.81	403.72	432.92
398.13	382.46	399.99	336.10	402.00	436.66	403.76	420.76
398.16	430.62	400.05	384.20	402.01	484.40	403.79	355.92
398.19	412.93	400.13	391.66	402.03	438.85	403.80	445.33
398.21	433.74	400.14	426.59	402.05	326.26	403.81	437.14
398.22	402.51	400.17	388.33	402.06	403.63	403.84	391.96
398.27	401.93	400.18	422.41	402.11	427.10	403.85	368.67
398.29	312.17	400.21	363.41	402.14	417.38	403.87	434.70
398.31	411.21	400.22	422.84	402.19	442.85	403.88	399.21

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
403.89	352.31	405.43	421.43	407.21	420.36	409.05	402.35
403.90	385.26	405.44	378.89	407.24	443.69	409.08	445.63
403.92	438.68	405.46	390.49	407.26	468.71	409.09	424.56
403.96	409.62	405.50	340.71	407.28	391.83	409.19	411.83
404.00	375.09	405.51	364.78	407.30	-100.00	409.20	357.03
404.04	352.68	405.55	467.05	407.31	408.24	409.21	400.33
404.06	418.15	405.58	404.88	407.34	431.30	409.28	422.39
404.12	429.15	405.59	436.73	407.38	397.79	409.29	467.04
404.13	345.69	405.61	414.41	407.40	334.36	409.35	355.74
404.14	421.95	405.65	407.05	407.41	474.93	409.37	348.25
404.15	386.42	405.66	368.95	407.47	453.69	409.38	351.67
404.16	365.46	405.67	432.96	407.48	343.54	409.39	369.74
404.17	402.37	405.69	361.75	407.49	441.08	409.44	487.88
404.20	357.87	405.73	482.30	407.50	384.95	409.46	432.27
404.21	334.56	405.75	357.78	407.52	367.83	409.47	392.16
404.26	389.44	405.76	398.87	407.69	411.21	409.55	381.61
404.32	397.93	405.77	400.84	407.74	399.89	409.59	474.71
404.34	349.79	405.80	398.68	407.75	459.46	409.60	364.19
404.36	363.76	405.84	427.47	407.77	363.48	409.62	348.76
404.49	423.45	405.87	455.85	407.81	392.97	409.63	366.43
404.53	361.33	405.88	399.54	407.82	423.00	409.65	488.69
404.56	389.51	405.93	409.03	407.83	423.47	409.67	405.50
404.62	382.48	406.01	389.36	407.86	445.66	409.69	450.65
404.63	414.51	406.03	383.45	407.87	377.44	409.77	404.35
404.66	377.65	406.04	366.63	407.88	393.70	409.78	335.61
404.71	367.09	406.05	359.43	407.91	357.35	409.79	406.35
404.74	370.10	406.23	471.73	408.00	442.86	409.81	344.38
404.75	445.83	406.26	418.92	408.04	410.23	409.83	419.00
404.77	406.55	406.28	407.95	408.07	389.48	409.84	382.90
404.80	415.80	406.29	437.39	408.10	358.52	409.93	485.38
404.81	382.10	406.35	357.55	408.12	428.23	410.00	415.87
404.82	392.60	406.36	328.12	408.14	448.44	410.01	367.70
404.85	352.91	406.37	372.52	408.16	397.73	410.05	441.67
404.86	381.11	406.38	452.77	408.18	490.13	410.07	412.57
404.87	410.94	406.44	399.39	408.19	482.44	410.09	355.08
404.90	341.69	406.46	394.48	408.23	361.78	410.11	400.03
404.92	397.93	406.48	460.79	408.25	440.02	410.13	398.84
404.93	458.16	406.59	461.57	408.26	412.17	410.22	429.40
404.94	422.88	406.60	425.50	408.28	387.11	410.23	422.02
404.96	376.56	406.63	397.18	408.34	377.35	410.26	478.70
404.97	462.68	406.72	456.33	408.36	386.95	410.29	399.03
404.98	386.80	406.76	432.85	408.43	376.03	410.30	424.52
405.00	373.28	406.77	396.24	408.51	426.64	410.33	448.45
405.05	368.91	406.81	401.52	408.53	450.07	410.39	373.70
405.08	398.92	406.83	377.60	408.59	419.23	410.41	456.08
405.09	436.99	406.85	400.36	408.61	391.98	410.43	376.17
405.12	366.57	406.86	429.24	408.62	393.43	410.45	394.18
405.18	430.69	406.87	409.48	408.65	429.05	410.47	461.05
405.19	420.47	406.88	385.41	408.69	412.10	410.50	410.36
405.22	386.77	406.96	442.43	408.73	382.81	410.51	408.44
405.25	406.83	406.99	409.54	408.75	365.20	410.53	474.85
405.28	402.36	407.00	443.57	408.77	351.83	410.54	334.20
405.29	404.92	407.03	418.13	408.79	416.57	410.56	381.67
405.30	435.23	407.05	456.06	408.80	408.14	410.57	409.92
405.31	459.99	407.06	425.43	408.81	437.42	410.60	377.97
405.32	438.01	407.08	388.47	408.90	453.65	410.61	377.40
405.34	455.95	407.10	385.31	408.93	340.97	410.64	490.51
405.37	447.90	407.16	399.87	408.94	431.69	410.69	348.72
405.39	397.67	407.18	365.46	408.97	375.06	410.71	448.56
405.40	347.49	407.20	414.32	409.01	344.93	410.74	372.94

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
410.84	333.25	412.88	394.80	414.37	418.24	416.02	447.65
410.88	455.89	412.89	423.66	414.38	414.24	416.15	432.85
410.91	378.81	412.91	367.69	414.43	409.31	416.17	355.38
410.92	364.54	412.92	401.43	414.44	411.18	416.23	399.76
410.94	393.21	413.01	376.33	414.46	387.62	416.24	394.87
410.98	459.45	413.02	462.15	414.47	468.37	416.25	263.84
411.00	422.86	413.05	407.38	414.49	447.76	416.26	426.70
411.03	452.18	413.10	435.72	414.51	416.26	416.29	412.43
411.04	450.99	413.11	391.73	414.52	449.50	416.31	375.23
411.09	473.54	413.12	377.98	414.53	411.32	416.33	402.56
411.17	472.78	413.13	408.40	414.54	381.67	416.34	466.51
411.24	347.45	413.14	465.90	414.55	433.88	416.37	385.75
411.32	324.74	413.15	383.64	414.56	367.87	416.38	432.89
411.33	418.09	413.30	351.21	414.57	441.61	416.39	410.55
411.34	464.59	413.31	395.38	414.59	368.71	416.41	408.98
411.39	-100.00	413.32	372.88	414.65	383.37	416.44	419.64
411.40	407.99	413.33	436.59	414.67	443.06	416.47	416.45
411.42	425.09	413.34	437.32	414.68	421.72	416.48	467.02
411.43	359.53	413.37	405.57	414.70	357.61	416.49	437.37
411.46	348.25	413.38	423.40	414.78	389.89	416.52	372.09
411.51	432.17	413.46	354.97	414.79	316.14	416.53	439.87
411.52	417.88	413.51	410.79	414.87	387.14	416.59	427.37
411.56	423.28	413.53	413.44	414.90	472.95	416.61	397.04
411.60	497.42	413.55	370.23	414.91	391.90	416.62	412.42
411.62	465.30	413.57	428.57	414.95	469.84	416.63	426.22
411.63	426.39	413.59	468.02	415.00	429.05	416.65	483.52
411.66	411.16	413.60	412.46	415.12	449.63	416.68	413.17
411.70	485.06	413.62	435.38	415.17	400.07	416.70	444.29
411.71	375.66	413.66	378.76	415.19	414.00	416.75	423.00
411.73	354.36	413.69	439.91	415.20	474.94	416.81	348.11
411.84	437.03	413.72	397.37	415.22	443.26	416.93	421.32
411.87	391.27	413.73	462.18	415.24	431.46	416.94	371.52
411.88	371.56	413.74	368.01	415.25	358.09	417.01	398.62
411.92	353.92	413.75	357.47	415.28	343.81	417.02	350.70
411.93	421.26	413.77	438.93	415.30	427.99	417.04	392.71
411.95	434.69	413.78	430.69	415.32	454.01	417.05	385.79
412.05	496.98	413.79	486.72	415.37	404.41	417.07	437.34
412.06	415.37	413.81	376.30	415.42	447.74	417.13	347.17
412.07	348.72	413.84	397.19	415.45	246.48	417.15	426.64
412.08	449.02	413.85	338.07	415.46	350.69	417.17	430.00
412.11	375.59	413.89	417.29	415.49	388.56	417.23	359.32
412.19	447.32	413.90	418.98	415.52	325.60	417.24	428.64
412.21	418.89	413.91	423.33	415.54	417.73	417.27	401.51
412.28	309.56	413.93	403.61	415.55	389.89	417.30	426.03
412.34	398.68	413.95	375.15	415.56	413.22	417.31	400.85
412.37	403.10	413.97	359.90	415.64	449.44	417.32	447.07
412.43	381.76	413.99	419.25	415.65	403.88	417.36	419.51
412.49	407.62	414.03	368.71	415.68	389.29	417.39	454.27
412.52	358.34	414.04	365.90	415.70	478.53	417.42	385.87
412.61	227.26	414.05	396.26	415.72	411.63	417.44	437.42
412.62	455.35	414.10	362.35	415.73	431.10	417.45	494.60
412.65	384.03	414.14	382.86	415.74	329.15	417.46	455.37
412.70	465.15	414.15	481.65	415.76	399.02	417.47	381.59
412.72	440.52	414.16	460.75	415.83	405.65	417.49	430.05
412.73	437.70	414.19	393.09	415.84	387.43	417.51	418.97
412.74	421.67	414.20	513.02	415.86	441.23	417.60	317.74
412.75	463.90	414.21	339.85	415.88	369.78	417.65	372.67
412.76	417.60	414.23	337.15	415.90	340.60	417.67	392.79
412.84	372.84	414.25	454.39	415.94	414.85	417.72	445.26
412.85	301.67	414.27	410.34	416.01	408.87	417.73	428.18

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
417.74	419.53	419.19	473.15	420.92	361.38	422.30	383.94
417.76	330.34	419.22	415.67	420.93	385.00	422.31	420.44
417.79	405.02	419.26	391.20	421.00	446.99	422.35	448.30
417.80	356.38	419.27	479.42	421.02	342.66	422.40	447.80
417.87	296.91	419.28	413.24	421.03	324.37	422.45	390.76
417.88	421.80	419.29	437.73	421.04	453.68	422.48	365.45
417.90	434.29	419.30	322.88	421.08	397.82	422.52	377.51
417.92	350.34	419.31	375.33	421.11	355.90	422.53	403.50
417.94	394.25	419.37	430.68	421.12	303.59	422.54	470.22
417.96	418.64	419.43	447.09	421.13	422.06	422.59	431.61
417.99	380.45	419.55	482.37	421.17	386.56	422.60	436.08
418.01	402.00	419.59	375.16	421.19	444.27	422.61	443.96
418.02	439.20	419.62	380.12	421.20	450.52	422.65	437.17
418.05	411.35	419.63	433.64	421.21	413.01	422.68	413.57
418.06	413.10	419.64	454.46	421.22	382.03	422.80	339.71
418.09	421.84	419.66	428.63	421.26	454.81	422.84	427.44
418.12	465.01	419.68	422.43	421.27	465.64	422.88	425.34
418.14	388.63	419.69	400.29	421.28	304.38	422.93	356.34
418.15	401.70	419.70	448.98	421.32	423.26	422.95	396.21
418.16	436.14	419.72	408.71	421.36	392.32	423.00	445.47
418.24	434.16	419.77	454.55	421.37	453.20	423.01	396.52
418.28	409.18	419.78	410.64	421.38	376.66	423.02	473.10
418.29	456.29	419.85	398.35	421.44	380.62	423.07	403.84
418.31	405.56	419.87	432.31	421.46	361.92	423.09	366.01
418.32	370.18	419.88	440.03	421.47	460.07	423.13	398.42
418.33	401.76	419.92	398.63	421.49	394.64	423.15	458.31
418.36	399.75	419.95	444.01	421.50	430.16	423.18	467.07
418.38	420.85	419.97	472.91	421.53	412.60	423.23	354.81
418.41	450.89	419.98	398.37	421.56	389.44	423.24	380.14
418.45	443.51	420.00	405.82	421.57	343.40	423.27	343.19
418.46	432.62	420.04	405.77	421.58	417.64	423.30	374.02
418.48	437.45	420.07	451.55	421.59	343.43	423.32	454.52
418.51	394.84	420.08	331.00	421.67	468.46	423.33	394.89
418.53	400.41	420.10	446.31	421.68	386.03	423.34	439.34
418.55	477.34	420.17	434.83	421.69	460.21	423.38	453.76
418.59	349.55	420.18	528.15	421.70	367.76	423.45	431.82
418.63	420.92	420.22	384.89	421.73	410.68	423.46	499.93
418.65	407.25	420.28	491.13	421.74	410.78	423.48	444.06
418.68	438.18	420.36	393.00	421.79	369.05	423.51	403.22
418.72	392.56	420.39	482.83	421.81	407.72	423.53	462.92
418.74	373.80	420.40	-100.00	421.82	376.02	423.56	384.52
418.75	394.00	420.43	367.68	421.84	433.02	423.62	406.05
418.77	480.84	420.44	466.02	421.86	415.21	423.63	394.26
418.78	415.27	420.45	539.03	421.87	434.25	423.64	423.65
418.80	369.36	420.47	389.99	421.89	365.81	423.66	434.18
418.91	393.81	420.48	450.68	421.93	432.67	423.67	415.54
418.96	453.13	420.50	430.20	421.95	510.40	423.68	475.83
418.98	463.48	420.51	501.00	421.96	392.72	423.71	381.86
418.99	422.99	420.53	386.13	422.02	428.02	423.76	443.82
419.04	465.66	420.54	394.33	422.03	455.06	423.77	418.59
419.06	425.11	420.61	387.59	422.09	411.05	423.78	398.49
419.07	421.57	420.62	392.00	422.11	378.64	423.79	382.02
419.08	470.85	420.63	365.61	422.12	402.44	423.81	451.61
419.09	407.55	420.69	457.37	422.13	401.76	423.82	420.42
419.10	347.44	420.70	374.33	422.15	429.99	423.84	455.40
419.11	401.71	420.79	342.75	422.17	412.48	423.86	476.26
419.13	441.45	420.80	497.05	422.21	433.17	423.88	451.01
419.15	308.80	420.82	437.88	422.22	416.67	423.89	381.76
419.17	394.36	420.84	446.16	422.25	392.52	423.94	444.58
419.18	445.61	420.88	444.12	422.28	382.65	423.97	409.15

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
423.98	431.61	425.59	458.52	426.93	436.14	428.38	463.58
424.00	387.28	425.60	366.19	426.94	402.87	428.39	414.51
424.01	434.14	425.62	436.15	426.96	390.17	428.41	360.34
424.05	445.53	425.63	419.91	426.97	405.79	428.42	429.74
424.07	412.82	425.68	372.04	426.98	450.48	428.43	394.53
424.08	503.38	425.71	381.68	426.99	397.42	428.47	432.56
424.09	387.48	425.72	435.69	427.01	450.26	428.49	457.65
424.10	431.32	425.73	411.54	427.07	466.18	428.51	437.75
424.13	473.07	425.76	426.81	427.15	363.66	428.68	419.77
424.15	397.55	425.77	465.56	427.17	427.57	428.70	365.57
424.16	359.88	425.78	479.54	427.18	438.55	428.71	400.58
424.17	429.86	425.79	389.45	427.19	394.85	428.72	455.65
424.19	478.05	425.81	356.00	427.22	395.94	428.73	414.58
424.21	493.11	425.82	456.75	427.24	340.49	428.80	389.77
424.23	390.90	425.85	470.66	427.25	449.87	428.81	353.70
424.25	465.90	425.86	378.33	427.26	372.66	428.82	432.67
424.28	453.16	425.89	427.32	427.27	447.02	428.83	446.22
424.29	312.16	425.93	429.89	427.28	392.46	428.85	380.54
424.31	306.69	425.96	321.95	427.33	415.26	428.89	425.65
424.35	373.00	425.99	427.33	427.34	431.30	428.90	360.60
424.36	421.32	426.01	381.91	427.36	450.23	428.92	467.44
424.40	390.10	426.03	439.20	427.40	376.49	428.93	430.21
424.46	419.65	426.05	438.76	427.46	373.68	428.95	359.74
424.53	415.58	426.07	432.32	427.47	370.44	429.03	418.70
424.57	448.01	426.09	382.43	427.49	416.17	429.04	369.49
424.69	448.10	426.15	454.08	427.51	395.56	429.05	444.27
424.70	376.40	426.16	421.38	427.52	483.95	429.06	461.61
424.72	456.92	426.18	461.07	427.55	443.57	429.07	401.33
424.73	401.43	426.20	434.62	427.56	505.59	429.09	444.68
424.74	367.74	426.21	381.86	427.57	414.37	429.11	416.86
424.75	463.07	426.22	447.61	427.58	433.08	429.15	423.69
424.78	424.49	426.24	398.69	427.66	369.55	429.19	382.87
424.81	470.60	426.27	413.80	427.76	452.28	429.23	441.91
424.82	468.92	426.29	430.31	427.79	460.20	429.26	450.78
424.86	444.25	426.31	370.77	427.80	418.28	429.35	458.83
424.87	439.13	426.33	435.01	427.84	389.17	429.37	465.89
424.88	426.26	426.34	404.36	427.85	418.42	429.38	324.44
424.89	457.33	426.36	350.50	427.86	458.10	429.40	454.75
424.90	445.35	426.40	395.26	427.87	428.00	429.42	415.12
424.94	404.70	426.43	397.59	427.90	409.86	429.44	406.71
425.00	501.38	426.45	382.10	427.92	469.90	429.46	428.09
425.01	359.91	426.49	490.07	427.93	435.66	429.56	416.80
425.03	455.32	426.52	419.12	427.97	397.15	429.57	383.46
425.05	374.67	426.53	342.80	427.99	354.52	429.72	401.36
425.06	385.47	426.54	430.09	428.02	428.00	429.76	364.96
425.07	488.22	426.55	399.00	428.07	476.89	429.77	447.49
425.10	443.80	426.57	427.68	428.09	434.78	429.79	418.17
425.12	378.17	426.64	453.15	428.10	376.82	429.81	453.78
425.17	372.95	426.68	506.08	428.13	333.87	429.82	400.63
425.26	391.77	426.69	412.90	428.14	462.49	429.83	394.64
425.27	346.81	426.72	440.51	428.15	353.15	429.87	447.17
425.30	371.79	426.73	448.39	428.17	440.72	429.92	404.50
425.33	396.96	426.77	401.85	428.19	433.96	429.93	398.90
425.44	396.85	426.80	340.17	428.20	368.22	429.99	421.89
425.46	462.18	426.81	358.09	428.22	408.77	430.00	469.80
425.47	447.07	426.82	406.50	428.26	432.87	430.03	404.33
425.48	436.46	426.83	375.56	428.29	381.92	430.06	374.60
425.50	421.86	426.85	423.21	428.30	360.36	430.08	361.70
425.51	451.99	426.87	442.72	428.35	395.96	430.09	426.08
425.55	393.99	426.90	338.64	428.37	422.13	430.11	443.44



PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
430.13	406.62	431.70	404.62	433.36	433.18	434.55	451.97
430.15	360.58	431.72	436.87	433.37	278.12	434.56	396.45
430.18	383.20	431.79	399.11	433.39	442.41	434.58	449.80
430.20	429.91	431.80	445.67	433.42	448.99	434.60	351.13
430.24	443.26	431.96	407.14	433.45	358.07	434.61	426.46
430.25	398.63	431.99	422.67	433.50	472.93	434.62	462.79
430.26	408.77	432.02	350.97	433.51	460.76	434.63	436.25
430.27	423.95	432.06	474.44	433.54	409.49	434.65	433.18
430.28	406.01	432.09	498.46	433.55	439.15	434.68	368.94
430.30	453.58	432.12	433.68	433.56	426.73	434.69	387.99
430.33	399.93	432.15	413.53	433.57	446.88	434.73	413.91
430.35	422.24	432.19	510.71	433.58	433.51	434.78	416.36
430.37	464.78	432.26	472.29	433.59	417.08	434.79	463.58
430.42	378.48	432.28	376.35	433.60	404.78	434.82	459.49
430.47	395.45	432.29	439.57	433.66	452.65	434.83	389.73
430.48	452.17	432.32	457.25	433.69	479.39	434.84	451.09
430.53	437.55	432.34	418.69	433.70	496.62	434.86	375.71
430.58	384.77	432.37	440.62	433.71	428.24	434.89	449.60
430.62	447.08	432.41	464.41	433.73	448.41	434.90	409.81
430.63	416.76	432.44	425.94	433.75	365.52	434.91	418.52
430.67	409.70	432.45	409.75	433.76	463.48	434.96	441.44
430.68	398.99	432.48	452.06	433.77	438.02	434.97	442.78
430.69	457.25	432.50	430.02	433.78	421.41	435.01	470.15
430.73	466.91	432.51	379.47	433.79	366.65	435.02	370.85
430.74	440.76	432.52	359.50	433.80	444.36	435.06	419.31
430.76	443.81	432.54	373.25	433.81	371.79	435.07	396.11
430.79	404.02	432.55	408.35	433.84	443.22	435.08	404.91
430.82	436.86	432.56	431.02	433.85	417.04	435.10	403.12
430.83	488.68	432.59	381.27	433.87	462.17	435.13	436.44
430.84	401.97	432.60	426.10	433.90	376.81	435.16	406.89
430.88	395.54	432.66	453.36	433.92	456.81	435.18	450.98
430.93	434.17	432.68	450.28	433.99	-100.00	435.20	475.84
430.94	419.44	432.71	377.04	434.01	375.69	435.22	420.13
430.96	438.60	432.72	488.54	434.02	473.71	435.25	387.22
430.97	408.55	432.73	419.11	434.03	395.75	435.30	436.93
430.98	447.21	432.74	472.66	434.04	398.00	435.33	456.26
431.00	324.87	432.77	451.10	434.05	466.33	435.41	418.28
431.03	476.41	432.82	495.60	434.07	476.05	435.42	410.17
431.04	415.20	432.86	361.99	434.12	383.94	435.44	413.88
431.09	371.36	432.89	389.17	434.13	434.42	435.49	469.15
431.10	391.35	432.90	406.75	434.14	414.18	435.53	432.84
431.13	476.65	432.91	371.92	434.16	444.75	435.54	492.80
431.17	480.02	432.92	430.06	434.18	465.96	435.55	419.59
431.18	473.74	432.93	456.78	434.19	446.33	435.56	439.61
431.23	445.26	432.95	454.10	434.20	412.59	435.57	347.46
431.25	446.16	432.96	485.21	434.21	328.31	435.59	428.88
431.26	440.03	432.98	395.29	434.24	375.02	435.61	420.67
431.27	501.64	432.99	400.02	434.25	419.50	435.64	429.29
431.33	374.30	433.01	458.77	434.29	446.90	435.66	426.28
431.34	460.78	433.03	390.01	434.30	399.69	435.69	410.35
431.36	478.55	433.04	356.21	434.31	357.07	435.70	386.86
431.43	440.77	433.07	393.04	434.33	486.82	435.73	459.76
431.45	424.20	433.09	410.77	434.36	384.62	435.78	462.79
431.56	396.65	433.17	430.77	434.37	438.22	435.83	446.00
431.58	388.11	433.18	350.61	434.40	440.46	435.85	398.28
431.60	323.98	433.21	428.93	434.41	394.22	435.87	415.39
431.61	387.85	433.27	456.86	434.42	434.09	435.88	435.83
431.63	389.50	433.28	446.50	434.46	430.34	435.89	437.85
431.66	486.57	433.29	397.83	434.47	409.64	435.91	400.52
431.67	427.67	433.33	441.99	434.51	405.74	435.93	442.51

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
435.95	425.30	437.42	448.27	438.71	404.67	440.12	434.46
436.01	427.45	437.50	420.08	438.73	371.26	440.15	444.23
436.04	460.36	437.52	460.08	438.74	591.17	440.16	326.10
436.05	356.61	437.53	420.25	438.79	496.40	440.18	460.66
436.09	419.55	437.54	467.65	438.81	431.74	440.19	463.52
436.13	385.06	437.55	412.94	438.83	368.90	440.25	454.71
436.20	433.64	437.59	426.18	438.87	394.87	440.27	394.66
436.24	415.36	437.61	376.73	438.89	406.06	440.28	438.35
436.25	461.53	437.63	428.88	438.91	446.34	440.32	418.90
436.28	349.20	437.66	443.66	438.93	418.25	440.36	452.75
436.31	417.06	437.72	481.13	438.94	508.14	440.38	465.02
436.33	409.64	437.80	531.54	438.98	371.86	440.39	352.57
436.37	422.80	437.81	462.74	439.01	475.71	440.40	474.79
436.38	448.87	437.83	499.83	439.03	472.30	440.41	413.05
436.42	459.55	437.86	454.12	439.05	442.64	440.42	417.57
436.43	466.16	437.90	428.34	439.06	397.81	440.43	454.91
436.47	405.44	437.92	400.28	439.09	450.97	440.45	378.92
436.48	383.76	437.95	434.66	439.16	456.31	440.47	468.18
436.49	396.19	437.96	413.35	439.18	410.75	440.50	411.44
436.51	462.40	437.98	394.34	439.19	410.04	440.51	475.14
436.52	449.17	438.00	298.10	439.24	417.76	440.57	399.40
436.53	450.10	438.01	373.22	439.26	457.25	440.60	466.74
436.54	427.07	438.02	471.91	439.28	426.06	440.61	438.75
436.56	459.09	438.04	425.01	439.30	493.35	440.63	465.70
436.57	453.16	438.05	351.51	439.31	503.09	440.64	469.69
436.58	376.94	438.07	405.99	439.32	447.93	440.66	413.49
436.61	487.20	438.08	461.16	439.33	429.10	440.67	439.87
436.66	382.85	438.12	474.64	439.34	476.87	440.68	449.48
436.69	419.22	438.13	480.86	439.35	489.97	440.70	413.42
436.72	474.34	438.16	367.03	439.37	445.22	440.73	434.35
436.75	431.27	438.18	439.82	439.39	379.19	440.74	440.83
436.77	407.22	438.22	423.15	439.40	455.26	440.76	408.77
436.79	427.40	438.23	389.05	439.43	451.05	440.80	420.18
436.80	460.69	438.25	418.36	439.45	422.29	440.81	394.94
436.81	442.51	438.27	413.72	439.46	449.23	440.88	385.85
436.82	481.82	438.28	457.56	439.47	459.13	440.89	416.69
436.86	407.71	438.29	440.96	439.48	391.88	440.92	428.71
436.89	484.28	438.30	400.11	439.51	442.93	440.96	459.64
436.90	443.07	438.32	422.45	439.52	369.77	441.02	499.36
436.92	422.52	438.33	442.53	439.56	484.43	441.03	442.68
436.93	449.28	438.35	411.25	439.63	464.08	441.05	427.36
436.94	393.78	438.36	386.77	439.64	409.72	441.09	509.81
436.95	444.32	438.39	400.76	439.66	419.33	441.13	461.82
436.96	430.71	438.42	393.71	439.71	376.09	441.20	446.90
436.98	409.18	438.45	494.94	439.73	366.31	441.22	406.98
436.99	413.45	438.47	397.06	439.76	458.19	441.28	442.74
437.04	392.50	438.48	437.37	439.77	400.90	441.35	453.27
437.06	472.57	438.50	344.16	439.78	468.45	441.39	384.83
437.09	437.99	438.53	408.90	439.79	435.19	441.40	492.81
437.13	363.63	438.55	403.89	439.82	364.52	441.41	461.71
437.15	459.13	438.57	491.09	439.88	397.86	441.44	416.67
437.17	475.09	438.59	470.71	439.89	385.99	441.48	474.31
437.18	421.07	438.60	451.66	439.92	407.19	441.53	425.37
437.21	415.46	438.61	439.54	439.94	398.56	441.56	440.44
437.22	397.39	438.62	477.72	439.95	407.79	441.57	434.36
437.26	486.03	438.64	441.42	439.98	448.41	441.61	421.13
437.28	452.00	438.65	458.53	440.00	371.59	441.64	411.28
437.29	442.21	438.66	478.14	440.01	387.69	441.65	435.58
437.33	445.91	438.67	447.52	440.03	444.14	441.66	367.32
437.39	403.56	438.70	442.26	440.09	368.19	441.68	418.36

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
441.72	385.10	443.06	460.65	444.62	385.92	445.80	394.24
441.74	363.45	443.07	460.60	444.63	459.21	445.82	461.36
441.77	491.72	443.09	441.17	444.64	440.05	445.85	348.31
441.79	468.94	443.10	422.26	444.70	461.58	445.90	402.26
441.81	369.14	443.11	407.89	444.73	414.84	445.91	413.72
441.82	455.84	443.15	421.46	444.74	421.34	445.94	464.04
441.83	382.59	443.17	366.34	444.75	422.43	445.95	443.67
441.86	452.11	443.19	473.17	444.76	359.97	445.96	426.21
441.87	468.13	443.24	432.85	444.78	422.18	445.97	460.46
441.88	408.98	443.25	418.02	444.81	409.82	445.98	418.30
441.89	392.27	443.26	427.58	444.82	473.83	445.99	449.74
441.92	403.68	443.29	427.55	444.83	500.69	446.00	451.87
441.95	381.61	443.30	373.74	444.85	418.85	446.06	348.71
442.00	405.04	443.36	436.05	444.86	416.56	446.08	442.12
442.03	471.36	443.38	485.54	444.87	437.27	446.10	392.50
442.04	421.98	443.39	461.57	444.90	418.29	446.11	471.77
442.05	452.40	443.40	343.52	444.91	416.12	446.14	410.00
442.07	453.83	443.49	462.58	444.92	369.24	446.15	439.30
442.14	375.97	443.50	425.25	444.94	429.12	446.17	433.07
442.16	426.98	443.51	397.21	444.96	441.99	446.21	444.96
442.19	495.79	443.56	453.12	444.97	429.76	446.22	426.84
442.23	429.99	443.57	440.31	444.98	412.10	446.24	405.16
442.24	408.91	443.60	459.23	444.99	387.18	446.26	452.69
442.25	342.62	443.61	448.40	445.00	473.65	446.28	363.56
442.29	395.25	443.64	434.67	445.01	466.63	446.29	464.49
442.30	454.94	443.66	419.72	445.03	436.61	446.30	419.57
442.31	426.99	443.67	437.42	445.04	387.52	446.33	399.59
442.38	413.77	443.68	417.82	445.06	393.54	446.34	390.57
442.40	399.57	443.69	432.60	445.07	458.04	446.35	440.59
442.47	407.55	443.75	365.98	445.08	423.51	446.37	456.14
442.50	473.03	443.76	437.95	445.09	429.38	446.44	455.60
442.51	498.11	443.77	426.47	445.10	430.52	446.45	441.89
442.52	439.92	443.80	427.47	445.17	321.19	446.46	492.15
442.54	402.05	443.82	361.45	445.18	399.11	446.47	415.64
442.55	403.12	443.85	368.66	445.21	489.67	446.48	470.36
442.57	346.17	443.96	423.93	445.22	448.51	446.53	438.44
442.59	387.54	443.98	441.73	445.24	388.64	446.58	455.32
442.62	443.81	443.99	488.91	445.26	432.81	446.59	423.58
442.64	438.09	444.01	441.82	445.30	418.42	446.60	405.66
442.65	413.70	444.02	442.11	445.31	476.40	446.62	260.23
442.70	432.19	444.03	411.54	445.34	392.31	446.66	376.93
442.74	432.07	444.06	389.17	445.35	409.90	446.68	417.84
442.75	415.97	444.07	373.23	445.39	444.93	446.69	432.46
442.76	422.63	444.09	355.72	445.41	490.80	446.72	403.81
442.77	469.79	444.12	416.32	445.44	424.65	446.74	401.60
442.78	404.75	444.13	432.46	445.45	402.38	446.75	416.19
442.84	440.49	444.14	480.26	445.47	357.38	446.76	488.57
442.85	428.89	444.16	439.57	445.48	482.98	446.78	472.76
442.86	451.66	444.18	437.36	445.54	454.98	446.79	431.28
442.91	454.26	444.20	527.90	445.57	427.41	446.82	427.94
442.94	421.52	444.31	443.06	445.59	368.19	446.84	439.90
442.95	418.32	444.37	447.59	445.64	408.06	446.85	431.75
442.97	357.97	444.38	397.18	445.65	502.42	446.87	396.55
442.98	477.22	444.40	450.26	445.66	423.95	446.89	469.30
442.99	442.09	444.42	391.81	445.67	455.39	446.91	432.72
443.01	439.06	444.45	434.10	445.68	424.35	446.92	399.95
443.02	465.26	444.48	463.08	445.72	425.72	446.93	418.06
443.03	424.55	444.52	426.93	445.73	477.93	446.96	448.73
443.04	390.59	444.53	385.81	445.74	513.43	446.98	476.95
443.05	396.76	444.58	423.32	445.76	474.31	446.99	373.26

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
447.04	402.24	448.27	410.69	449.57	457.00	450.87	465.49
447.05	356.70	448.29	440.77	449.60	419.84	450.88	399.22
447.06	371.28	448.30	442.64	449.61	403.90	450.93	461.04
447.07	488.43	448.31	423.52	449.64	453.48	450.94	464.48
447.09	436.33	448.32	496.92	449.65	355.06	450.95	412.34
447.10	456.66	448.35	499.82	449.66	413.51	450.98	427.70
447.13	489.52	448.38	451.32	449.67	503.41	450.99	413.24
447.14	450.01	448.39	451.32	449.68	488.07	451.02	419.17
447.17	450.44	448.40	464.09	449.69	430.10	451.03	451.41
447.19	320.38	448.41	448.53	449.71	488.24	451.07	409.75
447.20	401.53	448.43	461.98	449.75	412.46	451.08	432.82
447.24	496.23	448.44	391.88	449.76	405.23	451.12	435.27
447.25	391.42	448.46	424.81	449.79	382.30	451.15	394.74
447.28	515.79	448.52	470.68	449.83	484.00	451.19	436.99
447.33	483.91	448.53	457.33	449.84	436.90	451.21	488.11
447.34	444.32	448.55	393.08	449.85	454.43	451.22	393.89
447.37	497.99	448.61	430.82	449.87	445.98	451.26	466.23
447.40	494.88	448.62	441.86	449.88	430.09	451.27	487.29
447.41	432.78	448.66	457.28	449.95	411.53	451.28	484.27
447.42	416.29	448.71	440.49	449.97	397.16	451.32	482.22
447.44	443.03	448.72	423.23	449.98	420.29	451.34	453.93
447.46	383.14	448.74	467.01	449.99	394.78	451.35	380.67
447.48	454.89	448.76	412.16	450.00	457.26	451.36	463.35
447.51	453.30	448.77	469.94	450.01	385.07	451.40	447.24
447.53	381.62	448.80	405.15	450.06	439.82	451.43	372.97
447.55	404.58	448.85	434.94	450.08	448.47	451.47	436.87
447.56	499.62	448.86	426.95	450.10	446.28	451.49	394.29
447.57	388.16	448.87	404.02	450.16	380.41	451.51	487.31
447.58	416.08	448.91	423.86	450.18	401.54	451.52	444.83
447.59	429.43	448.92	448.00	450.25	432.40	451.53	465.06
447.61	480.72	448.93	392.30	450.27	370.23	451.54	442.63
447.63	442.32	448.95	397.44	450.28	489.59	451.56	358.80
447.65	473.94	448.96	324.70	450.31	464.01	451.57	479.16
447.66	437.20	448.97	463.56	450.36	460.60	451.58	246.36
447.71	453.13	448.99	385.75	450.39	469.91	451.59	428.71
447.72	407.33	449.00	534.45	450.40	438.61	451.62	435.72
447.73	500.45	449.09	468.27	450.41	422.29	451.63	403.17
447.77	453.38	449.11	361.64	450.44	421.91	451.64	463.29
447.78	415.55	449.15	474.83	450.45	465.17	451.68	492.08
447.79	517.30	449.17	398.02	450.46	449.76	451.70	399.86
447.81	442.31	449.22	371.60	450.48	400.16	451.74	414.55
447.82	477.37	449.25	442.22	450.51	428.02	451.75	471.54
447.85	434.37	449.29	480.33	450.52	400.72	451.76	434.66
447.87	489.33	449.30	440.33	450.57	427.95	451.77	469.78
447.88	393.51	449.32	394.00	450.59	462.53	451.78	438.69
447.89	433.46	449.36	344.48	450.60	475.27	451.84	494.29
447.93	475.48	449.40	456.39	450.61	467.06	451.87	389.77
447.95	355.42	449.41	410.16	450.62	479.64	451.99	500.18
448.00	401.42	449.42	458.61	450.64	398.63	452.00	447.56
448.01	420.16	449.43	329.22	450.65	422.53	452.03	433.44
448.03	480.62	449.44	424.84	450.67	422.03	452.05	434.62
448.04	403.82	449.45	448.80	450.68	433.17	452.09	445.24
448.05	443.17	449.46	461.11	450.69	457.75	452.11	355.47
448.06	445.29	449.47	404.48	450.70	439.55	452.12	364.90
448.10	418.40	449.48	388.21	450.71	432.32	452.13	437.34
448.12	459.52	449.50	505.67	450.75	493.05	452.15	504.14
448.15	452.65	449.51	440.47	450.77	473.69	452.17	467.97
448.20	442.37	449.53	373.29	450.83	457.88	452.19	391.87
448.21	420.59	449.54	381.50	450.84	429.34	452.26	428.20
448.26	487.16	449.55	421.19	450.86	466.17	452.28	350.56

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
452.29	409.74	453.35	379.47	454.73	413.18	456.09	453.60
452.31	410.42	453.36	421.59	454.74	458.59	456.10	505.31
452.32	426.40	453.37	424.92	454.75	379.22	456.11	418.09
452.33	376.67	453.39	429.52	454.80	409.00	456.14	431.12
452.35	384.76	453.44	466.95	454.81	425.81	456.16	451.96
452.37	452.64	453.48	434.17	454.83	422.93	456.17	418.82
452.39	427.17	453.49	365.78	454.85	479.55	456.20	418.66
452.40	499.19	453.51	447.16	454.86	452.19	456.21	479.42
452.41	406.00	453.52	446.16	454.87	455.86	456.22	471.68
452.42	452.95	453.54	483.40	454.89	489.85	456.23	415.66
452.43	406.22	453.55	378.25	454.92	432.03	456.24	434.50
452.45	410.78	453.57	446.42	454.93	443.26	456.25	492.02
452.47	453.95	453.58	422.27	454.94	412.73	456.26	461.95
452.48	476.71	453.60	450.36	454.97	412.51	456.28	445.93
452.49	400.13	453.63	412.56	454.98	478.21	456.31	419.00
452.51	459.72	453.65	340.44	454.99	395.22	456.32	341.09
452.53	480.93	453.66	422.01	455.01	407.41	456.33	426.21
452.54	424.86	453.68	423.82	455.03	487.94	456.34	479.90
452.55	424.43	453.70	458.32	455.04	421.87	456.36	423.94
452.56	456.76	453.77	472.80	455.07	437.15	456.38	445.03
452.57	421.85	453.81	429.33	455.09	473.34	456.41	439.18
452.60	472.14	453.82	439.22	455.12	479.63	456.42	450.05
452.65	458.56	453.84	506.31	455.14	470.13	456.46	448.64
452.67	438.71	453.87	447.16	455.15	420.85	456.47	494.36
452.68	467.04	453.91	428.61	455.18	480.46	456.49	407.47
452.69	452.59	453.94	429.11	455.20	415.68	456.50	452.29
452.71	424.74	453.96	420.84	455.21	383.83	456.51	416.08
452.73	435.48	453.97	452.63	455.23	433.47	456.52	412.25
452.76	364.51	453.98	382.37	455.25	420.84	456.54	455.24
452.77	501.88	453.99	416.06	455.29	428.54	456.56	440.73
452.80	442.31	454.00	431.75	455.32	404.13	456.58	445.69
452.81	432.59	454.03	408.75	455.33	428.94	456.59	460.55
452.82	426.79	454.04	464.96	455.35	463.85	456.60	412.97
452.84	486.87	454.07	416.16	455.36	424.06	456.62	476.19
452.85	449.49	454.14	447.82	455.39	494.65	456.63	439.71
452.86	430.54	454.17	482.10	455.40	465.63	456.64	395.80
452.87	458.40	454.21	451.11	455.42	458.75	456.65	414.98
452.92	434.52	454.24	498.63	455.46	437.95	456.67	419.89
452.93	488.49	454.29	526.84	455.48	396.76	456.68	425.76
452.94	435.43	454.33	432.70	455.49	387.67	456.69	421.30
452.95	369.87	454.34	409.28	455.54	457.08	456.70	519.61
452.96	452.62	454.37	417.76	455.55	448.64	456.71	476.70
452.97	441.10	454.39	440.98	455.57	436.63	456.72	446.50
452.98	404.70	454.40	376.40	455.58	431.68	456.75	429.47
452.99	432.17	454.41	421.82	455.65	396.70	456.76	438.39
453.01	500.95	454.43	414.63	455.68	490.87	456.77	363.08
453.06	490.75	454.44	441.49	455.72	477.72	456.79	414.37
453.08	389.11	454.45	461.72	455.74	454.89	456.80	457.31
453.09	430.90	454.52	534.17	455.76	473.67	456.84	458.98
453.13	453.50	454.53	443.29	455.79	479.75	456.85	359.14
453.16	430.52	454.54	414.05	455.80	397.42	456.86	361.46
453.18	449.00	454.55	448.85	455.82	414.13	456.87	363.50
453.19	461.07	454.56	448.84	455.85	486.05	456.89	480.77
453.22	434.22	454.58	462.70	455.86	396.46	456.91	479.09
453.24	469.79	454.59	452.01	455.92	419.98	456.92	383.15
453.27	376.11	454.61	417.39	455.99	426.07	456.93	406.65
453.28	468.47	454.62	401.20	456.02	456.15	456.95	445.01
453.30	483.13	454.64	427.03	456.04	429.38	456.97	391.79
453.32	421.47	454.66	435.50	456.07	461.31	457.02	424.28
453.33	438.82	454.67	505.56	456.08	457.94	457.04	436.56

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
457.08	471.20	458.18	445.03	459.53	467.51	460.78	421.01
457.11	444.69	458.19	421.02	459.54	438.53	460.79	469.37
457.13	491.63	458.22	382.90	459.57	424.13	460.80	441.19
457.14	407.01	458.24	400.79	459.58	467.94	460.83	458.38
457.15	443.78	458.25	464.65	459.59	462.63	460.84	459.22
457.17	405.87	458.30	479.94	459.60	403.76	460.85	489.64
457.18	450.66	458.34	403.23	459.62	436.64	460.87	470.54
457.20	433.55	458.36	371.52	459.64	454.09	460.88	440.77
457.22	442.91	458.39	454.32	459.65	455.18	460.90	433.26
457.23	388.63	458.41	438.48	459.67	507.84	460.91	504.69
457.24	422.71	458.45	428.50	459.68	408.25	460.93	390.04
457.25	532.32	458.46	437.30	459.71	389.20	460.95	498.53
457.27	460.61	458.50	432.27	459.73	474.01	460.97	472.98
457.28	425.63	458.51	470.21	459.80	441.28	460.98	477.84
457.31	427.11	458.55	457.10	459.82	483.57	460.99	371.64
457.32	436.13	458.56	400.58	459.84	405.13	461.00	383.62
457.34	427.96	458.58	419.50	459.85	500.68	461.01	486.58
457.36	450.55	458.59	461.88	459.86	463.39	461.02	469.93
457.37	445.48	458.63	469.76	459.88	455.96	461.07	476.83
457.38	409.29	458.64	444.81	459.89	473.54	461.09	458.18
457.39	471.55	458.65	392.02	459.90	428.94	461.14	469.24
457.40	439.77	458.66	481.53	459.91	449.65	461.15	474.23
457.41	415.25	458.73	392.78	459.93	447.18	461.17	396.42
457.42	449.73	458.74	482.42	459.94	442.50	461.18	416.49
457.45	466.51	458.75	459.54	459.95	440.29	461.21	436.09
457.48	459.90	458.76	436.51	459.96	470.93	461.26	455.30
457.51	409.95	458.77	469.48	459.97	422.03	461.27	445.47
457.53	463.02	458.80	398.95	460.00	433.34	461.28	461.69
457.54	426.00	458.83	465.56	460.05	470.29	461.29	473.62
457.56	484.47	458.85	501.14	460.07	502.88	461.31	396.79
457.59	462.83	458.88	395.41	460.09	537.68	461.32	436.92
457.62	358.15	458.93	399.27	460.12	462.38	461.37	509.56
457.63	429.42	458.96	521.75	460.15	488.60	461.38	452.20
457.64	475.73	458.97	401.56	460.16	363.84	461.39	400.80
457.65	418.65	458.98	400.68	460.18	413.79	461.40	455.87
457.66	442.01	458.99	396.40	460.20	464.37	461.44	498.58
457.69	469.57	459.01	502.47	460.22	448.13	461.45	428.37
457.70	445.23	459.03	451.39	460.24	433.66	461.46	447.50
457.73	459.04	459.04	471.58	460.25	430.90	461.48	442.06
457.74	446.05	459.06	386.09	460.29	474.68	461.49	480.84
457.75	410.28	459.10	423.07	460.30	447.93	461.52	463.45
457.76	381.50	459.11	432.91	460.31	443.66	461.58	420.47
457.78	457.41	459.14	493.21	460.32	466.31	461.59	445.52
457.80	448.83	459.15	500.31	460.35	404.97	461.62	423.00
457.81	423.11	459.16	438.89	460.36	433.57	461.63	457.70
457.82	404.33	459.18	445.59	460.37	440.05	461.66	465.30
457.83	433.16	459.19	393.20	460.43	386.65	461.67	440.46
457.84	464.57	459.20	467.42	460.44	434.35	461.70	435.41
457.85	471.79	459.21	429.06	460.45	420.18	461.73	520.45
457.90	416.96	459.27	421.82	460.48	435.14	461.76	505.04
457.92	447.21	459.28	468.63	460.51	460.05	461.77	413.27
457.95	377.80	459.34	447.50	460.54	422.09	461.78	473.33
457.97	395.14	459.36	458.97	460.55	436.24	461.79	456.74
458.02	323.09	459.39	429.40	460.56	524.21	461.82	407.51
458.05	410.15	459.40	389.87	460.58	499.11	461.83	484.43
458.06	452.66	459.41	434.88	460.68	406.27	461.84	446.97
458.07	492.74	459.42	410.73	460.69	456.14	461.85	448.07
458.11	407.64	459.45	452.80	460.73	498.45	461.88	437.94
458.12	424.91	459.49	429.74	460.75	494.18	461.90	445.88
458.16	480.51	459.51	477.37	460.77	420.67	461.91	495.01

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
461.94	424.00	463.24	469.10	464.54	457.80	465.58	457.30
461.97	456.50	463.26	453.86	464.56	412.25	465.59	451.34
462.00	421.01	463.27	403.63	464.57	432.38	465.61	458.70
462.01	417.20	463.28	459.28	464.58	519.49	465.63	453.81
462.03	504.37	463.30	470.46	464.62	482.99	465.67	430.90
462.04	476.06	463.32	424.31	464.67	467.94	465.68	445.26
462.06	439.69	463.34	430.88	464.68	469.60	465.72	473.98
462.07	457.70	463.37	474.23	464.69	475.24	465.73	464.87
462.09	469.10	463.38	495.20	464.70	494.22	465.75	504.82
462.10	463.12	463.45	467.29	464.71	519.46	465.81	461.03
462.14	442.87	463.47	455.80	464.72	417.00	465.82	490.14
462.20	472.84	463.48	456.38	464.73	435.76	465.85	457.22
462.23	535.87	463.51	523.37	464.75	433.26	465.86	392.74
462.24	443.52	463.52	482.67	464.76	477.36	465.87	485.48
462.26	458.25	463.53	445.97	464.78	431.90	465.90	361.29
462.28	397.73	463.55	467.09	464.81	437.87	465.95	429.90
462.30	463.01	463.56	489.32	464.83	485.18	465.98	469.64
462.32	428.79	463.57	479.41	464.84	453.37	465.99	486.21
462.36	447.74	463.59	428.56	464.86	479.12	466.02	480.86
462.40	411.96	463.60	496.73	464.88	446.47	466.04	436.80
462.41	473.15	463.61	467.41	464.89	409.70	466.05	490.41
462.42	392.14	463.62	395.11	464.91	458.90	466.06	435.67
462.43	419.57	463.64	480.36	464.93	457.68	466.07	435.58
462.48	489.72	463.68	456.99	464.95	411.89	466.08	446.97
462.49	390.09	463.70	489.31	464.96	390.45	466.12	456.12
462.50	429.52	463.74	484.43	464.97	458.00	466.13	455.18
462.51	426.27	463.75	460.09	464.98	442.34	466.17	437.90
462.54	500.97	463.78	440.35	465.00	493.27	466.19	520.35
462.56	483.45	463.79	472.84	465.02	394.06	466.20	388.24
462.59	457.08	463.80	478.88	465.04	409.74	466.22	509.79
462.60	434.09	463.82	430.23	465.05	392.96	466.23	418.97
462.61	335.23	463.83	348.13	465.09	448.21	466.24	387.92
462.63	518.31	463.85	421.13	465.10	447.07	466.29	459.51
462.66	420.89	463.87	489.50	465.13	460.92	466.31	489.62
462.67	459.68	463.88	455.37	465.15	468.53	466.33	370.50
462.68	469.79	463.89	481.50	465.16	450.90	466.34	423.00
462.70	425.26	463.90	423.54	465.17	426.86	466.35	490.92
462.76	442.40	463.92	444.53	465.19	478.77	466.36	418.40
462.77	415.13	463.94	451.72	465.20	396.00	466.37	475.84
462.78	455.16	463.96	459.64	465.22	534.65	466.38	449.20
462.79	451.29	463.98	453.97	465.24	441.94	466.39	457.20
462.80	463.97	464.01	499.73	465.27	518.86	466.40	477.63
462.82	503.76	464.03	423.18	465.28	427.56	466.41	416.40
462.83	443.17	464.08	439.56	465.33	480.31	466.42	411.36
462.85	418.76	464.10	424.53	465.34	416.77	466.45	457.33
462.87	458.79	464.12	426.93	465.37	406.84	466.46	-100.00
462.88	410.45	464.16	441.22	465.39	457.28	466.49	432.38
462.97	464.59	464.18	413.05	465.40	470.63	466.51	414.01
462.99	466.44	464.23	477.04	465.41	437.04	466.53	455.27
463.00	457.94	464.24	430.86	465.43	480.31	466.59	484.19
463.03	471.15	464.26	459.55	465.45	511.18	466.62	454.16
463.06	445.64	464.28	293.46	465.47	459.38	466.65	460.49
463.07	472.47	464.30	356.16	465.48	457.48	466.69	480.92
463.08	411.17	464.38	239.20	465.49	494.87	466.73	499.58
463.12	445.90	464.39	447.07	465.50	439.31	466.74	411.44
463.13	438.61	464.41	409.47	465.51	353.54	466.75	521.50
463.15	434.73	464.45	478.97	465.52	426.89	466.76	358.26
463.16	436.07	464.46	429.27	465.53	406.54	466.77	490.46
463.19	471.18	464.47	452.57	465.55	470.18	466.79	441.66
463.21	500.45	464.49	503.28	465.57	438.81	466.81	498.63

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
466.88	441.64	467.97	457.65	469.33	429.43	470.53	510.02
466.89	420.86	468.00	456.30	469.34	465.51	470.55	461.70
466.90	445.59	468.02	409.79	469.35	434.60	470.59	445.06
466.94	485.36	468.03	417.84	469.37	413.96	470.64	435.83
466.95	486.47	468.04	485.73	469.40	392.97	470.65	487.97
466.96	391.01	468.05	539.19	469.41	475.93	470.67	456.41
466.98	427.12	468.06	391.71	469.43	451.42	470.70	417.68
466.99	406.89	468.10	464.23	469.44	424.80	470.71	470.88
467.00	430.84	468.11	424.66	469.45	556.39	470.72	443.09
467.05	455.71	468.12	451.09	469.46	422.82	470.74	451.95
467.06	433.17	468.14	408.60	469.49	438.25	470.75	430.57
467.07	400.56	468.20	465.43	469.52	433.62	470.77	466.31
467.09	449.08	468.21	508.93	469.53	451.43	470.80	407.68
467.10	509.53	468.27	458.97	469.57	426.54	470.83	398.72
467.11	536.47	468.30	430.82	469.58	540.13	470.84	503.81
467.12	452.46	468.34	465.80	469.59	447.17	470.85	501.05
467.13	484.99	468.38	413.62	469.62	439.69	470.88	455.48
467.17	493.96	468.41	463.15	469.65	433.98	470.91	400.20
467.22	507.83	468.45	437.06	469.68	438.70	470.92	458.58
467.23	457.94	468.46	449.68	469.69	398.95	470.93	473.95
467.25	490.42	468.47	405.11	469.73	468.72	470.94	461.26
467.26	435.20	468.51	445.06	469.74	481.78	470.99	517.08
467.27	463.84	468.52	465.13	469.75	494.72	471.05	476.79
467.29	419.11	468.53	498.84	469.76	496.30	471.06	465.84
467.30	498.91	468.57	436.46	469.77	424.90	471.08	449.21
467.32	430.25	468.58	499.33	469.78	439.53	471.09	463.28
467.33	383.64	468.63	443.48	469.82	490.07	471.10	442.23
467.38	475.08	468.64	466.79	469.83	453.83	471.11	475.88
467.40	477.94	468.66	455.84	469.84	463.27	471.13	430.31
467.41	469.32	468.69	472.88	469.86	488.92	471.17	502.18
467.43	503.13	468.70	498.40	469.87	423.19	471.19	440.69
467.44	458.81	468.72	415.97	469.89	494.15	471.21	470.98
467.45	450.55	468.79	497.59	469.95	486.07	471.22	512.67
467.49	442.72	468.80	511.98	469.96	542.20	471.23	496.18
467.50	458.32	468.81	437.18	469.97	502.50	471.24	445.30
467.52	463.28	468.82	473.00	470.01	407.06	471.26	440.66
467.53	489.77	468.84	466.79	470.06	447.72	471.27	458.43
467.55	492.52	468.85	439.25	470.09	492.89	471.28	440.27
467.56	456.40	468.91	438.50	470.10	461.72	471.29	409.57
467.57	454.83	468.92	398.25	470.12	481.61	471.32	424.77
467.58	483.99	468.94	432.70	470.13	446.33	471.34	435.73
467.59	421.86	468.95	438.81	470.15	430.30	471.35	399.94
467.61	468.00	468.96	452.52	470.16	467.58	471.36	516.37
467.62	423.99	468.98	464.80	470.17	436.08	471.37	485.98
467.64	520.28	468.99	488.65	470.19	429.15	471.38	358.57
467.65	483.01	469.00	502.07	470.23	460.30	471.40	454.18
467.67	522.61	469.01	472.48	470.25	475.72	471.42	420.00
467.70	443.35	469.05	485.97	470.27	458.52	471.44	483.65
467.73	431.73	469.06	464.43	470.30	481.60	471.45	404.46
467.74	427.61	469.11	460.74	470.31	500.43	471.48	495.55
467.75	448.99	469.12	405.01	470.32	534.88	471.50	453.14
467.77	467.94	469.13	422.66	470.34	402.81	471.53	417.15
467.78	412.45	469.15	472.51	470.35	473.42	471.54	454.75
467.81	444.08	469.16	450.48	470.38	467.83	471.55	441.10
467.82	451.89	469.17	404.33	470.39	433.82	471.56	448.76
467.89	423.63	469.18	415.59	470.40	460.84	471.57	429.81
467.91	393.99	469.22	463.18	470.44	477.60	471.64	444.16
467.93	444.01	469.29	488.80	470.50	473.86	471.65	509.66
467.94	425.85	469.31	463.39	470.51	452.76	471.67	433.74
467.96	447.74	469.32	458.95	470.52	463.33	471.68	466.78



PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
471.69	401.27	472.94	457.13	474.04	461.49	475.18	409.63
471.71	476.47	472.97	492.29	474.08	428.39	475.19	409.17
471.75	471.06	472.98	459.11	474.10	456.88	475.21	451.14
471.77	480.78	473.00	538.87	474.12	419.08	475.24	407.29
471.79	454.02	473.03	477.48	474.13	439.85	475.25	516.81
471.81	473.23	473.05	528.98	474.16	496.32	475.28	473.75
471.84	431.17	473.07	470.58	474.17	486.03	475.30	419.02
471.85	505.58	473.09	403.31	474.20	464.61	475.31	498.36
471.86	447.41	473.10	450.95	474.21	457.84	475.32	444.19
471.87	415.83	473.13	465.15	474.23	420.93	475.33	435.21
471.89	491.73	473.17	483.00	474.26	488.84	475.36	478.93
471.92	449.53	473.20	433.17	474.28	429.56	475.42	476.08
471.94	468.31	473.21	446.56	474.30	463.95	475.48	447.67
471.95	471.19	473.22	374.49	474.32	461.14	475.51	445.16
472.00	484.09	473.24	529.02	474.34	506.83	475.55	441.37
472.01	477.14	473.25	479.37	474.35	496.15	475.56	468.61
472.02	439.96	473.26	337.88	474.37	501.08	475.58	493.90
472.03	518.29	473.27	441.17	474.40	502.75	475.60	374.27
472.05	405.60	473.28	431.13	474.42	449.79	475.61	454.61
472.06	400.64	473.31	445.79	474.44	458.83	475.62	443.73
472.08	437.01	473.32	471.20	474.45	437.62	475.63	426.62
472.10	407.96	473.35	414.39	474.47	504.51	475.64	476.00
472.11	441.84	473.39	430.92	474.49	440.00	475.66	488.16
472.12	498.89	473.40	453.97	474.51	423.07	475.67	496.30
472.13	435.04	473.41	514.14	474.52	466.89	475.69	472.74
472.14	407.13	473.42	455.31	474.53	429.66	475.71	416.03
472.17	453.96	473.43	483.86	474.55	475.59	475.73	447.22
472.18	456.99	473.44	426.49	474.57	437.22	475.75	474.07
472.21	457.11	473.45	469.78	474.58	442.14	475.77	466.64
472.25	429.74	473.50	375.54	474.59	460.39	475.81	467.88
472.29	485.50	473.53	425.50	474.60	450.38	475.83	414.64
472.30	426.38	473.54	452.82	474.62	421.19	475.86	425.64
472.31	451.48	473.57	454.18	474.63	453.42	475.87	509.24
472.34	488.74	473.58	551.47	474.69	418.88	475.90	447.74
472.35	443.58	473.63	425.34	474.71	493.28	475.91	481.76
472.37	446.06	473.66	374.01	474.76	414.08	475.92	438.80
472.42	516.24	473.68	436.62	474.77	485.13	475.94	482.09
472.43	455.66	473.69	493.90	474.78	486.20	475.95	432.43
472.44	467.02	473.70	473.00	474.79	496.41	475.96	446.15
472.45	484.07	473.71	443.75	474.83	395.00	475.97	364.50
472.46	464.40	473.72	480.67	474.86	424.53	475.98	420.49
472.47	455.49	473.73	420.59	474.94	451.59	475.99	422.53
472.50	458.76	473.77	457.21	474.95	428.76	476.01	510.25
472.61	499.97	473.78	429.92	474.96	470.62	476.02	489.21
472.63	407.00	473.80	427.34	474.97	457.82	476.03	434.82
472.66	415.95	473.81	483.11	474.98	484.82	476.04	541.34
472.67	467.64	473.82	461.08	474.99	410.61	476.06	476.77
472.68	445.91	473.84	443.04	475.00	511.09	476.07	522.46
472.72	441.41	473.86	444.45	475.01	398.70	476.09	483.21
472.73	433.03	473.88	370.40	475.03	444.46	476.11	441.34
472.74	448.73	473.90	444.73	475.05	436.27	476.12	435.80
472.76	429.86	473.91	470.31	475.07	420.96	476.17	476.69
472.80	521.54	473.92	476.04	475.08	469.30	476.19	429.90
472.81	457.49	473.93	338.39	475.09	455.68	476.21	464.44
472.83	411.39	473.94	498.66	475.10	448.79	476.22	458.36
472.85	418.70	473.95	458.59	475.11	499.30	476.24	419.09
472.86	453.73	473.96	421.29	475.12	451.03	476.25	476.58
472.88	464.67	473.99	446.20	475.13	498.21	476.31	469.05
472.89	471.77	474.01	410.31	475.15	398.55	476.36	436.34
472.90	488.12	474.03	503.61	475.16	433.60	476.37	442.50

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476.38	431.60	477.64	501.44	478.95	456.98	480.08	485.76
476.40	440.06	477.65	445.03	478.97	501.39	480.09	450.78
476.41	466.78	477.66	454.42	478.98	449.91	480.10	443.74
476.42	447.64	477.67	432.42	479.00	507.80	480.13	515.29
476.46	454.44	477.68	493.79	479.02	466.75	480.15	467.17
476.47	482.75	477.69	479.31	479.05	456.20	480.18	472.40
476.49	485.76	477.70	504.08	479.06	530.69	480.20	509.38
476.52	405.73	477.72	426.53	479.07	483.78	480.22	493.34
476.53	537.36	477.77	515.49	479.08	491.20	480.23	507.26
476.54	406.10	477.79	465.06	479.11	492.51	480.26	418.27
476.56	522.35	477.81	467.67	479.12	471.84	480.28	447.67
476.57	461.06	477.83	500.02	479.13	506.34	480.32	435.87
476.58	404.31	477.85	433.84	479.16	454.04	480.36	406.87
476.61	472.49	477.89	472.00	479.17	503.31	480.37	412.56
476.64	491.70	477.94	521.76	479.22	499.58	480.38	462.47
476.65	474.97	477.96	467.07	479.23	451.14	480.42	418.45
476.69	493.43	477.99	466.83	479.24	460.55	480.46	490.19
476.71	489.53	478.00	519.01	479.26	454.51	480.47	414.68
476.75	506.66	478.02	429.60	479.27	374.50	480.50	476.84
476.76	510.53	478.04	473.55	479.29	443.88	480.53	443.22
476.77	501.95	478.10	444.55	479.33	447.79	480.54	511.80
476.82	485.20	478.12	458.96	479.34	452.83	480.56	478.54
476.85	437.30	478.13	477.98	479.37	512.60	480.58	459.03
476.88	540.25	478.16	470.21	479.39	474.66	480.59	471.70
476.91	443.11	478.26	454.18	479.40	452.05	480.60	469.74
476.92	391.54	478.27	454.43	479.41	536.94	480.63	495.08
476.95	494.15	478.29	493.04	479.43	470.69	480.64	455.84
476.96	442.35	478.30	461.47	479.44	496.24	480.65	432.23
476.98	468.32	478.31	484.11	479.47	456.80	480.68	421.34
477.00	491.87	478.33	458.71	479.48	475.45	480.71	442.72
477.01	449.71	478.37	459.68	479.49	504.79	480.72	514.27
477.02	471.60	478.39	391.53	479.53	441.81	480.75	472.68
477.03	486.49	478.44	478.66	479.54	462.99	480.76	469.75
477.05	455.76	478.45	382.66	479.59	425.97	480.78	482.09
477.11	511.20	478.46	460.38	479.62	498.45	480.83	478.16
477.12	387.31	478.47	493.91	479.63	436.29	480.84	474.04
477.14	454.85	478.50	472.84	479.65	403.31	480.85	489.34
477.16	497.63	478.53	477.11	479.66	489.22	480.87	454.06
477.17	496.84	478.54	479.45	479.67	407.14	480.89	484.75
477.19	440.26	478.55	433.46	479.68	448.75	480.90	496.32
477.20	443.49	478.57	444.55	479.70	417.27	480.91	451.78
477.21	473.96	478.61	440.29	479.72	429.06	480.92	507.33
477.22	492.02	478.63	491.95	479.74	454.38	480.95	439.45
477.24	493.78	478.65	491.23	479.75	411.90	480.96	452.02
477.28	451.32	478.66	393.94	479.76	487.18	480.98	425.35
477.31	478.81	478.67	476.54	479.77	382.32	480.99	450.37
477.32	516.89	478.70	538.76	479.78	399.03	481.01	472.63
477.34	496.07	478.71	489.96	479.79	506.50	481.02	525.56
477.35	501.58	478.73	420.35	479.80	436.36	481.03	505.92
477.37	444.28	478.75	451.71	479.82	402.89	481.04	463.22
477.42	454.91	478.76	485.51	479.85	463.83	481.05	578.82
477.43	428.04	478.80	460.59	479.86	404.36	481.06	564.44
477.45	446.15	478.81	494.09	479.87	444.53	481.07	447.60
477.47	435.27	478.82	488.96	479.89	480.02	481.12	434.88
477.50	483.19	478.85	518.21	479.91	471.08	481.13	443.30
477.51	426.13	478.86	456.24	479.95	417.41	481.14	467.83
477.53	412.86	478.87	524.50	479.98	482.52	481.17	454.25
477.59	459.75	478.91	495.31	480.02	486.70	481.18	509.70
477.60	474.23	478.92	510.07	480.06	439.63	481.19	509.30
477.62	465.07	478.94	521.73	480.07	431.64	481.21	489.97

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
481.22	499.20	482.31	449.69	483.29	457.74	484.36	458.92
481.23	490.79	482.32	467.83	483.30	467.49	484.37	467.79
481.24	341.84	482.34	396.59	483.34	442.53	484.38	488.47
481.30	430.24	482.35	486.02	483.35	475.71	484.39	473.02
481.36	464.20	482.36	500.41	483.36	463.23	484.40	425.71
481.39	479.89	482.38	459.84	483.39	430.75	484.41	527.70
481.41	477.12	482.40	369.11	483.44	460.90	484.42	488.18
481.42	469.54	482.41	499.48	483.45	507.90	484.43	469.29
481.43	488.82	482.43	457.17	483.47	447.55	484.45	508.04
481.44	409.85	482.44	481.48	483.48	436.95	484.46	509.41
481.45	475.41	482.45	512.81	483.49	455.48	484.47	473.09
481.47	457.54	482.46	489.96	483.50	495.48	484.49	406.09
481.49	473.18	482.48	472.41	483.51	440.40	484.51	475.85
481.50	456.44	482.49	517.86	483.52	495.40	484.52	420.07
481.52	463.52	482.50	432.76	483.54	474.25	484.54	555.10
481.53	499.46	482.51	453.01	483.56	464.31	484.55	376.46
481.55	479.93	482.53	512.02	483.57	510.31	484.56	511.77
481.56	464.74	482.54	480.37	483.58	456.94	484.60	449.67
481.58	459.91	482.55	418.51	483.60	431.52	484.62	462.60
481.60	528.15	482.57	452.93	483.61	518.33	484.63	412.68
481.67	448.98	482.60	529.92	483.66	377.06	484.65	483.22
481.68	474.94	482.61	469.44	483.68	472.08	484.67	480.24
481.69	492.74	482.64	457.05	483.70	450.66	484.68	468.89
481.70	534.61	482.65	446.91	483.71	496.81	484.69	453.58
481.71	414.01	482.66	493.64	483.73	479.81	484.71	497.22
481.75	462.51	482.68	463.44	483.75	472.77	484.72	460.25
481.76	481.64	482.70	455.77	483.79	499.77	484.73	411.22
481.77	468.57	482.72	432.41	483.83	503.41	484.74	485.74
481.78	449.12	482.73	412.24	483.84	524.68	484.75	472.61
481.79	455.52	482.77	505.75	483.86	447.77	484.77	463.59
481.80	407.51	482.79	432.41	483.87	457.88	484.78	440.49
481.81	457.97	482.80	462.53	483.89	480.21	484.80	497.48
481.82	482.65	482.82	423.71	483.91	480.57	484.82	449.05
481.83	531.11	482.83	459.80	483.92	436.87	484.84	463.22
481.84	425.00	482.84	455.95	483.93	468.66	484.86	523.17
481.85	472.45	482.85	507.93	483.95	483.31	484.87	475.03
481.87	485.51	482.87	452.08	483.96	429.72	484.89	473.57
481.90	455.30	482.88	417.04	483.97	509.26	484.92	399.23
481.93	511.91	482.89	457.97	483.99	497.29	484.94	402.29
481.94	462.46	482.90	472.15	484.00	441.94	484.95	477.69
481.96	507.56	482.92	464.63	484.01	483.94	484.97	404.07
481.98	503.46	482.96	472.33	484.02	508.57	485.01	504.92
482.01	489.75	482.97	491.38	484.04	428.23	485.03	476.24
482.03	449.63	482.98	490.22	484.05	483.29	485.04	549.65
482.04	492.64	483.00	-100.00	484.06	466.76	485.06	433.33
482.06	442.19	483.01	451.37	484.07	494.44	485.08	519.19
482.09	463.31	483.02	447.86	484.08	490.70	485.12	453.79
482.11	486.46	483.04	483.21	484.09	475.49	485.14	483.30
482.12	472.80	483.05	482.56	484.11	492.90	485.15	447.63
482.13	519.49	483.07	525.12	484.14	468.35	485.16	420.17
482.15	453.04	483.08	461.37	484.16	448.10	485.17	449.14
482.17	427.29	483.14	466.28	484.18	492.16	485.18	469.54
482.18	460.25	483.15	429.40	484.20	461.24	485.19	465.49
482.19	494.23	483.16	415.48	484.21	442.93	485.20	483.37
482.23	396.31	483.18	522.84	484.22	478.74	485.22	423.99
482.25	507.60	483.19	489.63	484.24	438.67	485.23	459.83
482.27	461.26	483.21	421.35	484.28	476.08	485.30	462.33
482.28	458.73	483.24	442.91	484.31	458.72	485.31	496.17
482.29	457.89	483.26	424.75	484.32	420.47	485.32	460.52
482.30	479.42	483.27	528.26	484.34	422.59	485.34	463.19

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
485.35	450.64	486.53	496.96	487.57	462.36	488.64	529.11
485.37	479.86	486.54	474.22	487.58	479.35	488.66	490.54
485.38	449.26	486.56	407.22	487.59	463.61	488.67	453.55
485.41	436.53	486.57	462.79	487.60	485.98	488.68	525.14
485.43	527.02	486.58	453.63	487.61	479.29	488.72	480.74
485.46	472.37	486.59	403.46	487.62	472.84	488.73	488.78
485.47	458.88	486.62	395.68	487.63	433.18	488.77	500.69
485.48	434.25	486.63	432.58	487.69	532.21	488.78	477.49
485.51	487.58	486.64	485.47	487.71	503.25	488.79	516.75
485.52	494.32	486.65	475.14	487.72	481.58	488.80	470.53
485.57	416.49	486.70	451.92	487.74	467.76	488.82	447.92
485.59	485.04	486.71	497.81	487.75	454.90	488.86	494.29
485.60	534.25	486.73	528.96	487.77	464.73	488.89	469.52
485.61	419.80	486.75	465.45	487.78	492.03	488.91	420.00
485.62	474.12	486.76	471.65	487.79	383.26	488.92	540.52
485.63	603.22	486.78	523.38	487.80	469.42	488.94	407.86
485.64	469.68	486.80	459.39	487.82	468.99	488.96	477.41
485.65	512.00	486.82	484.72	487.85	492.09	488.99	493.11
485.66	502.45	486.85	485.61	487.86	524.18	489.01	505.30
485.67	432.90	486.86	462.38	487.87	464.01	489.03	486.17
485.70	514.30	486.91	487.48	487.89	497.54	489.07	520.51
485.71	321.98	486.93	518.78	487.90	499.33	489.09	475.17
485.72	489.96	486.96	466.86	487.96	510.63	489.10	445.42
485.75	477.75	486.98	442.62	488.01	453.14	489.11	467.71
485.80	494.77	487.01	449.24	488.03	438.45	489.13	542.27
485.81	563.39	487.02	471.66	488.05	455.14	489.15	464.17
485.84	458.11	487.03	470.60	488.08	501.91	489.16	467.84
485.88	465.95	487.04	520.70	488.09	491.05	489.17	534.91
485.89	476.78	487.05	466.05	488.13	469.44	489.18	481.49
485.90	457.61	487.06	456.32	488.14	519.19	489.20	398.42
485.91	474.12	487.07	471.85	488.17	482.66	489.22	435.47
485.92	401.42	487.08	486.65	488.19	476.33	489.23	437.91
485.93	480.84	487.09	470.87	488.20	485.06	489.24	453.85
485.95	486.03	487.10	436.17	488.21	496.07	489.25	417.11
485.97	449.52	487.11	487.71	488.22	436.71	489.28	475.14
485.98	473.55	487.12	505.87	488.23	491.52	489.29	507.30
486.00	390.12	487.14	506.44	488.25	418.36	489.30	434.77
486.01	452.50	487.16	484.51	488.27	471.22	489.31	495.71
486.05	453.85	487.17	472.39	488.28	439.52	489.32	496.08
486.07	520.84	487.18	521.64	488.29	437.19	489.35	453.82
486.09	536.17	487.19	477.41	488.31	452.02	489.36	494.89
486.11	517.68	487.22	464.05	488.32	467.66	489.37	537.78
486.12	499.29	487.24	468.90	488.33	443.61	489.38	424.33
486.14	472.43	487.26	449.61	488.34	455.89	489.40	491.32
486.17	447.85	487.28	476.71	488.35	493.47	489.41	532.88
486.19	485.24	487.30	544.18	488.36	482.56	489.42	408.80
486.22	454.48	487.31	465.51	488.38	474.14	489.43	505.07
486.23	536.90	487.32	437.52	488.39	486.78	489.44	473.58
486.25	450.02	487.38	504.56	488.41	467.29	489.45	415.91
486.28	465.06	487.39	432.51	488.43	447.57	489.46	447.26
486.31	544.65	487.40	530.59	488.44	481.29	489.48	488.50
486.33	486.15	487.41	508.50	488.45	484.28	489.49	503.87
486.36	435.46	487.44	491.56	488.49	419.43	489.50	472.32
486.38	452.75	487.48	451.80	488.50	435.41	489.52	522.17
486.39	504.26	487.49	418.72	488.54	515.67	489.53	472.65
486.41	456.58	487.50	415.23	488.55	499.73	489.54	509.33
486.44	393.51	487.51	558.50	488.57	432.06	489.55	519.34
486.45	507.55	487.52	524.29	488.59	458.98	489.57	537.99
486.49	410.55	487.53	478.62	488.60	462.70	489.60	488.28
486.52	469.47	487.55	516.38	488.63	461.14	489.61	414.88

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
489.62	456.77	490.69	540.93	491.80	495.37	493.02	493.36
489.66	462.73	490.70	455.34	491.81	451.05	493.03	463.05
489.68	425.81	490.71	489.19	491.82	442.62	493.06	538.24
489.70	404.89	490.73	464.10	491.87	503.08	493.08	500.50
489.71	493.28	490.74	450.12	491.91	501.89	493.09	367.73
489.74	529.24	490.75	450.95	491.93	508.21	493.10	484.25
489.75	432.84	490.76	521.70	491.94	458.99	493.11	510.02
489.77	595.71	490.77	496.63	491.95	383.64	493.13	463.06
489.78	459.15	490.79	479.23	491.97	506.52	493.14	464.09
489.79	517.48	490.80	485.91	492.01	452.79	493.16	430.91
489.82	467.51	490.83	449.67	492.06	473.22	493.17	473.32
489.83	421.89	490.87	501.43	492.08	495.81	493.18	478.66
489.84	538.88	490.88	480.56	492.09	465.69	493.20	446.85
489.85	452.37	490.89	-100.00	492.12	455.75	493.22	512.29
489.86	487.55	490.90	469.77	492.13	434.27	493.24	501.26
489.88	399.53	490.91	500.12	492.14	459.05	493.26	452.48
489.90	507.19	490.94	444.14	492.15	468.42	493.30	491.40
489.92	477.34	490.95	500.83	492.16	443.82	493.32	440.65
489.94	519.06	490.99	469.52	492.20	479.30	493.37	497.88
489.96	538.98	491.00	383.60	492.21	512.35	493.40	465.60
489.98	496.26	491.01	470.49	492.22	445.82	493.44	513.86
489.99	413.63	491.02	497.18	492.23	485.00	493.48	473.34
490.03	442.92	491.04	423.11	492.24	481.78	493.50	501.75
490.04	409.70	491.05	511.28	492.25	581.23	493.52	461.18
490.05	499.02	491.06	427.55	492.26	497.74	493.53	434.92
490.08	447.14	491.12	474.42	492.27	442.04	493.55	444.38
490.11	496.43	491.15	509.34	492.28	432.44	493.59	472.08
490.12	428.69	491.19	479.57	492.29	467.55	493.63	488.90
490.13	483.23	491.20	465.92	492.31	467.71	493.65	486.19
490.14	484.23	491.23	537.91	492.36	468.75	493.67	452.79
490.16	490.32	491.24	439.87	492.37	458.61	493.68	460.90
490.18	446.97	491.26	485.86	492.39	513.09	493.69	455.57
490.22	449.37	491.27	515.01	492.42	459.71	493.70	497.65
490.23	426.02	491.32	443.83	492.46	393.06	493.72	519.23
490.24	490.64	491.33	458.61	492.49	478.22	493.75	483.77
490.25	526.43	491.34	433.95	492.52	483.03	493.76	444.65
490.27	461.75	491.38	477.44	492.55	554.25	493.77	445.22
490.30	464.50	491.39	484.10	492.56	451.60	493.78	498.95
490.31	478.92	491.40	519.04	492.57	493.16	493.79	505.64
490.32	475.72	491.42	468.90	492.58	469.03	493.81	455.94
490.34	503.93	491.43	467.12	492.61	498.41	493.82	426.96
490.38	530.82	491.45	448.65	492.62	451.49	493.84	492.74
490.40	474.98	491.47	453.97	492.65	434.18	493.87	490.57
490.41	481.19	491.49	486.74	492.66	495.04	493.90	444.30
490.42	457.88	491.50	464.16	492.67	526.53	493.92	458.16
490.43	495.55	491.51	467.77	492.68	440.01	493.95	485.32
490.44	441.61	491.53	487.32	492.69	449.69	493.96	522.54
490.47	530.57	491.55	501.93	492.74	478.26	493.98	481.16
490.50	458.88	491.56	461.45	492.78	489.75	493.99	514.08
490.53	472.74	491.58	441.87	492.79	487.98	494.00	511.21
490.54	508.68	491.60	450.16	492.80	449.94	494.01	477.42
490.56	461.10	491.62	459.43	492.81	465.20	494.02	502.16
490.57	456.66	491.63	476.05	492.82	437.18	494.03	422.74
490.58	528.43	491.67	484.12	492.83	510.84	494.09	430.58
490.61	493.51	491.68	491.95	492.84	492.08	494.12	508.32
490.62	442.01	491.71	469.11	492.87	502.45	494.14	482.63
490.63	494.72	491.75	519.22	492.88	562.21	494.16	481.93
490.64	532.00	491.76	494.83	492.94	397.41	494.17	437.63
490.65	450.94	491.77	447.73	492.95	466.82	494.23	503.18
490.67	459.66	491.78	450.88	492.98	472.31	494.24	483.28

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
494.26	462.20	495.56	491.28	496.70	537.29	497.73	451.45
494.27	535.08	495.57	472.75	496.71	546.32	497.78	529.74
494.30	505.14	495.58	477.70	496.72	515.36	497.80	472.31
494.32	405.68	495.60	526.67	496.76	403.49	497.81	445.48
494.34	459.49	495.62	501.94	496.78	504.53	497.82	438.99
494.35	464.64	495.66	445.14	496.79	464.06	497.83	458.74
494.36	468.49	495.70	484.17	496.80	517.97	497.85	510.09
494.38	502.78	495.76	494.16	496.81	498.54	497.87	461.14
494.42	473.58	495.77	451.49	496.82	491.33	497.91	428.95
494.43	467.83	495.78	497.15	496.83	456.08	497.92	516.57
494.46	513.14	495.81	487.87	496.85	445.72	497.96	520.12
494.51	483.27	495.82	494.10	496.90	487.97	497.97	475.87
494.52	477.94	495.84	514.04	496.91	452.05	497.99	489.97
494.55	416.92	495.85	479.15	496.92	534.65	498.02	520.43
494.56	452.29	495.86	518.42	496.93	528.95	498.04	516.71
494.57	485.30	495.87	461.15	496.99	521.23	498.07	514.52
494.58	508.60	495.90	450.39	497.01	456.45	498.08	475.85
494.60	421.41	495.94	522.60	497.03	503.24	498.10	452.03
494.63	466.82	495.95	456.52	497.04	431.40	498.12	477.69
494.67	477.41	495.98	436.61	497.05	464.42	498.14	426.34
494.69	525.82	495.99	502.34	497.07	511.67	498.16	493.50
494.74	475.52	496.02	499.17	497.08	476.03	498.19	455.77
494.78	485.46	496.03	388.04	497.13	479.41	498.21	524.00
494.79	504.93	496.05	568.59	497.14	441.53	498.22	440.15
494.82	510.58	496.06	519.32	497.16	435.58	498.23	497.77
494.83	455.41	496.07	550.28	497.17	427.83	498.25	505.36
494.84	483.24	496.09	474.88	497.20	440.97	498.29	448.13
494.87	476.67	496.10	521.62	497.22	475.15	498.30	453.23
494.91	452.24	496.11	506.70	497.23	503.07	498.31	479.82
494.92	487.01	496.12	483.88	497.24	443.37	498.32	449.56
494.93	482.70	496.14	490.66	497.26	439.61	498.33	436.80
494.96	466.73	496.15	472.98	497.28	456.95	498.34	521.04
494.97	468.07	496.16	435.33	497.29	509.36	498.35	477.01
494.99	500.42	496.17	496.63	497.30	505.55	498.36	541.50
495.01	522.52	496.18	522.65	497.31	426.86	498.37	465.37
495.02	468.46	496.20	507.72	497.32	514.86	498.38	466.37
495.04	530.79	496.22	516.64	497.33	577.72	498.39	476.92
495.06	507.48	496.23	513.21	497.34	439.57	498.40	463.65
495.08	498.83	496.24	544.95	497.36	516.07	498.42	495.97
495.11	504.12	496.26	516.82	497.37	509.22	498.43	479.56
495.12	497.17	496.28	473.90	497.39	485.29	498.44	456.67
495.15	474.11	496.29	524.39	497.40	488.22	498.47	445.34
495.17	524.68	496.30	479.49	497.41	506.77	498.48	543.68
495.18	495.13	496.32	494.63	497.43	473.48	498.50	456.54
495.21	418.94	496.33	483.04	497.44	444.48	498.51	495.71
495.25	456.74	496.34	476.41	497.45	457.83	498.53	493.04
495.26	504.96	496.38	489.90	497.46	490.50	498.54	525.35
495.28	468.06	496.40	443.51	497.48	426.29	498.55	440.87
495.31	546.57	496.45	510.17	497.49	522.57	498.56	436.58
495.32	492.79	496.46	478.95	497.50	400.19	498.57	437.33
495.38	484.97	496.50	451.11	497.51	445.03	498.59	467.11
495.42	464.64	496.51	477.21	497.53	459.16	498.60	480.66
495.43	468.73	496.54	497.89	497.54	481.26	498.61	502.92
495.45	462.89	496.55	489.41	497.55	440.41	498.62	500.22
495.48	512.03	496.56	474.86	497.56	472.08	498.63	461.74
495.49	443.62	496.59	494.57	497.57	499.44	498.65	513.53
495.50	522.69	496.61	450.95	497.60	490.14	498.67	462.27
495.51	479.64	496.63	503.26	497.62	465.47	498.69	496.31
495.52	472.33	496.67	419.24	497.66	512.92	498.70	517.48
495.53	542.02	496.69	450.43	497.67	411.35	498.72	545.60

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
498.73	544.47	499.82	451.23	500.89	501.71	501.87	474.31
498.76	431.56	499.83	473.67	500.91	493.31	501.88	469.81
498.77	434.53	499.84	480.76	500.92	488.10	501.90	480.21
498.78	474.73	499.85	522.04	500.94	489.44	501.91	493.64
498.79	533.99	499.90	468.97	500.95	576.32	501.92	523.38
498.80	484.79	499.93	453.30	500.96	460.60	501.94	470.31
498.82	536.94	499.94	525.68	500.97	473.96	501.95	495.98
498.83	406.10	499.97	435.77	501.00	511.12	501.97	496.11
498.85	486.39	499.99	444.58	501.02	501.85	501.99	498.83
498.86	498.35	500.00	491.20	501.03	457.97	502.02	494.76
498.92	494.13	500.01	467.84	501.04	485.58	502.03	482.98
498.93	434.67	500.02	495.56	501.05	538.54	502.05	469.28
498.95	472.52	500.03	490.98	501.06	474.19	502.11	537.72
498.96	440.08	500.06	461.99	501.07	481.34	502.13	464.54
498.98	493.30	500.07	515.13	501.10	419.81	502.18	425.49
498.99	430.19	500.08	520.90	501.11	485.58	502.21	531.77
499.00	521.47	500.10	466.70	501.14	497.73	502.22	432.64
499.03	505.01	500.11	463.20	501.19	461.53	502.23	471.18
499.04	485.26	500.13	426.91	501.24	490.06	502.24	491.91
499.07	453.95	500.14	508.41	501.25	510.82	502.25	462.71
499.09	549.73	500.19	484.44	501.26	458.15	502.26	505.06
499.10	490.86	500.20	494.70	501.27	511.53	502.27	463.60
499.13	540.26	500.21	465.77	501.29	543.39	502.29	439.76
499.14	498.12	500.24	407.98	501.30	450.98	502.30	514.79
499.17	536.50	500.26	488.91	501.31	461.91	502.32	470.22
499.20	446.92	500.27	461.29	501.32	485.33	502.34	490.96
499.22	437.96	500.30	441.83	501.33	489.27	502.36	418.23
499.23	432.62	500.31	462.64	501.36	487.92	502.37	439.84
499.27	529.84	500.37	473.20	501.38	473.51	502.38	490.81
499.28	436.87	500.38	556.61	501.39	472.78	502.39	532.74
499.31	485.87	500.42	464.65	501.40	478.99	502.44	520.23
499.35	508.09	500.43	427.81	501.42	504.24	502.45	499.92
499.37	504.39	500.44	457.85	501.44	470.08	502.46	365.17
499.38	479.77	500.45	406.66	501.45	518.21	502.48	488.20
499.39	517.31	500.47	464.64	501.46	484.15	502.51	484.64
499.42	471.48	500.48	488.41	501.47	471.44	502.53	478.14
499.43	502.32	500.49	447.84	501.49	423.58	502.55	474.17
499.44	439.20	500.50	461.51	501.50	462.87	502.56	484.03
499.45	475.36	500.51	465.48	501.53	461.74	502.58	555.53
499.46	511.86	500.52	493.86	501.54	475.43	502.59	448.84
499.47	477.78	500.53	483.62	501.55	520.67	502.60	485.96
499.48	475.09	500.54	454.73	501.56	464.60	502.65	493.37
499.50	457.68	500.55	456.23	501.58	419.68	502.66	477.48
499.53	504.20	500.56	448.94	501.59	492.59	502.69	497.76
499.54	548.36	500.58	473.48	501.60	430.70	502.71	467.73
499.56	472.31	500.59	574.50	501.62	425.48	502.72	443.18
499.57	532.02	500.60	500.93	501.63	462.48	502.73	465.45
499.58	491.77	500.63	549.27	501.65	384.01	502.74	512.93
499.59	460.67	500.65	519.38	501.66	495.18	502.75	486.31
499.60	479.42	500.66	479.91	501.69	504.70	502.76	517.00
499.61	478.04	500.68	532.63	501.73	449.60	502.77	504.92
499.62	490.76	500.69	479.74	501.74	460.92	502.79	477.51
499.68	463.85	500.70	504.36	501.75	507.57	502.81	467.84
499.71	471.32	500.71	535.86	501.76	485.99	502.88	492.83
499.73	484.15	500.72	491.09	501.77	509.46	502.89	459.85
499.75	478.40	500.75	467.16	501.80	506.39	502.90	482.84
499.76	493.72	500.78	482.36	501.81	461.62	502.91	500.17
499.78	441.54	500.80	455.35	501.83	468.74	502.93	510.15
499.80	539.19	500.81	450.72	501.84	507.75	502.95	515.19
499.81	487.28	500.85	487.86	501.86	532.99	502.96	439.21

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
502.98	483.30	503.95	458.82	504.97	477.88	506.01	475.62
503.00	427.39	503.98	495.38	504.99	549.37	506.02	501.93
503.01	498.67	504.00	521.24	505.03	473.33	506.03	495.16
503.03	417.48	504.04	509.70	505.04	516.81	506.04	486.84
503.04	476.10	504.05	506.22	505.06	492.22	506.05	479.23
503.05	445.26	504.06	518.87	505.07	-100.00	506.06	539.86
503.06	467.42	504.07	501.89	505.10	539.88	506.07	464.97
503.09	458.74	504.10	469.93	505.11	451.24	506.08	467.81
503.10	471.24	504.11	497.59	505.14	495.84	506.10	553.20
503.12	494.22	504.12	539.29	505.18	455.15	506.11	493.34
503.14	489.79	504.13	521.59	505.19	544.10	506.13	478.88
503.17	493.15	504.14	486.12	505.20	444.66	506.14	438.56
503.18	528.58	504.15	497.38	505.25	480.43	506.16	570.68
503.20	537.33	504.16	434.13	505.26	505.10	506.17	441.60
503.22	513.30	504.17	436.82	505.27	510.37	506.20	458.16
503.24	487.90	504.19	437.80	505.29	492.35	506.21	416.09
503.25	450.96	504.20	525.72	505.32	467.79	506.22	499.25
503.27	526.77	504.21	380.10	505.34	419.81	506.23	469.19
503.28	433.55	504.23	430.76	505.37	490.32	506.25	465.00
503.30	498.31	504.24	493.71	505.38	495.13	506.28	492.19
503.31	409.83	504.25	513.27	505.39	544.85	506.31	479.38
503.32	445.08	504.26	554.62	505.40	503.68	506.33	479.37
503.33	471.62	504.29	508.41	505.41	543.97	506.34	512.72
503.37	438.67	504.32	526.82	505.42	491.36	506.35	495.69
503.38	480.89	504.33	496.39	505.48	502.18	506.36	489.17
503.41	458.71	504.34	431.57	505.50	519.93	506.37	501.21
503.42	476.96	504.35	477.60	505.51	493.92	506.39	500.92
503.44	573.66	504.36	555.23	505.52	475.71	506.41	534.78
503.45	517.18	504.39	491.93	505.53	475.98	506.42	510.68
503.46	455.77	504.40	578.81	505.54	541.45	506.43	446.13
503.47	436.00	504.41	487.57	505.55	507.45	506.44	472.40
503.48	442.75	504.43	517.28	505.56	467.65	506.45	485.50
503.49	520.77	504.45	512.63	505.58	437.89	506.46	467.31
503.51	595.42	504.46	485.71	505.59	393.35	506.47	532.39
503.52	460.69	504.47	434.06	505.61	499.26	506.48	490.22
503.53	474.98	504.48	489.27	505.62	505.84	506.49	531.56
503.54	526.92	504.49	445.15	505.63	453.25	506.50	509.54
503.57	441.08	504.50	473.30	505.65	473.77	506.51	462.11
503.61	510.73	504.51	519.33	505.66	510.65	506.52	509.95
503.63	483.06	504.52	430.76	505.67	492.64	506.53	487.26
503.64	518.41	504.54	528.21	505.68	426.94	506.55	452.51
503.66	532.43	504.56	477.75	505.70	540.12	506.57	514.04
503.67	498.58	504.58	498.64	505.71	431.77	506.58	537.83
503.70	516.48	504.62	492.10	505.72	434.22	506.59	445.47
503.71	446.59	504.63	534.60	505.73	495.04	506.61	444.91
503.72	504.03	504.64	457.00	505.74	512.11	506.63	511.29
503.75	519.95	504.66	498.44	505.76	513.13	506.64	429.89
503.77	558.90	504.67	530.20	505.78	433.83	506.66	467.57
503.79	503.90	504.68	468.13	505.80	492.77	506.67	518.86
503.80	448.42	504.70	491.91	505.82	495.71	506.68	472.99
503.81	437.05	504.71	408.36	505.85	478.80	506.70	465.16
503.82	436.12	504.76	498.15	505.86	500.36	506.71	468.12
503.83	464.82	504.83	514.94	505.87	534.08	506.73	513.25
503.84	503.74	504.84	499.55	505.88	429.82	506.74	454.83
503.85	442.11	504.88	410.74	505.89	481.09	506.75	525.27
503.87	567.24	504.89	511.04	505.92	468.96	506.77	488.85
503.88	478.19	504.91	526.24	505.97	456.34	506.78	505.37
503.89	514.03	504.94	481.30	505.98	443.64	506.80	484.22
503.92	448.11	504.95	520.73	505.99	508.27	506.81	454.79
503.93	528.73	504.96	492.65	506.00	497.98	506.83	558.17



PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
506.85	506.79	507.94	539.26	508.98	508.36	509.96	483.54
506.86	475.58	507.97	478.93	508.99	543.19	509.97	504.35
506.87	470.08	508.00	479.96	509.02	434.53	509.98	466.95
506.90	541.02	508.01	474.56	509.03	455.28	510.02	505.51
506.92	432.18	508.02	530.41	509.04	464.88	510.03	467.90
506.93	455.33	508.03	485.73	509.05	508.79	510.05	470.48
506.94	504.77	508.07	538.89	509.06	482.28	510.06	492.71
506.95	489.39	508.08	457.45	509.08	554.62	510.08	440.03
506.98	506.07	508.09	480.20	509.09	487.55	510.09	497.42
506.99	488.78	508.10	532.67	509.13	475.97	510.12	451.87
507.02	477.34	508.12	517.42	509.15	500.60	510.13	453.73
507.04	485.85	508.13	478.82	509.18	535.64	510.14	513.55
507.05	533.22	508.14	463.00	509.22	524.96	510.15	523.35
507.07	488.12	508.15	442.04	509.26	517.31	510.17	477.47
507.11	492.02	508.17	483.24	509.29	548.65	510.18	496.88
507.12	483.81	508.19	453.37	509.30	511.42	510.20	506.79
507.13	504.81	508.20	494.73	509.35	471.17	510.21	428.66
507.14	528.37	508.21	501.53	509.36	489.19	510.23	527.77
507.15	418.28	508.22	531.06	509.37	462.52	510.25	504.94
507.18	487.77	508.23	475.50	509.38	449.37	510.29	472.84
507.19	470.86	508.25	557.29	509.39	524.43	510.31	473.08
507.21	446.50	508.26	497.82	509.40	501.42	510.34	428.63
507.22	446.67	508.27	521.75	509.41	502.47	510.35	481.71
507.23	522.46	508.28	484.55	509.42	441.52	510.36	466.33
507.25	462.03	508.31	497.85	509.44	461.54	510.38	486.25
507.26	486.32	508.34	513.41	509.47	436.88	510.39	487.49
507.27	532.54	508.35	498.49	509.48	502.30	510.40	466.37
507.29	546.55	508.36	505.38	509.49	508.86	510.42	491.57
507.31	490.66	508.37	474.85	509.51	500.40	510.43	521.95
507.34	479.16	508.38	524.73	509.52	474.62	510.45	473.89
507.35	504.10	508.44	518.54	509.54	437.35	510.48	523.76
507.36	444.90	508.45	471.46	509.58	534.00	510.49	528.72
507.39	475.41	508.46	510.73	509.59	511.34	510.50	493.79
507.40	474.26	508.47	453.68	509.61	454.17	510.51	512.01
507.42	424.12	508.51	504.61	509.62	494.60	510.52	534.78
507.44	505.25	508.52	449.76	509.64	491.18	510.53	554.77
507.45	393.53	508.56	519.72	509.65	499.50	510.54	515.33
507.49	481.18	508.57	513.44	509.66	525.97	510.55	518.42
507.51	508.34	508.58	445.67	509.67	480.47	510.57	498.12
507.54	463.00	508.60	548.58	509.68	483.33	510.58	441.64
507.55	465.16	508.63	524.30	509.69	483.60	510.60	478.61
507.56	493.10	508.65	485.11	509.71	501.82	510.61	506.82
507.57	454.08	508.66	478.24	509.72	497.44	510.63	431.41
507.58	488.69	508.69	438.06	509.74	493.42	510.64	527.08
507.61	518.06	508.73	474.93	509.75	494.09	510.65	515.67
507.62	491.41	508.74	466.22	509.76	500.30	510.67	470.19
507.65	438.16	508.75	516.12	509.77	494.50	510.68	508.39
507.66	542.10	508.77	514.03	509.79	470.58	510.71	482.40
507.67	472.99	508.78	482.88	509.80	579.30	510.76	518.58
507.69	468.86	508.79	429.59	509.81	502.84	510.77	467.14
507.71	489.91	508.80	454.96	509.83	507.72	510.81	452.57
507.72	464.75	508.81	495.25	509.84	530.46	510.83	489.67
507.77	461.85	508.82	489.61	509.85	552.90	510.87	493.69
507.80	445.87	508.84	517.31	509.86	499.99	510.90	543.55
507.82	481.99	508.85	530.49	509.88	495.42	510.92	454.16
507.83	481.88	508.89	534.12	509.89	490.83	510.95	474.06
507.85	492.40	508.91	501.44	509.91	459.79	510.96	499.81
507.87	475.87	508.92	526.25	509.93	461.56	510.97	485.64
507.91	495.96	508.93	430.76	509.94	484.11	510.98	477.36
507.92	445.40	508.94	479.17	509.95	535.61	510.99	467.57

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
511.00	556.80	512.05	528.38	513.14	481.05	514.30	490.77
511.01	419.54	512.06	483.58	513.17	480.98	514.34	519.42
511.03	532.89	512.08	493.88	513.18	526.33	514.35	504.86
511.05	475.76	512.09	471.08	513.19	459.60	514.37	470.75
511.08	493.02	512.10	465.44	513.21	526.00	514.39	525.46
511.11	517.21	512.12	440.30	513.22	483.52	514.40	491.69
511.13	474.55	512.15	475.11	513.28	454.69	514.41	517.93
511.15	492.34	512.16	502.71	513.29	491.29	514.42	494.36
511.17	523.81	512.18	538.20	513.31	434.13	514.43	455.50
511.18	459.47	512.19	478.47	513.37	505.58	514.44	473.27
511.20	504.44	512.20	519.91	513.42	458.45	514.45	506.80
511.21	542.12	512.21	505.29	513.43	494.74	514.46	482.03
511.22	566.98	512.22	516.32	513.44	519.71	514.48	570.81
511.23	514.79	512.24	554.72	513.48	517.98	514.49	527.46
511.25	469.55	512.30	531.90	513.53	487.34	514.50	463.28
511.27	455.57	512.32	447.22	513.55	507.57	514.51	507.39
511.29	537.21	512.33	499.69	513.61	537.82	514.52	509.14
511.31	499.67	512.36	486.56	513.62	522.53	514.55	477.80
511.32	460.32	512.37	515.05	513.63	508.69	514.56	469.92
511.33	583.18	512.40	514.06	513.64	516.58	514.59	498.96
511.34	482.39	512.41	446.96	513.65	530.67	514.60	572.62
511.36	453.70	512.43	527.05	513.66	590.98	514.62	458.31
511.37	517.65	512.44	443.85	513.68	512.83	514.64	489.52
511.38	499.69	512.48	506.71	513.70	502.43	514.65	525.68
511.39	457.72	512.50	485.31	513.71	517.85	514.66	556.15
511.40	494.03	512.52	468.48	513.72	450.42	514.67	584.99
511.41	518.90	512.53	482.93	513.74	446.92	514.70	492.98
511.43	519.63	512.54	389.26	513.75	531.68	514.73	483.84
511.47	539.63	512.56	519.00	513.76	499.49	514.74	531.94
511.49	450.95	512.58	547.05	513.77	474.61	514.76	474.32
511.50	479.78	512.59	484.60	513.78	525.01	514.77	473.95
511.52	395.88	512.62	479.24	513.79	548.28	514.78	540.89
511.58	501.50	512.64	474.97	513.81	451.81	514.79	489.55
511.60	560.38	512.66	589.29	513.85	440.08	514.80	475.65
511.61	478.22	512.67	493.97	513.86	477.38	514.83	518.96
511.62	532.97	512.68	498.11	513.87	529.57	514.84	496.70
511.63	557.69	512.69	483.84	513.88	467.97	514.85	506.45
511.65	504.15	512.70	512.93	513.89	470.35	514.87	476.94
511.66	488.03	512.71	509.03	513.90	496.25	514.88	500.51
511.67	480.01	512.74	481.31	513.92	458.35	514.89	510.86
511.69	474.27	512.75	464.17	513.94	446.38	514.90	538.34
511.71	521.25	512.76	448.81	513.96	451.76	514.92	516.52
511.72	495.20	512.77	484.14	513.97	486.28	514.93	534.67
511.75	490.58	512.78	509.00	514.00	455.98	514.94	531.36
511.76	491.31	512.81	407.80	514.01	507.59	514.95	428.56
511.78	492.20	512.84	439.87	514.03	527.17	514.96	489.74
511.81	510.26	512.85	472.36	514.04	525.66	514.97	498.05
511.83	499.94	512.88	542.38	514.05	478.85	514.98	536.09
511.85	496.08	512.90	490.46	514.10	480.08	514.99	523.66
511.86	508.07	512.92	503.28	514.12	525.40	515.00	499.64
511.87	482.00	512.94	484.90	514.13	492.04	515.02	510.81
511.88	537.98	512.95	450.99	514.14	490.65	515.04	485.76
511.91	512.92	512.96	525.96	514.15	461.95	515.05	471.17
511.93	415.27	512.97	504.98	514.18	460.35	515.07	541.47
511.94	410.71	513.01	513.23	514.19	560.42	515.08	461.79
511.96	452.45	513.02	504.35	514.20	479.79	515.10	508.71
511.97	514.87	513.03	497.67	514.23	462.91	515.12	418.34
512.00	470.95	513.07	511.34	514.26	471.27	515.13	498.94
512.02	468.41	513.08	560.60	514.28	453.71	515.18	453.60
512.03	512.73	513.10	515.51	514.29	504.04	515.20	493.87

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
515.22	490.91	516.29	498.63	517.46	536.74	518.56	568.34
515.23	536.39	516.30	488.94	517.49	514.40	518.57	473.93
515.24	461.10	516.33	493.63	517.51	524.60	518.59	500.89
515.25	632.08	516.35	542.97	517.52	572.91	518.61	566.94
515.26	550.40	516.36	495.84	517.53	527.47	518.62	456.94
515.27	447.13	516.40	470.85	517.55	549.01	518.63	487.36
515.28	499.97	516.41	504.16	517.59	482.31	518.64	478.93
515.29	551.42	516.43	505.09	517.60	516.56	518.65	463.52
515.33	462.47	516.44	482.46	517.63	534.08	518.66	510.74
515.36	494.58	516.45	535.08	517.64	545.31	518.67	512.23
515.39	495.64	516.47	492.87	517.68	492.57	518.68	449.10
515.40	-100.00	516.50	496.01	517.69	496.54	518.69	489.36
515.42	502.85	516.52	462.84	517.70	474.04	518.70	549.21
515.45	535.41	516.54	503.98	517.71	493.86	518.71	488.25
515.46	514.96	516.59	494.01	517.72	494.77	518.72	486.46
515.47	432.89	516.60	513.18	517.73	533.78	518.74	525.55
515.48	521.82	516.63	459.04	517.75	488.50	518.75	504.29
515.49	492.66	516.68	568.16	517.78	464.64	518.76	438.57
515.51	552.51	516.72	489.56	517.79	523.86	518.79	507.69
515.52	466.96	516.74	488.11	517.82	524.16	518.80	472.94
515.55	542.51	516.76	551.81	517.83	525.88	518.83	532.24
515.56	467.46	516.77	488.87	517.84	455.63	518.84	421.80
515.57	443.03	516.78	501.15	517.85	507.24	518.85	514.90
515.58	546.84	516.80	534.80	517.86	470.91	518.86	510.91
515.59	500.67	516.81	498.30	517.88	518.18	518.87	454.06
515.60	478.66	516.83	517.09	517.89	500.06	518.89	568.89
515.66	469.94	516.85	443.67	517.91	451.66	518.90	506.00
515.67	510.60	516.87	478.12	517.95	463.09	518.93	476.57
515.69	220.19	516.90	491.03	517.97	510.69	518.94	474.14
515.73	474.78	516.91	524.03	517.98	557.13	518.99	407.53
515.75	536.87	516.92	508.04	517.99	564.16	519.00	482.87
515.81	561.16	516.95	482.93	518.00	501.32	519.01	477.13
515.82	514.05	516.97	455.14	518.01	481.80	519.02	549.28
515.85	507.85	517.02	468.65	518.02	547.67	519.04	490.76
515.86	454.85	517.03	530.94	518.03	503.84	519.05	564.04
515.87	479.05	517.04	513.01	518.04	589.40	519.08	528.07
515.89	506.31	517.05	514.78	518.08	531.72	519.09	476.76
515.90	506.52	517.06	548.34	518.09	493.94	519.10	451.74
515.91	538.25	517.07	514.00	518.10	455.55	519.12	519.83
515.94	570.30	517.08	509.35	518.12	540.71	519.13	489.68
515.97	533.94	517.10	511.14	518.19	492.26	519.14	558.16
515.98	476.51	517.11	521.69	518.20	464.89	519.15	514.12
515.99	455.51	517.15	550.13	518.23	525.86	519.16	490.85
516.02	451.84	517.16	515.41	518.24	488.02	519.18	498.96
516.04	469.06	517.17	476.16	518.25	426.17	519.21	471.08
516.05	453.46	517.18	511.89	518.28	446.66	519.22	504.97
516.06	528.84	517.20	483.34	518.29	519.00	519.23	546.38
516.07	532.26	517.21	511.16	518.30	465.83	519.24	467.00
516.08	516.62	517.24	455.19	518.32	580.20	519.29	518.35
516.12	501.63	517.25	519.26	518.35	481.38	519.30	506.61
516.13	477.76	517.26	520.54	518.37	455.28	519.34	478.16
516.15	570.11	517.28	497.03	518.39	534.13	519.35	534.53
516.17	484.50	517.29	511.58	518.40	521.90	519.36	565.99
516.18	493.25	517.31	520.67	518.41	487.96	519.38	503.76
516.20	472.75	517.33	483.25	518.43	533.61	519.39	514.22
516.23	489.77	517.34	501.62	518.44	548.64	519.43	499.83
516.25	490.50	517.40	478.44	518.49	497.40	519.44	457.19
516.26	516.93	517.43	478.71	518.50	530.18	519.46	446.49
516.27	435.21	517.44	478.16	518.53	507.44	519.47	524.82
516.28	466.73	517.45	479.76	518.55	558.69	519.50	469.41

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
519.52	521.33	520.51	503.49	521.57	477.00	522.64	509.03
519.55	532.24	520.52	505.23	521.58	463.51	522.66	467.32
519.56	520.84	520.53	481.80	521.59	460.41	522.67	548.86
519.57	484.63	520.54	484.38	521.60	542.30	522.68	566.69
519.61	555.32	520.55	466.97	521.62	512.45	522.69	471.57
519.65	471.93	520.56	487.06	521.65	480.31	522.70	517.54
519.68	562.30	520.57	487.43	521.68	468.92	522.71	462.62
519.69	545.39	520.65	517.76	521.70	530.06	522.74	508.64
519.71	543.74	520.68	516.93	521.71	503.63	522.75	450.04
519.72	483.27	520.69	523.19	521.79	490.01	522.76	500.63
519.73	525.80	520.70	520.80	521.81	455.37	522.79	489.51
519.74	500.63	520.71	466.29	521.82	531.53	522.80	525.67
519.76	517.68	520.74	451.23	521.83	544.02	522.85	492.14
519.79	478.91	520.75	508.43	521.84	479.72	522.88	530.94
519.80	487.04	520.76	504.20	521.88	570.24	522.89	511.34
519.81	454.15	520.77	516.92	521.89	475.00	522.90	561.68
519.86	506.08	520.83	501.44	521.90	582.00	522.91	518.86
519.87	475.26	520.84	510.27	521.91	488.95	522.92	548.25
519.89	483.74	520.87	497.67	521.93	466.70	522.93	497.21
519.90	523.38	520.89	502.25	521.95	527.69	522.96	507.23
519.91	477.58	520.90	517.75	521.99	454.43	522.98	523.90
519.92	471.14	520.91	507.72	522.02	514.54	523.02	510.94
519.93	537.50	520.94	475.59	522.03	573.01	523.05	505.03
519.94	526.76	520.96	490.62	522.04	455.68	523.06	463.82
519.98	525.25	520.97	547.70	522.05	486.23	523.08	568.20
520.01	439.06	521.00	508.63	522.06	495.44	523.09	569.29
520.02	473.01	521.02	553.74	522.09	507.65	523.11	485.48
520.04	522.63	521.03	514.40	522.10	517.82	523.12	563.31
520.05	495.94	521.04	486.50	522.11	463.67	523.14	546.24
520.06	509.81	521.06	523.11	522.13	561.17	523.15	474.09
520.07	565.46	521.07	537.90	522.14	467.88	523.17	496.49
520.09	501.62	521.08	506.10	522.15	478.67	523.19	497.94
520.10	531.96	521.11	479.00	522.17	513.33	523.21	484.57
520.11	447.30	521.12	602.41	522.18	511.13	523.22	541.42
520.12	501.62	521.13	455.33	522.20	488.01	523.23	472.52
520.13	491.75	521.15	509.37	522.21	485.72	523.24	524.92
520.15	458.92	521.16	456.73	522.26	510.54	523.25	470.72
520.19	488.32	521.17	507.50	522.30	519.81	523.26	475.85
520.20	495.22	521.18	535.83	522.31	486.99	523.27	499.92
520.21	483.87	521.20	492.40	522.33	485.54	523.28	480.25
520.22	520.70	521.22	500.07	522.34	457.35	523.29	522.44
520.23	507.57	521.26	519.50	522.37	537.75	523.33	513.49
520.24	506.48	521.27	544.02	522.38	519.82	523.34	520.22
520.25	515.06	521.28	435.39	522.39	538.21	523.37	502.46
520.29	539.42	521.31	525.17	522.41	509.54	523.43	569.95
520.30	453.10	521.32	511.62	522.43	526.42	523.44	507.37
520.31	486.96	521.34	514.34	522.44	491.79	523.46	460.78
520.32	513.74	521.37	448.21	522.47	504.37	523.48	557.68
520.34	511.27	521.38	480.24	522.48	518.06	523.52	484.69
520.35	456.96	521.39	485.31	522.49	472.87	523.53	590.68
520.36	456.17	521.40	509.67	522.50	499.87	523.54	516.92
520.37	530.28	521.41	558.01	522.51	511.97	523.56	559.71
520.38	541.03	521.42	519.88	522.53	559.33	523.57	562.72
520.40	505.99	521.45	499.27	522.54	530.96	523.60	513.20
520.41	542.71	521.46	535.50	522.55	515.34	523.62	492.11
520.42	486.53	521.48	522.67	522.56	541.44	523.63	498.35
520.44	486.50	521.49	479.24	522.57	456.89	523.66	468.34
520.45	562.13	521.52	479.45	522.58	495.51	523.67	496.81
520.47	520.39	521.53	459.54	522.62	497.11	523.74	453.20
520.49	471.83	521.55	486.66	522.63	519.40	523.75	533.05

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
523.76	533.69	524.81	514.43	525.79	600.77	526.85	487.89
523.78	569.56	524.84	479.55	525.80	499.26	526.87	517.94
523.80	478.20	524.85	490.54	525.81	513.16	526.88	478.73
523.81	528.38	524.87	536.77	525.82	459.51	526.90	499.15
523.82	520.30	524.88	542.39	525.85	534.22	526.95	508.40
523.85	510.40	524.92	487.49	525.86	507.22	526.96	489.61
523.87	579.93	524.93	547.16	525.87	489.72	526.97	504.06
523.89	526.73	524.94	537.20	525.88	578.03	526.99	507.42
523.91	496.71	524.95	484.20	525.92	519.00	527.01	564.25
523.92	520.38	524.98	548.78	525.94	514.78	527.02	497.12
523.96	452.70	524.99	514.06	525.96	542.84	527.03	500.04
523.97	484.79	525.01	502.49	525.97	551.34	527.04	515.75
523.98	496.49	525.03	549.98	525.98	520.65	527.05	566.51
523.99	456.59	525.05	525.56	525.99	465.08	527.06	452.63
524.00	557.16	525.07	536.20	526.01	520.28	527.08	565.98
524.01	453.96	525.08	552.18	526.02	485.11	527.11	531.78
524.04	427.85	525.09	537.61	526.03	532.63	527.14	567.75
524.06	428.98	525.10	550.24	526.06	491.25	527.15	504.25
524.07	489.22	525.11	461.00	526.14	514.91	527.16	489.88
524.08	467.42	525.17	466.93	526.15	497.78	527.17	516.35
524.09	512.14	525.18	447.27	526.16	500.88	527.20	532.02
524.10	479.47	525.19	527.02	526.17	-100.00	527.21	507.64
524.12	470.45	525.20	456.92	526.18	505.42	527.22	479.99
524.13	546.81	525.21	498.55	526.19	522.38	527.25	497.76
524.16	519.32	525.22	561.16	526.21	495.32	527.28	503.25
524.17	474.56	525.23	486.90	526.23	474.75	527.29	544.26
524.18	529.70	525.26	529.27	526.24	480.36	527.30	514.48
524.19	513.73	525.30	473.68	526.25	486.00	527.36	495.34
524.22	494.47	525.31	559.08	526.26	497.94	527.38	511.78
524.25	478.22	525.33	508.72	526.27	570.14	527.39	493.50
524.27	560.32	525.34	494.11	526.29	602.15	527.43	484.61
524.28	496.36	525.35	483.57	526.32	444.76	527.53	488.23
524.30	501.01	525.36	450.01	526.34	518.64	527.54	577.10
524.31	528.79	525.37	546.01	526.37	489.15	527.56	538.87
524.32	541.11	525.38	465.39	526.38	557.96	527.57	516.42
524.34	490.10	525.40	575.01	526.40	486.95	527.59	497.75
524.35	472.15	525.41	548.92	526.42	514.50	527.62	494.26
524.37	469.70	525.43	492.36	526.45	506.06	527.63	479.82
524.38	463.62	525.46	525.06	526.48	477.39	527.65	519.68
524.40	448.30	525.47	504.17	526.49	516.89	527.66	546.06
524.44	483.54	525.48	497.18	526.50	464.82	527.67	527.15
524.45	551.19	525.49	472.05	526.52	527.98	527.71	494.80
524.50	457.21	525.51	543.38	526.53	499.48	527.74	469.83
524.51	485.91	525.52	430.36	526.55	504.64	527.76	515.69
524.52	474.96	525.54	469.96	526.58	456.09	527.77	531.01
524.54	493.41	525.56	548.82	526.59	549.37	527.82	494.56
524.55	536.04	525.57	520.01	526.60	554.02	527.83	528.60
524.57	532.55	525.58	476.80	526.62	486.23	527.84	516.05
524.58	524.16	525.60	513.79	526.63	553.39	527.85	554.45
524.62	487.32	525.61	599.54	526.64	470.56	527.86	520.35
524.63	513.99	525.63	505.07	526.65	454.17	527.88	571.81
524.65	499.75	525.65	497.76	526.68	505.06	527.89	550.09
524.66	596.40	525.66	479.75	526.72	504.68	527.93	510.37
524.69	484.94	525.67	453.85	526.73	510.30	527.96	522.03
524.70	529.57	525.70	549.27	526.74	534.51	527.98	501.54
524.71	494.93	525.71	471.54	526.77	562.57	528.00	452.24
524.72	497.39	525.72	490.58	526.78	481.71	528.02	480.87
524.73	512.12	525.75	474.19	526.79	459.30	528.03	494.59
524.79	502.32	525.76	464.91	526.82	425.25	528.05	537.57
524.80	505.45	525.77	527.58	526.84	606.39	528.06	519.56

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
528.10	493.81	529.16	463.94	530.12	516.79	531.30	521.93
528.11	526.10	529.17	505.07	530.15	492.89	531.31	522.23
528.14	470.80	529.18	531.14	530.20	536.09	531.33	541.97
528.16	466.66	529.20	490.92	530.21	438.52	531.35	529.78
528.17	496.11	529.23	491.70	530.23	566.41	531.40	480.32
528.18	462.97	529.24	523.59	530.26	511.42	531.41	506.74
528.19	459.29	529.25	536.42	530.27	500.46	531.45	527.61
528.20	497.83	529.26	536.37	530.28	431.87	531.46	523.68
528.23	487.23	529.27	470.95	530.30	477.40	531.47	483.52
528.25	518.99	529.28	507.69	530.31	514.35	531.49	555.07
528.27	499.30	529.29	502.31	530.32	471.85	531.51	549.26
528.28	479.69	529.34	523.19	530.33	449.30	531.53	480.30
528.32	527.05	529.35	490.09	530.34	519.73	531.59	510.64
528.33	547.26	529.36	529.16	530.36	591.56	531.60	488.17
528.34	443.17	529.37	557.52	530.41	497.06	531.61	489.07
528.36	505.82	529.38	494.48	530.42	528.17	531.62	493.36
528.37	473.46	529.39	494.79	530.44	499.64	531.65	507.40
528.38	516.91	529.40	554.64	530.47	532.77	531.68	552.15
528.39	513.29	529.41	560.36	530.50	509.03	531.69	430.40
528.42	557.40	529.43	569.92	530.51	459.21	531.70	563.83
528.43	484.24	529.44	520.63	530.55	538.00	531.71	512.47
528.45	472.75	529.45	576.14	530.56	541.61	531.73	494.43
528.47	514.33	529.47	492.29	530.60	529.44	531.75	481.30
528.48	496.09	529.48	551.18	530.62	501.11	531.78	548.00
528.49	499.80	529.51	458.35	530.66	568.47	531.79	538.24
528.50	503.00	529.52	487.99	530.67	555.18	531.81	471.69
528.51	495.37	529.53	492.39	530.68	537.39	531.82	471.86
528.52	466.12	529.54	545.33	530.71	590.71	531.83	518.22
528.53	555.05	529.55	535.78	530.72	452.51	531.84	496.13
528.55	486.87	529.56	510.12	530.74	530.61	531.88	484.18
528.56	487.66	529.57	511.09	530.77	532.86	531.89	547.46
528.57	470.26	529.58	560.42	530.78	503.47	531.94	469.63
528.60	507.05	529.60	469.51	530.81	478.29	531.95	588.42
528.63	508.88	529.62	536.92	530.82	539.66	531.96	493.92
528.64	490.39	529.64	481.31	530.83	540.63	531.98	519.26
528.66	550.18	529.65	528.40	530.84	506.62	531.99	491.42
528.67	563.71	529.66	507.73	530.85	506.31	532.04	492.22
528.70	435.79	529.67	508.10	530.88	507.11	532.06	510.02
528.71	540.14	529.68	482.76	530.89	535.77	532.07	556.10
528.73	579.91	529.71	516.54	530.90	489.95	532.08	498.58
528.75	500.38	529.74	502.17	530.93	531.41	532.09	500.99
528.77	487.34	529.76	497.52	530.96	457.65	532.10	526.01
528.78	520.85	529.77	519.95	530.97	526.02	532.12	509.84
528.79	527.11	529.78	501.55	530.99	529.25	532.13	517.29
528.80	534.32	529.80	527.78	531.00	514.89	532.15	578.11
528.81	501.24	529.82	481.53	531.01	529.13	532.16	507.55
528.82	486.53	529.86	495.18	531.02	514.73	532.19	463.96
528.83	515.57	529.89	491.05	531.05	531.76	532.20	501.17
528.84	528.42	529.90	517.49	531.08	547.88	532.21	495.85
528.86	489.56	529.91	498.42	531.09	513.68	532.22	528.01
528.88	543.44	529.95	493.64	531.11	495.37	532.23	437.81
528.92	511.01	529.97	501.37	531.12	493.42	532.24	491.63
528.96	517.01	529.99	524.59	531.14	578.43	532.25	530.96
528.97	497.12	530.00	492.16	531.16	496.01	532.28	557.09
528.99	502.56	530.01	512.22	531.18	505.82	532.30	567.45
529.00	495.10	530.02	540.41	531.19	529.05	532.31	586.01
529.04	554.09	530.03	490.13	531.21	555.61	532.33	527.74
529.05	504.84	530.04	514.95	531.24	568.42	532.35	545.63
529.09	492.60	530.07	505.26	531.25	558.58	532.44	527.01
529.10	524.26	530.09	473.50	531.27	489.35	532.46	510.98

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
532.48	534.29	533.43	550.94	534.44	509.97	535.34	520.09
532.49	535.42	533.44	548.83	534.45	546.51	535.36	549.82
532.50	532.89	533.46	549.48	534.46	477.86	535.38	558.71
532.52	558.03	533.47	524.64	534.47	510.47	535.39	460.50
532.53	515.28	533.50	511.72	534.48	478.98	535.40	482.64
532.54	529.74	533.52	527.35	534.49	531.22	535.41	585.80
532.55	527.20	533.55	485.37	534.51	536.59	535.42	471.46
532.56	549.10	533.56	516.79	534.52	486.50	535.46	504.99
532.59	571.15	533.57	431.36	534.53	521.32	535.49	510.27
532.60	480.66	533.58	506.53	534.54	547.33	535.50	462.66
532.61	539.01	533.59	555.97	534.56	507.12	535.51	521.81
532.62	614.72	533.60	502.29	534.57	527.70	535.52	463.55
532.64	563.46	533.62	498.24	534.58	491.42	535.55	426.24
532.65	522.30	533.63	518.82	534.60	570.89	535.56	520.37
532.66	548.30	533.64	544.96	534.61	483.33	535.57	471.56
532.67	556.23	533.66	504.79	534.62	540.25	535.58	554.67
532.70	505.85	533.67	551.17	534.63	482.09	535.59	524.89
532.71	534.14	533.70	474.33	534.65	570.34	535.61	483.48
532.74	429.55	533.71	536.23	534.67	513.13	535.64	558.50
532.76	565.80	533.72	475.14	534.68	513.64	535.65	515.63
532.80	511.31	533.73	502.10	534.69	502.01	535.66	563.81
532.81	557.00	533.74	567.88	534.70	513.33	535.67	527.69
532.85	495.10	533.76	493.62	534.72	542.31	535.68	485.01
532.86	523.47	533.77	574.41	534.73	-100.00	535.69	471.39
532.87	576.10	533.80	501.85	534.75	622.24	535.70	524.61
532.89	577.56	533.83	519.87	534.78	510.07	535.71	518.92
532.94	538.02	533.84	457.39	534.81	492.95	535.72	494.79
532.96	544.94	533.85	487.14	534.82	522.11	535.75	477.10
532.97	493.78	533.86	445.31	534.83	528.59	535.76	496.42
532.98	507.49	533.88	567.80	534.84	549.85	535.82	535.42
533.00	469.60	533.89	461.45	534.85	452.87	535.83	512.79
533.01	463.12	533.91	535.19	534.87	556.50	535.87	557.22
533.02	599.77	533.92	482.17	534.89	525.59	535.88	517.49
533.06	508.71	533.93	499.59	534.90	558.40	535.89	500.59
533.07	523.69	533.94	478.28	534.91	514.53	535.93	533.04
533.08	500.77	533.95	516.00	534.93	471.68	535.95	492.72
533.11	490.14	533.99	574.68	534.95	526.66	535.97	564.96
533.12	542.27	534.00	504.75	534.96	510.93	535.98	573.66
533.15	540.23	534.02	502.34	535.02	483.25	536.03	582.50
533.16	510.36	534.06	506.21	535.03	458.67	536.04	496.84
533.17	524.73	534.07	506.98	535.04	462.57	536.05	555.82
533.18	484.81	534.09	502.70	535.06	506.14	536.06	557.18
533.20	510.44	534.12	514.19	535.07	448.65	536.09	520.09
533.21	480.50	534.21	469.51	535.08	531.46	536.10	511.55
533.22	482.91	534.22	522.41	535.09	556.00	536.11	492.02
533.23	512.96	534.23	543.33	535.10	480.96	536.12	487.47
533.24	543.06	534.24	464.23	535.12	491.51	536.13	561.72
533.26	512.63	534.25	522.41	535.16	522.49	536.16	474.31
533.27	496.69	534.26	511.28	535.17	474.90	536.23	503.29
533.28	512.65	534.27	449.48	535.19	635.76	536.24	500.58
533.29	553.32	534.29	399.57	535.20	525.14	536.27	514.19
533.30	511.07	534.30	516.88	535.21	488.98	536.31	542.42
533.31	481.40	534.31	521.09	535.23	488.88	536.32	546.77
533.32	515.53	534.36	461.68	535.24	509.81	536.33	536.97
533.33	548.77	534.38	488.60	535.25	513.26	536.36	472.90
533.34	490.48	534.39	554.57	535.27	534.82	536.38	456.77
533.35	533.82	534.40	519.52	535.29	535.77	536.39	495.79
533.36	560.76	534.41	485.46	535.30	521.31	536.41	541.41
533.40	470.53	534.42	438.60	535.32	476.03	536.42	480.25
533.42	544.15	534.43	484.80	535.33	542.19	536.46	523.18

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
536.48	554.28	537.71	522.18	538.72	514.07	539.60	511.47
536.51	545.32	537.73	486.72	538.73	569.47	539.61	561.58
536.52	480.38	537.79	486.31	538.74	478.35	539.66	453.17
536.53	483.46	537.80	525.47	538.75	452.08	539.70	505.10
536.54	545.42	537.82	525.01	538.76	594.15	539.71	565.14
536.57	552.04	537.83	531.48	538.79	540.24	539.72	520.16
536.58	521.87	537.84	529.82	538.80	514.95	539.74	519.52
536.62	509.85	537.86	495.53	538.82	489.82	539.75	564.52
536.63	538.77	537.89	494.48	538.83	537.84	539.77	460.17
536.64	543.15	537.90	454.42	538.85	529.77	539.78	557.75
536.66	496.08	537.91	423.62	538.87	572.59	539.80	513.07
536.67	469.51	537.92	566.87	538.88	473.61	539.83	499.97
536.69	488.25	537.94	524.81	538.89	572.31	539.87	499.15
536.73	498.74	537.95	519.61	538.90	471.56	539.88	457.71
536.76	509.82	537.96	545.12	538.91	507.80	539.92	508.20
536.77	558.50	537.97	510.81	538.94	520.82	539.93	581.91
536.78	472.53	537.98	530.73	538.95	467.80	539.95	543.32
536.84	385.04	538.00	500.96	538.96	554.36	539.96	458.68
536.86	522.51	538.01	565.30	538.97	491.33	539.97	546.18
536.87	488.56	538.02	441.36	538.98	567.56	539.98	523.20
536.89	528.85	538.03	470.84	538.99	462.25	539.99	557.69
536.90	477.38	538.04	513.64	539.00	490.76	540.00	515.28
536.92	487.36	538.05	503.20	539.02	485.36	540.03	499.73
536.93	483.15	538.07	524.58	539.03	506.64	540.04	535.43
536.95	520.13	538.08	549.39	539.05	515.39	540.06	573.74
537.01	550.51	538.10	551.56	539.06	469.42	540.07	540.15
537.02	492.73	538.11	457.55	539.07	574.07	540.08	564.97
537.03	530.83	538.12	511.45	539.10	539.86	540.11	514.65
537.04	578.06	538.13	542.59	539.13	544.62	540.12	480.39
537.07	536.05	538.15	538.33	539.14	495.84	540.13	442.76
537.09	500.70	538.19	503.84	539.18	504.79	540.14	530.66
537.10	466.65	538.21	540.63	539.19	514.09	540.15	532.01
537.12	488.66	538.23	531.62	539.21	522.74	540.16	485.43
537.13	546.04	538.25	487.40	539.22	527.45	540.20	517.16
537.15	509.38	538.26	487.32	539.23	514.25	540.21	512.75
537.18	535.85	538.28	510.38	539.25	506.37	540.23	574.57
537.21	504.14	538.29	515.78	539.26	517.05	540.24	503.98
537.22	488.22	538.33	491.08	539.27	526.58	540.25	524.63
537.26	509.39	538.35	546.95	539.29	526.83	540.26	566.27
537.27	471.12	538.38	445.31	539.30	492.85	540.27	484.97
537.29	552.24	538.39	506.40	539.31	552.89	540.28	476.99
537.31	543.14	538.41	607.41	539.32	533.71	540.30	543.07
537.33	480.54	538.42	531.75	539.33	502.70	540.31	541.64
537.38	482.99	538.43	558.06	539.34	490.05	540.33	493.30
537.39	512.91	538.44	519.39	539.35	552.74	540.34	499.38
537.42	506.12	538.46	435.31	539.38	505.93	540.36	520.00
537.43	522.55	538.47	546.21	539.39	475.84	540.37	490.10
537.44	523.74	538.48	494.39	539.40	519.95	540.38	456.11
537.48	511.09	538.49	552.45	539.41	506.22	540.39	511.36
537.51	509.71	538.51	532.00	539.42	455.55	540.40	539.03
537.52	511.33	538.52	467.60	539.43	492.94	540.41	510.83
537.53	537.38	538.53	515.29	539.44	531.17	540.42	526.26
537.55	518.35	538.57	567.42	539.45	559.53	540.43	507.12
537.56	504.21	538.58	504.42	539.46	459.94	540.46	586.47
537.57	530.12	538.59	540.43	539.49	515.99	540.48	481.30
537.60	503.05	538.60	487.52	539.50	513.48	540.49	504.82
537.61	471.89	538.65	536.90	539.55	518.62	540.50	469.62
537.63	474.45	538.66	525.46	539.56	530.44	540.51	540.65
537.66	457.31	538.70	529.71	539.57	489.85	540.56	493.81
537.67	531.05	538.71	565.41	539.59	439.25	540.58	577.88



PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
540.61	540.71	541.70	519.63	542.65	515.00	543.81	629.55
540.62	500.00	541.73	527.29	542.66	521.35	543.82	475.06
540.63	524.48	541.75	537.12	542.67	525.89	543.84	444.32
540.66	525.05	541.76	529.71	542.68	479.51	543.85	512.51
540.67	502.74	541.77	534.93	542.69	529.88	543.86	494.05
540.68	537.75	541.78	502.04	542.71	467.08	543.87	480.67
540.69	534.45	541.79	646.83	542.73	540.26	543.89	501.06
540.70	599.45	541.80	520.18	542.74	526.36	543.92	488.81
540.71	517.88	541.81	584.22	542.77	506.00	543.96	527.82
540.74	473.99	541.82	479.32	542.78	502.44	543.97	543.14
540.75	478.33	541.84	561.26	542.79	528.93	544.00	566.89
540.76	537.58	541.85	550.57	542.83	442.63	544.03	505.49
540.77	525.22	541.87	536.95	542.87	560.44	544.04	579.34
540.78	533.44	541.88	505.99	542.91	597.48	544.05	526.11
540.79	509.48	541.89	552.13	542.92	528.68	544.06	519.48
540.80	546.20	541.90	536.50	542.93	529.86	544.07	525.92
540.81	478.92	541.92	550.94	542.94	508.05	544.08	581.99
540.82	572.27	541.94	522.77	542.95	568.55	544.10	477.33
540.87	510.76	541.96	562.84	542.96	541.22	544.15	581.20
540.88	491.30	541.97	460.56	543.00	563.66	544.16	557.17
540.89	566.45	541.98	526.00	543.01	569.12	544.17	518.23
540.90	606.21	541.99	534.40	543.06	-100.00	544.18	524.78
540.95	506.37	542.00	470.68	543.08	499.26	544.19	527.13
540.96	496.07	542.02	502.27	543.09	524.38	544.23	546.79
540.98	536.49	542.03	498.39	543.10	460.14	544.24	501.23
541.03	528.35	542.05	506.05	543.12	526.91	544.26	502.94
541.04	452.21	542.08	557.51	543.15	599.43	544.31	529.45
541.05	473.58	542.09	509.04	543.16	529.81	544.32	543.13
541.07	517.35	542.11	450.57	543.18	528.44	544.36	513.24
541.09	542.21	542.12	477.40	543.19	522.87	544.38	507.36
541.11	502.28	542.13	561.10	543.20	549.12	544.44	487.19
541.13	492.92	542.15	528.09	543.23	553.99	544.45	601.11
541.15	583.26	542.17	531.03	543.24	542.32	544.46	491.18
541.16	519.93	542.18	519.96	543.25	524.22	544.47	496.27
541.19	511.74	542.21	551.50	543.27	486.25	544.51	516.41
541.20	579.55	542.22	523.49	543.29	489.23	544.52	534.49
541.21	521.92	542.25	538.11	543.30	501.37	544.60	452.33
541.23	493.54	542.26	534.85	543.31	524.04	544.62	568.89
541.25	580.98	542.29	489.98	543.32	500.94	544.63	616.67
541.26	539.31	542.30	572.57	543.33	544.53	544.64	610.71
541.29	489.02	542.32	515.32	543.34	512.48	544.65	482.09
541.30	546.31	542.33	482.50	543.36	534.62	544.66	455.44
541.31	550.04	542.36	572.43	543.43	534.11	544.67	517.71
541.32	513.25	542.37	505.85	543.44	465.22	544.68	527.97
541.35	545.02	542.38	517.52	543.48	515.47	544.71	528.58
541.40	504.03	542.40	534.40	543.52	480.66	544.73	517.58
541.42	501.02	542.41	476.57	543.53	489.85	544.74	543.10
541.44	550.33	542.42	499.65	543.54	515.37	544.75	523.21
541.45	574.18	542.43	522.17	543.56	485.75	544.77	518.39
541.47	481.37	542.44	508.92	543.60	507.89	544.79	565.33
541.49	499.35	542.47	505.19	543.62	512.71	544.80	512.90
541.50	537.52	542.50	469.68	543.63	555.93	544.81	542.75
541.54	493.26	542.51	536.42	543.64	490.14	544.82	612.98
541.57	485.91	542.52	498.59	543.66	576.20	544.83	553.17
541.59	490.15	542.55	553.09	543.68	487.55	544.84	518.29
541.62	571.42	542.56	485.26	543.69	526.10	544.85	543.12
541.64	474.34	542.58	519.36	543.71	503.02	544.87	524.62
541.65	522.68	542.59	540.07	543.73	523.67	544.88	558.37
541.66	478.00	542.61	484.46	543.75	501.56	544.91	474.04
541.68	511.10	542.63	537.78	543.77	484.89	544.93	548.50

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
544.95	480.50	546.00	528.19	547.17	580.41	548.16	500.53
544.96	494.88	546.01	488.86	547.18	539.17	548.19	521.95
544.98	519.17	546.02	566.44	547.19	470.28	548.24	595.96
545.00	472.85	546.03	570.71	547.20	473.67	548.25	516.50
545.01	510.68	546.04	513.13	547.22	535.45	548.26	331.56
545.03	519.53	546.05	515.22	547.26	583.69	548.29	579.08
545.06	524.24	546.08	550.60	547.27	523.16	548.31	524.73
545.07	520.61	546.09	556.95	547.31	547.88	548.33	544.56
545.09	540.18	546.10	478.16	547.32	555.89	548.34	529.82
545.10	520.89	546.12	530.31	547.33	493.43	548.35	543.10
545.11	547.84	546.13	555.76	547.34	539.74	548.36	552.80
545.12	532.38	546.14	493.92	547.37	513.94	548.38	521.64
545.14	525.37	546.15	478.58	547.38	507.55	548.40	499.74
545.17	474.67	546.16	538.86	547.39	515.77	548.42	554.15
545.18	460.11	546.17	594.94	547.41	555.87	548.43	478.98
545.19	481.70	546.18	528.29	547.44	482.38	548.45	551.06
545.22	492.23	546.19	476.05	547.45	477.78	548.46	543.99
545.24	488.23	546.20	531.40	547.46	504.81	548.47	513.57
545.29	528.01	546.23	508.55	547.47	487.90	548.48	554.87
545.31	514.51	546.24	539.90	547.49	536.17	548.49	519.12
545.34	490.94	546.27	555.82	547.52	549.01	548.51	527.57
545.36	534.79	546.30	516.58	547.54	501.77	548.52	532.69
545.37	522.61	546.36	530.36	547.55	437.97	548.53	523.44
545.38	559.45	546.38	579.91	547.60	559.23	548.55	542.30
545.40	374.91	546.39	529.28	547.61	510.81	548.56	588.30
545.41	524.01	546.41	502.05	547.62	492.23	548.58	527.78
545.44	510.37	546.44	452.55	547.63	550.28	548.59	549.40
545.45	557.99	546.45	522.11	547.64	510.74	548.61	552.44
545.46	553.52	546.48	552.74	547.66	516.40	548.62	590.30
545.47	531.98	546.51	533.46	547.67	530.39	548.63	469.80
545.48	527.49	546.52	517.69	547.70	536.88	548.66	538.06
545.49	576.07	546.54	486.69	547.72	512.90	548.67	485.80
545.52	563.84	546.58	496.71	547.75	504.03	548.69	532.56
545.53	554.37	546.59	523.50	547.76	511.11	548.70	540.88
545.54	517.59	546.62	571.69	547.77	498.04	548.73	536.99
545.56	490.78	546.63	584.91	547.78	527.24	548.75	584.44
545.58	497.97	546.66	555.07	547.79	576.08	548.76	545.94
545.60	502.19	546.67	515.27	547.80	576.18	548.78	498.74
545.61	516.60	546.69	513.45	547.83	524.75	548.79	505.76
545.62	513.01	546.70	562.22	547.84	555.95	548.80	566.65
545.64	471.03	546.72	584.89	547.87	522.11	548.82	484.80
545.67	534.61	546.77	478.25	547.88	533.73	548.85	514.16
545.68	528.33	546.78	522.21	547.89	527.45	548.87	460.74
545.69	518.00	546.80	524.75	547.91	563.63	548.89	513.68
545.70	567.61	546.85	553.28	547.92	505.77	548.92	586.15
545.74	537.91	546.88	510.00	547.93	563.78	548.94	491.53
545.75	529.50	546.89	548.27	547.94	501.82	548.95	458.41
545.76	492.78	546.91	526.01	547.95	535.93	548.96	535.98
545.82	524.24	546.93	513.35	547.98	518.28	548.99	522.84
545.84	450.56	546.96	476.98	548.00	424.73	549.00	567.73
545.85	560.83	546.97	470.17	548.01	516.24	549.01	546.24
545.86	557.85	546.98	468.40	548.02	562.01	549.02	549.59
545.87	518.98	546.99	538.18	548.05	541.56	549.05	559.19
545.88	547.18	547.01	534.54	548.06	525.49	549.07	536.25
545.93	460.26	547.02	513.77	548.08	552.90	549.10	541.54
545.94	477.12	547.05	562.37	548.09	539.03	549.11	547.31
545.95	531.76	547.07	470.32	548.10	568.92	549.15	496.10
545.96	479.52	547.11	583.03	548.11	526.20	549.16	524.15
545.97	530.31	547.12	464.98	548.12	516.98	549.17	535.26
545.99	567.80	547.14	547.52	548.15	484.54	549.18	516.71

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
549.19	511.36	550.16	555.49	551.29	531.01	552.52	525.68
549.21	533.46	550.17	528.32	551.31	513.71	552.55	519.71
549.22	494.73	550.20	510.38	551.33	566.70	552.56	531.37
549.23	529.40	550.21	509.20	551.35	481.80	552.59	520.20
549.24	546.72	550.22	514.68	551.37	503.94	552.60	522.29
549.25	559.93	550.25	486.13	551.38	529.25	552.62	538.43
549.27	542.72	550.27	525.76	551.40	536.76	552.66	565.95
549.28	557.25	550.28	470.30	551.42	503.21	552.70	500.65
549.33	501.18	550.34	502.07	551.47	474.33	552.71	588.37
549.34	564.97	550.36	522.02	551.53	488.14	552.72	532.60
549.36	520.57	550.37	528.47	551.54	512.23	552.75	492.32
549.39	505.33	550.39	522.47	551.56	442.38	552.77	514.20
549.42	516.59	550.45	607.57	551.58	546.19	552.78	639.70
549.43	514.42	550.47	504.61	551.59	577.19	552.79	508.95
549.44	568.87	550.48	512.11	551.63	521.65	552.81	504.82
549.45	525.35	550.49	562.39	551.65	519.48	552.82	507.80
549.46	508.37	550.50	540.93	551.66	510.71	552.84	547.72
549.47	473.78	550.52	539.49	551.68	551.29	552.86	550.75
549.48	558.20	550.53	506.81	551.71	549.43	552.87	526.43
549.49	535.18	550.54	552.33	551.72	559.15	552.89	507.44
549.50	533.38	550.55	500.60	551.74	496.54	552.90	514.13
549.53	527.79	550.56	546.92	551.75	487.77	552.92	536.34
549.54	517.41	550.57	487.17	551.76	558.86	552.94	540.26
549.55	522.68	550.58	490.00	551.77	534.79	552.95	484.92
549.56	557.66	550.61	549.90	551.78	545.48	552.96	534.25
549.57	499.86	550.63	557.31	551.79	475.79	552.98	568.75
549.58	522.07	550.65	522.12	551.81	475.37	552.99	531.76
549.59	567.83	550.66	513.37	551.86	496.15	553.00	565.92
549.61	597.07	550.67	536.17	551.87	574.10	553.07	530.10
549.63	528.40	550.68	493.33	551.88	514.85	553.08	546.15
549.64	508.59	550.70	514.53	551.89	519.15	553.11	552.96
549.65	542.70	550.71	514.70	551.91	564.34	553.12	521.10
549.69	533.56	550.74	514.72	551.94	523.24	553.15	493.99
549.70	529.49	550.76	519.64	551.97	472.25	553.20	531.81
549.71	538.49	550.77	536.21	551.98	522.61	553.21	575.83
549.72	555.57	550.78	514.17	552.01	542.17	553.22	523.77
549.73	531.31	550.81	525.38	552.06	548.54	553.24	499.69
549.77	572.02	550.82	521.63	552.07	629.14	553.25	573.82
549.78	507.52	550.86	556.42	552.09	527.84	553.26	497.98
549.79	532.51	550.87	499.89	552.10	559.49	553.27	530.07
549.80	504.34	550.92	-100.00	552.13	547.54	553.32	559.25
549.83	477.58	550.94	507.17	552.14	516.71	553.33	479.37
549.85	617.84	550.95	497.53	552.16	532.30	553.34	517.28
549.86	513.21	550.97	481.84	552.17	522.51	553.35	559.14
549.87	519.25	551.01	557.32	552.18	576.93	553.36	505.18
549.89	538.93	551.03	623.63	552.20	503.15	553.37	503.07
549.92	488.12	551.04	552.09	552.22	564.85	553.38	560.73
549.94	505.96	551.05	516.01	552.23	524.98	553.40	511.40
549.95	481.89	551.06	508.26	552.26	552.81	553.42	525.60
549.96	572.93	551.08	521.27	552.33	568.46	553.46	521.40
549.99	543.09	551.11	504.17	552.36	488.90	553.47	547.81
550.01	505.08	551.12	496.02	552.37	558.18	553.48	470.51
550.03	497.87	551.14	514.88	552.38	510.04	553.49	522.59
550.04	609.52	551.16	522.29	552.41	574.15	553.50	495.50
550.06	557.84	551.18	535.76	552.42	484.28	553.51	551.19
550.08	576.98	551.20	471.45	552.43	574.01	553.52	593.85
550.09	502.38	551.21	552.62	552.45	524.53	553.56	526.58
550.10	601.56	551.25	597.89	552.46	526.71	553.58	593.12
550.12	521.05	551.27	556.97	552.47	498.81	553.59	542.09
550.15	512.38	551.28	523.16	552.48	478.28	553.60	541.88

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
553.62	538.89	554.61	522.61	555.68	515.52	556.79	474.26
553.63	537.86	554.62	580.25	555.69	524.53	556.85	511.14
553.64	528.67	554.66	574.81	555.71	489.82	556.88	565.18
553.67	528.49	554.67	568.34	555.72	570.27	556.89	599.86
553.69	506.96	554.68	490.10	555.75	526.20	556.92	542.04
553.72	573.97	554.71	503.51	555.76	562.39	556.93	547.04
553.74	451.62	554.74	593.73	555.77	518.99	556.94	469.42
553.75	636.14	554.75	561.22	555.78	527.82	556.96	566.75
553.76	559.16	554.78	569.35	555.81	555.77	556.97	514.26
553.78	574.49	554.80	483.56	555.84	567.91	556.98	-100.00
553.81	538.37	554.82	493.02	555.85	602.28	557.00	506.43
553.83	522.74	554.83	537.13	555.90	504.29	557.04	582.48
553.84	576.13	554.85	486.50	555.93	572.81	557.06	496.40
553.85	517.84	554.86	503.26	555.96	561.44	557.08	520.83
553.86	532.83	554.87	580.96	556.00	540.19	557.09	554.59
553.87	467.23	554.88	571.69	556.01	501.60	557.10	556.14
553.89	542.35	554.89	548.34	556.02	545.07	557.14	531.57
553.90	561.33	554.90	555.18	556.04	530.07	557.16	516.39
553.91	562.42	554.92	515.58	556.05	525.40	557.18	610.67
553.94	523.23	554.95	575.78	556.06	507.15	557.19	547.45
553.96	526.22	554.96	554.17	556.07	539.40	557.20	528.58
553.97	562.52	554.98	589.47	556.09	569.49	557.21	474.20
553.98	564.00	555.00	510.33	556.12	518.30	557.22	508.53
553.99	584.11	555.03	574.95	556.13	528.14	557.23	585.57
554.00	484.54	555.05	484.27	556.19	540.77	557.26	575.06
554.02	531.24	555.06	535.49	556.20	510.53	557.27	605.40
554.04	553.59	555.08	489.41	556.21	607.10	557.28	540.94
554.09	547.61	555.09	500.46	556.23	567.97	557.29	496.60
554.10	449.03	555.11	532.61	556.25	546.08	557.30	573.55
554.12	546.10	555.12	550.72	556.26	558.82	557.32	547.68
554.13	487.99	555.17	547.48	556.27	536.95	557.33	503.37
554.14	522.04	555.18	520.03	556.28	472.42	557.34	576.25
554.15	520.24	555.23	603.56	556.30	578.73	557.35	513.35
554.16	500.00	555.24	582.65	556.31	566.97	557.36	572.80
554.17	475.08	555.26	509.31	556.33	501.99	557.37	494.49
554.19	517.43	555.27	519.90	556.34	590.12	557.38	594.12
554.20	524.28	555.29	603.30	556.36	563.67	557.39	559.76
554.21	528.53	555.30	487.73	556.38	522.93	557.41	549.79
554.22	544.48	555.32	585.66	556.40	564.47	557.42	550.13
554.23	510.21	555.33	578.97	556.41	559.54	557.43	569.47
554.28	501.36	555.34	498.09	556.42	509.50	557.45	511.88
554.29	545.08	555.35	531.67	556.43	533.46	557.46	524.21
554.32	536.15	555.36	509.75	556.44	534.47	557.47	505.81
554.33	559.81	555.37	508.07	556.45	481.75	557.49	595.11
554.34	558.23	555.39	555.41	556.46	546.70	557.50	505.59
554.36	498.34	555.40	528.74	556.48	500.06	557.51	522.00
554.38	494.98	555.41	469.19	556.49	487.25	557.52	561.66
554.39	537.09	555.45	534.26	556.50	551.43	557.53	533.70
554.40	516.16	555.46	568.35	556.53	567.34	557.57	588.99
554.41	566.91	555.49	520.76	556.54	596.11	557.59	530.25
554.43	571.30	555.50	476.38	556.57	508.70	557.62	525.53
554.44	533.35	555.51	512.94	556.59	544.07	557.64	510.71
554.45	565.07	555.53	501.88	556.60	569.04	557.65	557.53
554.46	504.70	555.55	490.65	556.61	537.89	557.66	533.95
554.47	520.28	555.58	576.14	556.66	559.71	557.67	512.97
554.50	561.25	555.59	516.34	556.67	514.52	557.68	517.07
554.53	532.88	555.61	578.32	556.68	571.15	557.72	541.32
554.54	535.97	555.65	546.20	556.71	517.08	557.73	512.29
554.55	564.21	555.66	504.95	556.72	528.52	557.74	581.26
554.58	512.92	555.67	508.93	556.75	521.43	557.76	558.53

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
557.77	493.97	558.75	553.71	559.79	541.57	560.86	542.63
557.78	520.09	558.76	522.76	559.82	546.08	560.87	577.83
557.80	528.70	558.77	526.26	559.83	555.61	560.88	529.52
557.81	514.38	558.79	555.61	559.84	611.80	560.90	582.05
557.83	504.44	558.81	478.64	559.85	529.80	560.91	609.24
557.84	536.11	558.82	495.99	559.86	548.73	560.95	522.43
557.85	524.04	558.85	506.94	559.87	532.10	560.96	585.86
557.86	590.63	558.86	598.50	559.89	513.68	560.97	586.72
557.89	528.27	558.88	519.60	559.91	510.19	561.01	542.47
557.90	553.14	558.89	543.68	559.93	495.94	561.03	541.20
557.93	565.53	558.90	535.21	559.95	542.16	561.04	551.50
557.94	543.63	558.94	538.57	559.98	530.40	561.07	491.94
557.95	504.01	558.95	548.78	559.99	526.07	561.08	538.19
557.96	553.90	558.97	472.99	560.03	531.34	561.09	536.94
557.97	492.31	558.99	512.73	560.04	469.69	561.11	526.87
557.98	580.54	559.00	511.84	560.05	522.04	561.13	587.56
557.99	518.30	559.01	489.53	560.06	551.12	561.14	581.77
558.01	482.82	559.02	485.18	560.08	512.19	561.15	556.84
558.03	553.07	559.03	557.27	560.10	576.50	561.16	565.71
558.07	545.93	559.04	-100.00	560.11	562.08	561.21	530.57
558.08	592.22	559.05	503.53	560.12	524.05	561.22	513.50
558.09	585.16	559.08	573.52	560.14	628.76	561.23	543.78
558.12	583.04	559.10	564.25	560.15	494.39	561.24	487.21
558.13	569.22	559.11	543.31	560.16	523.99	561.25	581.96
558.14	539.73	559.15	544.22	560.18	599.98	561.26	513.83
558.16	562.91	559.17	566.72	560.21	522.01	561.27	548.67
558.18	543.11	559.18	497.53	560.22	538.36	561.28	578.46
558.19	568.13	559.22	526.24	560.23	517.43	561.29	539.74
558.20	538.26	559.23	537.78	560.25	496.58	561.31	562.37
558.21	529.54	559.25	470.83	560.27	494.24	561.32	561.85
558.22	572.69	559.26	529.44	560.29	512.11	561.33	514.07
558.23	593.56	559.28	530.60	560.33	534.32	561.35	512.49
558.27	500.84	559.30	529.58	560.35	493.26	561.37	543.01
558.28	535.58	559.31	539.48	560.36	548.02	561.39	636.29
558.30	475.26	559.37	555.89	560.38	536.00	561.40	510.54
558.32	525.69	559.38	570.20	560.40	521.33	561.41	506.15
558.33	474.76	559.40	525.74	560.41	504.64	561.47	503.50
558.34	514.65	559.41	550.39	560.42	526.01	561.48	558.37
558.35	541.57	559.43	577.98	560.44	482.70	561.50	528.93
558.37	568.34	559.44	523.37	560.45	568.56	561.52	430.41
558.38	537.13	559.45	508.14	560.46	561.42	561.59	489.90
558.42	557.49	559.48	520.84	560.50	534.96	561.61	539.02
558.43	551.26	559.49	540.60	560.53	591.43	561.63	583.14
558.44	569.53	559.50	503.17	560.54	595.11	561.64	539.13
558.45	508.31	559.53	515.55	560.55	493.65	561.68	531.73
558.47	547.43	559.54	477.20	560.57	545.26	561.69	529.10
558.49	552.44	559.55	499.37	560.61	553.52	561.71	482.06
558.50	526.82	559.56	490.42	560.62	528.76	561.72	500.33
558.51	616.20	559.57	523.19	560.63	586.00	561.73	582.72
558.53	564.97	559.59	464.97	560.64	511.90	561.75	493.22
558.58	568.59	559.60	551.59	560.65	542.57	561.77	546.57
558.60	538.84	559.61	526.98	560.67	525.02	561.82	549.55
558.63	584.97	559.65	498.65	560.68	541.03	561.84	550.41
558.64	551.12	559.67	475.34	560.69	496.15	561.88	512.30
558.65	524.65	559.70	507.03	560.72	492.84	561.89	569.97
558.67	583.07	559.71	553.00	560.77	512.52	561.90	530.91
558.69	581.70	559.74	542.66	560.81	533.16	561.92	523.52
558.70	516.12	559.76	574.76	560.82	496.68	561.94	559.30
558.71	518.36	559.77	579.49	560.83	533.89	561.95	601.50
558.74	546.96	559.78	519.47	560.84	564.78	561.96	492.56

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
561.97	623.62	563.07	515.70	564.34	590.09	565.46	492.76
561.98	511.67	563.10	591.69	564.35	542.45	565.53	568.87
562.03	520.26	563.11	542.28	564.37	600.02	565.54	566.52
562.04	480.22	563.14	548.97	564.39	528.35	565.55	459.59
562.05	579.34	563.15	614.27	564.40	509.74	565.59	532.55
562.06	531.04	563.16	510.45	564.41	576.49	565.60	526.64
562.07	554.49	563.19	526.47	564.42	566.15	565.62	602.85
562.09	508.67	563.20	545.87	564.43	510.89	565.63	516.51
562.10	498.28	563.22	490.11	564.44	555.22	565.64	583.89
562.13	535.12	563.27	555.21	564.45	553.60	565.65	577.56
562.14	547.51	563.29	552.03	564.47	541.40	565.66	515.39
562.16	653.02	563.30	556.77	564.48	545.33	565.67	516.21
562.17	514.73	563.33	549.79	564.49	574.70	565.70	541.10
562.18	501.51	563.36	514.98	564.52	549.10	565.71	537.09
562.19	583.11	563.39	505.32	564.56	510.06	565.72	522.71
562.20	581.67	563.42	537.16	564.57	582.98	565.74	580.46
562.22	487.61	563.43	535.51	564.60	546.33	565.76	523.73
562.23	530.85	563.44	585.08	564.64	468.76	565.77	494.27
562.24	498.85	563.47	583.09	564.65	515.32	565.78	503.24
562.25	548.17	563.49	588.20	564.68	472.38	565.81	535.02
562.26	537.34	563.55	611.53	564.69	532.29	565.82	583.64
562.29	528.43	563.58	479.38	564.70	574.02	565.84	586.70
562.31	594.94	563.59	632.60	564.72	534.50	565.88	538.92
562.32	555.64	563.60	543.74	564.74	545.24	565.89	565.43
562.35	559.17	563.62	513.07	564.75	571.49	565.91	580.84
562.36	485.81	563.63	558.42	564.76	522.59	565.92	535.43
562.38	609.14	563.64	563.10	564.77	570.94	565.97	572.12
562.40	545.87	563.66	571.59	564.79	519.41	565.98	519.38
562.45	518.74	563.67	518.55	564.80	526.13	565.99	559.94
562.46	532.79	563.70	481.45	564.81	516.69	566.03	553.66
562.48	558.91	563.72	537.93	564.82	489.20	566.08	543.86
562.50	557.63	563.74	549.89	564.83	561.43	566.12	553.97
562.51	550.18	563.80	530.19	564.86	507.41	566.19	528.80
562.52	510.54	563.81	548.86	564.89	566.00	566.23	524.69
562.53	540.60	563.83	523.57	564.90	525.75	566.25	586.89
562.56	506.26	563.84	530.52	564.92	546.16	566.29	573.43
562.58	567.96	563.86	589.54	564.93	546.10	566.30	551.03
562.61	534.12	563.87	519.89	564.95	515.05	566.31	572.15
562.62	477.50	563.92	526.29	564.96	567.27	566.32	472.26
562.64	538.40	563.93	511.82	564.98	541.28	566.33	538.50
562.65	554.40	563.99	530.41	565.00	682.87	566.34	545.16
562.68	530.89	564.03	543.57	565.04	554.32	566.36	555.13
562.69	434.13	564.05	509.09	565.06	506.78	566.38	559.23
562.70	497.33	564.07	476.41	565.10	557.38	566.39	529.06
562.71	525.99	564.09	600.22	565.13	556.68	566.40	546.10
562.74	529.48	564.11	522.06	565.14	542.02	566.42	605.77
562.75	468.37	564.12	557.38	565.16	501.57	566.43	537.85
562.77	479.90	564.13	522.52	565.19	537.80	566.44	516.74
562.79	514.71	564.14	594.22	565.22	501.32	566.46	597.09
562.80	581.04	564.15	498.13	565.24	521.10	566.48	567.86
562.83	514.14	564.16	605.31	565.25	591.58	566.52	544.66
562.84	504.46	564.17	515.95	565.27	500.17	566.53	482.99
562.85	571.27	564.19	541.88	565.28	550.01	566.54	538.02
562.89	660.55	564.21	528.58	565.30	468.98	566.55	560.67
562.90	546.95	564.22	562.89	565.33	517.60	566.57	569.60
562.91	590.92	564.24	572.96	565.36	505.33	566.58	544.79
562.96	536.30	564.26	550.01	565.39	539.65	566.59	518.48
562.99	546.28	564.27	674.91	565.40	525.71	566.61	488.28
563.05	537.81	564.28	518.13	565.42	583.97	566.62	534.09
563.06	522.91	564.31	521.25	565.45	555.70	566.64	568.84

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
566.67	525.50	567.83	517.60	568.89	544.01	569.99	570.23
566.69	471.75	567.85	593.94	568.90	571.73	570.01	509.91
566.70	523.68	567.88	524.72	568.91	542.47	570.02	565.15
566.72	539.14	567.89	591.58	568.92	525.18	570.03	565.58
566.73	550.25	567.90	477.28	568.93	551.03	570.07	564.26
566.74	519.08	567.91	558.08	568.94	551.82	570.09	561.00
566.76	627.76	567.92	549.89	568.96	476.98	570.11	544.03
566.77	558.60	567.99	516.97	568.99	472.21	570.12	523.93
566.80	509.18	568.01	551.53	569.01	538.37	570.14	511.30
566.82	526.95	568.02	557.03	569.02	563.81	570.16	512.20
566.83	490.03	568.03	528.90	569.03	522.55	570.19	514.57
566.85	522.40	568.06	530.66	569.07	484.13	570.23	519.19
566.86	547.83	568.07	591.18	569.11	550.57	570.25	593.26
566.87	574.88	568.10	575.11	569.14	506.88	570.26	545.62
566.89	572.08	568.13	521.33	569.16	540.16	570.28	517.13
566.92	543.82	568.14	509.63	569.17	522.95	570.29	499.15
566.95	574.21	568.17	540.67	569.18	500.50	570.30	531.76
566.99	566.33	568.19	613.10	569.19	534.93	570.32	578.44
567.00	535.10	568.20	563.40	569.20	526.41	570.34	561.82
567.01	558.95	568.23	515.97	569.21	554.03	570.38	509.53
567.02	547.46	568.24	538.67	569.22	568.92	570.39	562.39
567.05	542.79	568.27	545.15	569.25	592.61	570.40	552.86
567.08	546.29	568.28	537.76	569.26	528.82	570.41	527.44
567.10	488.07	568.29	488.90	569.28	533.23	570.42	580.90
567.12	559.01	568.30	582.73	569.32	580.12	570.43	503.64
567.13	584.89	568.31	593.25	569.34	517.26	570.46	601.43
567.14	602.79	568.34	523.38	569.35	491.26	570.48	531.37
567.15	543.19	568.35	598.91	569.36	507.72	570.50	599.11
567.17	579.69	568.36	595.61	569.38	521.81	570.53	533.45
567.18	576.92	568.37	520.01	569.41	549.75	570.54	642.81
567.19	642.62	568.38	539.54	569.42	536.93	570.55	560.22
567.20	538.62	568.39	504.92	569.43	564.14	570.58	519.27
567.21	500.31	568.40	617.08	569.44	550.20	570.59	500.44
567.25	565.80	568.42	519.72	569.45	515.04	570.60	498.96
567.26	552.40	568.47	567.16	569.46	550.16	570.61	588.57
567.27	580.86	568.49	557.73	569.47	528.97	570.65	546.91
567.29	581.06	568.50	502.52	569.48	573.69	570.68	509.49
567.30	562.29	568.51	542.88	569.50	571.27	570.70	567.44
567.32	585.66	568.52	529.86	569.51	536.29	570.71	557.93
567.33	543.54	568.54	591.15	569.53	530.70	570.73	543.82
567.34	490.59	568.55	577.51	569.58	546.20	570.74	544.79
567.40	515.54	568.56	519.25	569.65	523.39	570.75	537.01
567.43	505.03	568.57	543.34	569.66	543.58	570.76	582.12
567.45	495.56	568.59	507.80	569.68	532.73	570.77	533.76
567.46	577.29	568.62	494.40	569.69	519.18	570.80	605.88
567.49	524.33	568.64	559.63	569.70	635.43	570.81	562.71
567.51	527.00	568.66	531.25	569.72	559.71	570.83	525.65
567.52	566.35	568.67	571.81	569.73	532.19	570.85	527.36
567.53	558.57	568.68	565.78	569.74	552.25	570.86	531.04
567.56	548.17	568.69	601.05	569.82	552.60	570.87	556.34
567.58	560.52	568.70	612.21	569.84	529.10	570.88	500.02
567.61	535.10	568.72	513.21	569.85	556.48	570.91	538.35
567.62	541.44	568.76	539.92	569.87	522.34	570.92	530.30
567.63	600.71	568.78	495.12	569.88	506.16	570.93	546.96
567.64	540.40	568.81	559.80	569.90	545.97	570.94	500.36
567.66	621.86	568.82	513.52	569.91	542.81	570.98	588.84
567.67	578.35	568.84	570.86	569.92	566.34	570.99	517.00
567.69	551.98	568.85	560.78	569.94	566.65	571.02	532.62
567.74	513.90	568.86	536.76	569.96	546.62	571.03	574.87
567.81	490.26	568.88	606.07	569.98	507.46	571.04	568.65

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
571.06	541.91	572.19	555.79	573.38	562.83	574.42	594.26
571.07	547.00	572.21	580.71	573.39	510.85	574.44	503.52
571.11	566.47	572.23	543.36	573.41	576.34	574.45	589.26
571.12	572.00	572.25	581.98	573.42	549.64	574.47	575.45
571.15	572.88	572.26	496.74	573.44	503.67	574.54	586.55
571.17	486.05	572.27	554.06	573.45	519.82	574.56	597.66
571.18	538.26	572.28	502.89	573.46	621.96	574.57	585.05
571.21	555.29	572.31	496.59	573.47	558.69	574.58	574.51
571.24	551.29	572.33	464.55	573.48	581.07	574.59	481.27
571.28	524.58	572.34	529.24	573.50	580.06	574.61	542.03
571.30	606.39	572.36	531.36	573.51	574.88	574.63	620.43
571.34	620.13	572.37	615.19	573.53	558.98	574.64	520.11
571.38	526.11	572.38	589.86	573.55	579.12	574.69	581.73
571.39	545.28	572.39	557.63	573.56	544.43	574.70	494.61
571.40	630.46	572.40	566.80	573.58	601.95	574.71	554.42
571.41	510.47	572.42	597.50	573.64	540.23	574.73	518.13
571.43	550.64	572.43	550.80	573.66	545.47	574.74	527.32
571.44	541.79	572.44	501.98	573.69	566.93	574.76	551.66
571.45	608.58	572.45	534.71	573.71	514.64	574.78	550.93
571.47	507.33	572.47	615.60	573.73	527.01	574.79	522.47
571.48	515.29	572.49	586.32	573.74	547.79	574.81	551.29
571.51	556.08	572.50	517.86	573.78	631.76	574.83	577.88
571.52	566.60	572.51	597.71	573.80	541.29	574.84	502.53
571.53	526.12	572.52	500.95	573.81	502.29	574.85	539.04
571.54	617.87	572.53	505.59	573.83	591.41	574.86	558.14
571.57	553.47	572.56	549.94	573.84	580.52	574.87	583.07
571.58	562.27	572.57	520.60	573.85	513.38	574.90	583.41
571.60	504.26	572.58	540.96	573.86	607.61	574.92	555.84
571.63	572.53	572.59	546.20	573.87	602.02	574.93	586.63
571.69	472.09	572.62	541.52	573.88	512.86	574.96	516.33
571.72	616.68	572.64	585.89	573.89	525.18	574.97	526.24
571.74	552.72	572.68	613.12	573.90	600.98	574.98	544.53
571.79	314.68	572.69	570.49	573.93	484.70	575.00	525.15
571.80	501.82	572.72	548.02	573.95	550.45	575.02	557.30
571.81	549.82	572.76	580.37	573.97	536.04	575.03	579.37
571.82	563.25	572.78	564.48	574.00	572.82	575.05	598.43
571.83	560.08	572.79	588.72	574.01	595.55	575.07	521.96
571.84	551.21	572.80	549.85	574.02	557.78	575.09	521.07
571.85	531.82	572.83	499.84	574.04	535.98	575.11	558.85
571.86	540.82	572.89	528.97	574.06	497.51	575.12	567.73
571.88	525.66	572.91	610.81	574.09	503.62	575.13	551.63
571.89	547.04	572.92	583.94	574.10	608.81	575.14	502.44
571.90	542.18	572.93	568.64	574.11	516.56	575.17	539.07
571.91	515.56	572.97	535.64	574.12	510.90	575.20	525.27
571.92	538.96	573.00	508.95	574.13	555.29	575.21	516.55
571.93	520.38	573.08	574.54	574.16	591.24	575.26	543.15
571.95	565.32	573.11	563.12	574.19	551.77	575.29	548.03
571.96	510.62	573.13	517.84	574.22	611.54	575.31	559.79
572.00	535.68	573.17	529.34	574.26	567.22	575.33	579.70
572.01	487.59	573.18	603.25	574.27	610.57	575.34	536.06
572.06	542.13	573.19	554.31	574.28	645.30	575.37	527.25
572.07	558.83	573.20	552.27	574.29	589.32	575.38	545.27
572.08	562.97	573.26	538.57	574.31	519.72	575.42	591.95
572.09	566.50	573.28	534.77	574.32	472.64	575.43	470.62
572.10	521.40	573.29	585.64	574.34	581.65	575.47	534.10
572.12	595.00	573.30	569.16	574.35	532.83	575.48	471.74
572.14	555.32	573.31	553.67	574.37	650.97	575.49	498.91
572.15	539.89	573.35	521.51	574.39	550.79	575.50	577.51
572.16	555.67	573.36	613.08	574.40	534.73	575.52	602.07
572.17	537.16	573.37	535.03	574.41	496.68	575.53	507.23



PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
575.54	568.71	576.99	550.71	578.17	489.21	579.30	541.86
575.57	592.33	577.00	506.09	578.19	542.10	579.31	547.99
575.59	492.00	577.01	554.33	578.20	579.12	579.32	559.64
575.67	555.24	577.03	546.59	578.22	515.14	579.33	497.69
575.68	531.87	577.04	585.32	578.23	594.11	579.35	449.10
575.72	577.99	577.05	554.50	578.24	479.84	579.36	567.12
575.76	558.33	577.06	561.52	578.28	559.26	579.42	528.96
575.79	558.64	577.09	536.46	578.29	555.08	579.43	610.03
575.82	498.19	577.11	454.70	578.30	595.78	579.44	593.36
575.83	513.76	577.12	605.44	578.32	565.58	579.45	616.35
575.84	612.70	577.13	534.23	578.33	587.65	579.46	523.10
575.85	547.34	577.15	568.15	578.38	532.98	579.49	556.18
575.86	577.55	577.18	548.37	578.39	524.91	579.50	530.47
575.87	554.69	577.19	591.47	578.40	554.83	579.52	574.14
575.88	540.29	577.21	544.28	578.42	525.10	579.53	569.76
575.89	567.35	577.27	603.45	578.44	544.95	579.54	533.86
575.90	538.85	577.28	550.27	578.45	582.08	579.60	520.28
575.91	551.61	577.30	515.13	578.47	623.98	579.61	501.52
575.92	532.40	577.32	609.93	578.48	566.93	579.62	578.99
575.95	617.58	577.38	584.33	578.50	513.53	579.63	586.67
575.96	519.40	577.40	567.82	578.52	576.02	579.65	589.14
575.98	592.59	577.42	559.40	578.53	579.74	579.66	549.00
575.99	502.27	577.43	515.16	578.55	518.51	579.68	561.54
576.00	523.71	577.45	602.88	578.56	623.00	579.69	551.41
576.05	520.24	577.49	532.50	578.61	511.06	579.70	524.78
576.09	581.16	577.54	565.77	578.62	512.37	579.72	521.75
576.14	567.32	577.57	543.64	578.64	529.95	579.76	593.95
576.17	541.26	577.62	535.99	578.66	536.39	579.79	514.87
576.18	505.81	577.63	601.44	578.69	485.78	579.82	575.52
576.19	514.25	577.65	587.95	578.72	602.24	579.84	491.04
576.20	589.98	577.66	578.43	578.73	589.57	579.85	587.04
576.21	548.56	577.67	572.05	578.74	572.76	579.86	538.15
576.25	500.59	577.68	590.42	578.77	599.92	579.87	604.20
576.29	536.64	577.70	513.74	578.78	527.32	579.89	581.58
576.30	554.08	577.71	499.85	578.81	512.30	579.90	508.28
576.40	552.73	577.73	523.27	578.82	566.16	579.97	520.65
576.41	546.17	577.74	558.53	578.84	538.23	579.98	572.08
576.42	537.62	577.75	505.59	578.87	529.09	579.99	536.42
576.49	616.53	577.76	575.24	578.88	528.31	580.03	563.25
576.51	589.67	577.77	602.73	578.89	576.15	580.04	559.18
576.52	537.25	577.79	501.87	578.90	543.40	580.05	583.35
576.54	524.78	577.80	600.76	578.91	545.83	580.07	525.94
576.55	557.53	577.81	534.78	578.92	564.42	580.08	566.53
576.59	544.03	577.83	542.64	578.93	537.64	580.10	588.81
576.60	487.14	577.85	586.58	578.96	573.42	580.16	494.71
576.63	589.97	577.86	530.27	578.98	601.48	580.17	548.57
576.67	536.49	577.88	565.62	579.01	563.07	580.20	500.91
576.68	583.07	577.89	528.49	579.02	573.57	580.21	542.08
576.69	605.63	577.90	505.53	579.06	492.73	580.28	546.66
576.72	456.19	577.93	573.71	579.08	565.33	580.29	592.04
576.74	600.69	577.95	537.09	579.10	553.31	580.32	523.07
576.77	513.07	577.96	606.34	579.14	517.60	580.35	535.22
576.79	577.27	577.97	508.16	579.16	531.43	580.38	584.15
576.81	572.12	577.99	566.24	579.17	504.57	580.39	582.20
576.85	585.22	578.01	515.25	579.20	634.39	580.40	583.66
576.87	543.67	578.02	539.59	579.21	526.06	580.41	567.55
576.91	619.18	578.03	538.74	579.25	608.13	580.42	579.01
576.92	558.51	578.04	574.06	579.26	544.17	580.44	583.25
576.93	587.24	578.10	546.61	579.27	528.83	580.45	506.16
576.94	563.19	578.13	512.60	579.29	640.30	580.47	617.92

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
580.49	462.73	581.93	543.77	583.12	586.61	584.29	589.87
580.50	536.68	581.95	504.48	583.16	555.52	584.33	559.76
580.52	552.67	582.00	542.90	583.18	606.12	584.34	557.49
580.53	579.34	582.04	532.98	583.20	525.48	584.35	557.05
580.54	564.56	582.05	521.10	583.22	513.23	584.36	569.22
580.55	508.96	582.08	576.36	583.24	653.11	584.38	543.23
580.56	540.44	582.13	544.54	583.26	548.79	584.39	498.79
580.59	586.29	582.15	580.97	583.27	557.77	584.40	574.65
580.60	563.84	582.17	520.71	583.28	533.32	584.41	522.92
580.63	592.21	582.18	512.15	583.29	528.20	584.46	546.37
580.65	570.58	582.22	627.56	583.33	502.48	584.51	569.32
580.66	556.22	582.23	516.85	583.37	557.18	584.53	577.31
580.67	573.40	582.24	584.01	583.41	651.79	584.55	532.73
580.70	598.62	582.25	497.07	583.46	557.11	584.56	486.55
580.73	563.89	582.28	581.79	583.47	534.84	584.58	570.04
580.74	534.95	582.29	514.08	583.49	461.44	584.59	532.43
580.77	537.38	582.30	569.22	583.51	550.87	584.60	546.31
580.79	509.25	582.32	546.60	583.52	544.94	584.61	571.89
580.84	530.23	582.35	580.02	583.54	567.43	584.62	612.85
580.85	551.58	582.37	640.17	583.55	497.78	584.65	589.75
580.88	550.99	582.41	535.76	583.56	523.45	584.68	561.64
580.90	454.29	582.44	571.39	583.64	600.75	584.70	567.84
581.00	545.54	582.46	551.95	583.65	673.22	584.72	594.70
581.01	552.24	582.48	528.18	583.66	587.91	584.73	509.50
581.05	599.04	582.49	565.58	583.68	512.69	584.74	530.75
581.07	516.19	582.53	562.43	583.70	578.57	584.77	575.79
581.08	511.19	582.54	614.26	583.71	516.39	584.78	599.56
581.09	626.83	582.56	544.29	583.73	479.01	584.81	565.84
581.11	476.06	582.58	595.38	583.74	585.49	584.82	575.05
581.12	627.41	582.59	634.38	583.75	573.11	584.85	578.21
581.19	533.94	582.63	522.78	583.78	576.07	584.86	569.28
581.21	512.32	582.65	535.42	583.80	523.82	584.87	540.02
581.22	543.14	582.66	565.73	583.83	523.92	584.94	579.41
581.26	569.35	582.67	564.04	583.84	579.49	584.96	587.73
581.28	540.84	582.68	676.09	583.85	498.07	584.98	593.49
581.31	503.34	582.69	505.56	583.86	517.44	584.99	548.68
581.32	549.44	582.71	581.91	583.87	549.39	585.00	584.22
581.34	557.89	582.72	544.92	583.88	566.62	585.05	560.95
581.39	614.45	582.73	558.69	583.89	542.25	585.06	517.36
581.42	548.68	582.76	570.02	583.90	559.37	585.07	531.44
581.43	609.83	582.79	528.33	583.91	511.73	585.08	536.97
581.44	585.20	582.81	531.93	583.93	585.18	585.09	573.92
581.46	535.08	582.83	550.33	583.94	547.61	585.11	590.39
581.47	577.06	582.87	571.61	583.96	561.16	585.12	622.37
581.51	590.11	582.90	513.08	584.01	569.24	585.13	553.68
581.56	586.68	582.91	560.71	584.02	623.94	585.15	597.64
581.60	544.30	582.92	578.88	584.03	586.18	585.17	566.73
581.61	569.48	582.93	508.24	584.05	573.95	585.18	524.69
581.62	554.40	582.95	594.37	584.06	531.94	585.19	618.76
581.65	501.72	582.96	599.55	584.08	549.91	585.20	581.27
581.67	627.09	582.99	592.22	584.09	534.97	585.28	553.05
581.68	547.90	583.00	583.55	584.10	523.28	585.29	560.73
581.72	517.21	583.02	570.85	584.12	545.88	585.30	583.22
581.74	536.95	583.03	536.23	584.13	564.90	585.32	609.34
581.75	597.22	583.04	590.13	584.18	534.10	585.36	567.27
581.76	577.19	583.05	546.18	584.21	502.48	585.37	611.12
581.81	509.47	583.06	593.43	584.22	600.63	585.41	591.95
581.86	577.64	583.07	614.41	584.24	623.31	585.45	555.40
581.87	563.85	583.08	536.11	584.27	539.40	585.46	633.91
581.91	573.86	583.11	554.96	584.28	534.15	585.47	506.01

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
585.49	587.30	586.56	560.32	587.72	584.34	588.89	558.79
585.50	556.23	586.58	551.61	587.75	577.37	588.91	568.41
585.51	519.49	586.60	551.11	587.76	557.54	588.92	527.64
585.52	546.01	586.65	497.81	587.78	544.98	588.99	505.82
585.55	555.43	586.68	539.52	587.82	519.95	589.02	574.79
585.56	549.68	586.69	626.13	587.83	566.41	589.03	559.06
585.57	586.35	586.70	489.16	587.84	520.47	589.04	570.54
585.61	602.47	586.72	575.34	587.87	596.72	589.07	594.77
585.62	559.13	586.75	601.91	587.91	559.42	589.08	612.46
585.63	532.88	586.78	563.50	587.92	575.13	589.09	570.56
585.64	597.05	586.80	598.27	587.94	571.51	589.10	536.95
585.65	521.60	586.81	506.38	587.95	543.19	589.12	604.25
585.66	516.49	586.83	639.81	587.96	555.56	589.14	620.98
585.73	563.16	586.85	593.72	587.97	535.94	589.15	643.04
585.76	577.49	586.86	571.10	587.99	538.62	589.18	547.69
585.79	643.99	586.87	574.22	588.01	522.14	589.22	500.44
585.80	542.34	586.88	576.94	588.03	516.90	589.24	557.58
585.81	530.64	586.90	604.76	588.06	570.60	589.25	570.88
585.84	530.09	586.92	486.47	588.07	486.99	589.26	626.75
585.89	537.10	586.93	582.37	588.08	519.07	589.27	539.40
585.90	572.40	586.94	515.92	588.09	544.23	589.28	533.87
585.92	531.59	586.97	545.18	588.10	514.61	589.29	537.91
585.93	608.17	586.99	560.31	588.14	564.66	589.31	600.31
585.95	637.30	587.02	630.93	588.16	570.77	589.32	519.60
586.01	546.06	587.05	576.96	588.18	535.89	589.34	552.98
586.03	538.41	587.06	527.07	588.19	554.18	589.35	561.29
586.07	586.81	587.07	578.67	588.21	561.31	589.36	535.22
586.09	567.85	587.09	586.63	588.25	586.63	589.37	533.88
586.11	529.72	587.10	510.82	588.27	546.14	589.38	572.92
586.14	560.84	587.11	580.05	588.29	557.65	589.41	618.17
586.15	561.13	587.14	599.69	588.31	562.81	589.42	545.03
586.17	596.35	587.15	542.08	588.33	548.08	589.43	587.54
586.20	511.03	587.20	627.42	588.34	589.29	589.46	615.93
586.21	525.34	587.21	665.42	588.36	563.27	589.51	597.15
586.22	572.10	587.22	532.32	588.37	605.91	589.54	511.34
586.23	529.24	587.23	589.08	588.40	537.17	589.55	589.82
586.24	483.33	587.24	542.54	588.41	583.29	589.56	571.81
586.25	556.95	587.26	570.78	588.43	558.21	589.57	463.58
586.26	563.32	587.27	568.86	588.45	526.98	589.58	602.84
586.28	626.38	587.29	595.99	588.46	519.35	589.59	516.86
586.29	584.68	587.31	529.77	588.47	568.38	589.62	622.50
586.31	529.25	587.32	557.49	588.49	543.65	589.63	556.92
586.32	595.13	587.33	523.53	588.51	613.06	589.65	575.53
586.33	603.03	587.35	587.66	588.52	531.29	589.66	572.82
586.34	544.62	587.36	590.00	588.59	547.56	589.67	566.51
586.35	599.17	587.39	523.91	588.60	572.22	589.68	571.87
586.37	613.00	587.41	568.37	588.63	533.17	589.69	589.97
586.40	525.89	587.42	545.59	588.66	613.49	589.71	545.23
586.41	605.13	587.43	545.19	588.67	554.53	589.72	559.82
586.44	628.67	587.45	563.26	588.68	574.77	589.73	554.94
586.45	510.41	587.47	563.85	588.69	525.26	589.74	495.90
586.46	602.27	587.50	558.02	588.70	532.46	589.75	509.54
586.47	579.61	587.51	580.42	588.71	562.59	589.76	547.59
586.48	558.20	587.52	590.77	588.74	570.96	589.79	529.49
586.49	537.35	587.53	492.37	588.75	637.96	589.83	569.29
586.50	587.98	587.55	526.60	588.76	559.34	589.84	547.62
586.51	494.03	587.59	535.20	588.77	550.33	589.86	580.46
586.52	527.57	587.61	557.38	588.81	573.55	589.87	532.76
586.54	615.71	587.62	552.76	588.87	619.72	589.88	548.84
586.55	573.22	587.70	529.27	588.88	558.52	589.92	545.00

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
589.96	584.78	591.22	574.72	592.19	649.41	593.38	606.55
589.99	567.13	591.25	574.40	592.20	535.00	593.40	601.73
590.01	566.82	591.26	595.96	592.23	509.24	593.42	536.23
590.02	556.74	591.30	570.54	592.24	-100.00	593.44	577.08
590.07	582.09	591.31	519.05	592.27	601.84	593.46	560.04
590.08	578.25	591.34	521.39	592.29	617.77	593.48	529.24
590.10	626.04	591.35	573.88	592.30	621.60	593.49	509.20
590.12	544.23	591.36	575.22	592.31	536.55	593.50	548.09
590.13	621.17	591.38	573.71	592.35	633.42	593.53	524.85
590.15	589.62	591.39	545.23	592.37	514.20	593.55	566.10
590.16	565.69	591.40	565.76	592.38	508.86	593.57	566.33
590.17	525.83	591.41	539.54	592.39	481.28	593.58	587.71
590.19	568.89	591.43	543.26	592.40	558.35	593.60	652.54
590.21	538.13	591.44	582.51	592.41	530.62	593.64	531.06
590.22	561.17	591.45	568.60	592.47	597.06	593.66	544.94
590.23	541.34	591.46	593.32	592.48	549.17	593.68	607.70
590.25	548.15	591.48	511.57	592.50	552.24	593.69	607.00
590.29	611.49	591.49	562.70	592.53	653.81	593.74	630.20
590.33	542.22	591.50	561.31	592.55	494.42	593.78	604.61
590.34	602.90	591.51	602.18	592.57	595.14	593.80	513.49
590.36	601.52	591.53	523.71	592.59	646.01	593.82	541.23
590.41	536.10	591.54	508.47	592.60	616.64	593.83	525.10
590.43	537.94	591.57	540.71	592.61	585.66	593.86	620.60
590.45	669.90	591.58	559.34	592.62	593.86	593.87	561.64
590.47	607.15	591.59	628.77	592.65	516.18	593.90	554.85
590.49	599.94	591.61	677.07	592.68	565.01	593.94	544.10
590.51	543.70	591.63	516.48	592.70	593.63	593.95	589.77
590.53	584.00	591.65	535.51	592.72	538.82	593.97	591.34
590.54	572.21	591.66	603.67	592.73	578.40	593.98	621.73
590.55	547.24	591.70	553.91	592.75	560.32	594.00	615.32
590.57	550.72	591.72	596.66	592.76	530.09	594.02	573.83
590.58	659.38	591.73	522.97	592.79	531.24	594.03	524.85
590.59	563.73	591.74	513.54	592.80	607.10	594.08	533.50
590.61	539.42	591.75	596.07	592.81	656.81	594.09	594.09
590.62	560.76	591.76	593.87	592.82	646.57	594.10	588.66
590.68	537.97	591.77	579.91	592.83	589.42	594.12	641.29
590.70	615.43	591.79	576.40	592.84	553.86	594.13	638.45
590.73	651.54	591.80	545.78	592.85	506.89	594.14	600.40
590.74	596.09	591.81	520.13	592.87	584.86	594.16	554.16
590.76	564.94	591.84	546.38	592.91	602.05	594.17	580.65
590.77	589.46	591.86	538.26	592.92	577.83	594.18	561.10
590.78	616.41	591.87	619.57	592.93	615.07	594.19	533.87
590.82	589.21	591.88	602.67	592.94	606.31	594.23	552.00
590.83	637.00	591.89	598.87	592.97	572.76	594.24	557.36
590.84	534.93	591.91	570.29	592.98	515.69	594.27	587.67
590.87	622.70	591.92	501.03	592.99	539.60	594.32	578.51
590.88	594.13	591.95	527.98	593.04	575.40	594.35	582.19
590.94	588.70	591.96	560.52	593.08	599.37	594.37	608.49
590.95	609.85	591.97	603.37	593.09	631.36	594.39	524.28
590.96	641.06	592.00	607.36	593.11	531.42	594.43	530.33
590.98	579.19	592.01	550.12	593.12	556.19	594.45	603.09
591.01	513.44	592.02	560.83	593.14	624.77	594.46	492.04
591.05	623.11	592.03	582.07	593.15	572.93	594.47	562.46
591.07	545.22	592.04	567.88	593.19	636.62	594.49	568.01
591.08	615.47	592.05	605.86	593.22	564.51	594.50	528.03
591.09	531.93	592.09	563.92	593.23	566.74	594.52	576.36
591.14	572.59	592.10	525.42	593.27	481.63	594.55	576.06
591.15	567.31	592.12	583.15	593.29	513.36	594.56	595.90
591.17	596.55	592.13	537.20	593.34	559.34	594.59	585.33
591.20	586.05	592.18	568.75	593.37	549.97	594.60	526.74

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
594.61	537.42	595.88	548.23	597.35	585.76	598.71	541.21
594.65	573.78	595.89	541.58	597.36	620.99	598.76	585.06
594.68	473.37	595.95	531.71	597.38	576.37	598.77	637.89
594.71	570.08	595.97	580.30	597.39	516.68	598.78	551.41
594.72	584.38	595.99	545.22	597.44	537.55	598.79	492.17
594.73	559.37	596.00	575.13	597.45	555.73	598.81	628.08
594.74	616.42	596.05	602.28	597.46	552.74	598.84	595.90
594.77	589.11	596.07	578.52	597.47	564.20	598.86	592.03
594.78	545.45	596.12	519.92	597.48	532.70	598.88	609.48
594.79	519.36	596.14	614.01	597.50	589.89	598.89	587.64
594.80	574.11	596.22	543.67	597.51	594.53	598.90	565.84
594.81	587.38	596.27	595.02	597.55	549.50	598.98	556.51
594.84	528.00	596.32	570.39	597.56	618.63	599.02	581.01
594.89	604.16	596.33	588.04	597.60	601.31	599.05	578.96
594.90	544.28	596.39	532.73	597.64	597.18	599.06	604.32
594.92	567.63	596.44	577.58	597.65	568.13	599.07	596.53
594.94	567.48	596.45	555.48	597.66	614.16	599.09	579.78
594.99	557.56	596.49	533.01	597.67	537.49	599.10	578.16
595.00	503.86	596.51	603.44	597.70	674.53	599.11	477.77
595.03	606.60	596.54	574.84	597.72	577.22	599.13	576.91
595.04	577.92	596.56	565.56	597.74	523.72	599.14	611.93
595.06	564.63	596.60	512.55	597.76	574.90	599.16	630.45
595.07	587.26	596.62	593.30	597.78	588.78	599.18	559.20
595.09	566.92	596.65	616.48	597.80	615.97	599.19	540.48
595.10	588.62	596.66	564.27	597.83	649.29	599.23	536.72
595.13	558.49	596.68	552.68	597.85	543.29	599.26	597.32
595.15	552.86	596.70	565.81	597.87	638.87	599.28	573.92
595.19	625.22	596.72	571.83	597.88	584.75	599.29	565.28
595.22	565.29	596.75	533.50	597.93	585.33	599.30	553.39
595.24	549.07	596.77	541.50	597.94	548.85	599.32	584.78
595.26	551.95	596.78	556.08	597.95	548.50	599.33	552.62
595.27	563.61	596.83	652.71	598.00	585.27	599.36	644.36
595.30	579.33	596.85	600.15	598.04	585.89	599.37	515.00
595.33	535.15	596.89	632.86	598.05	569.31	599.38	608.85
595.35	613.46	596.90	637.66	598.08	532.50	599.39	577.11
595.38	599.66	596.91	540.13	598.10	567.89	599.40	540.29
595.44	511.89	596.92	555.95	598.11	551.56	599.42	592.97
595.45	623.75	596.94	595.47	598.15	550.70	599.43	621.34
595.46	580.08	596.98	534.52	598.17	561.01	599.46	573.64
595.47	556.34	596.99	506.91	598.20	593.79	599.47	585.73
595.48	630.72	597.00	599.40	598.26	575.87	599.48	630.81
595.49	590.47	597.02	584.23	598.27	583.16	599.49	599.70
595.50	518.33	597.03	625.14	598.29	534.12	599.51	531.37
595.52	641.16	597.05	545.05	598.30	613.53	599.52	574.19
595.53	562.07	597.07	576.18	598.31	543.40	599.53	577.08
595.54	589.62	597.08	509.44	598.32	576.54	599.55	568.62
595.55	567.23	597.09	632.14	598.34	561.99	599.56	616.14
595.58	545.35	597.10	555.21	598.37	587.92	599.59	533.91
595.60	567.58	597.11	568.84	598.39	543.21	599.60	602.89
595.61	553.19	597.12	576.84	598.42	533.89	599.61	537.71
595.62	596.98	597.17	551.05	598.44	530.86	599.62	605.15
595.63	596.39	597.18	571.27	598.49	551.30	599.64	509.12
595.67	606.23	597.19	559.32	598.54	548.55	599.69	552.61
595.72	622.59	597.21	601.23	598.58	535.56	599.71	553.05
595.76	584.23	597.22	590.13	598.60	547.75	599.72	547.74
595.78	566.21	597.25	520.47	598.61	576.69	599.73	546.98
595.79	598.68	597.26	508.76	598.64	568.90	599.76	667.36
595.80	589.64	597.27	590.24	598.67	592.30	599.77	540.03
595.85	556.31	597.28	613.40	598.68	565.82	599.81	565.81
595.86	604.66	597.33	604.68	598.70	570.17	599.83	585.23

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
599.84	617.61	601.17	514.31	602.58	572.98	603.76	564.39
599.85	546.08	601.21	549.54	602.62	577.24	603.77	560.75
599.88	605.39	601.22	559.31	602.63	581.43	603.81	493.87
599.90	576.93	601.23	601.67	602.64	518.13	603.82	546.94
599.92	608.55	601.25	630.40	602.66	545.15	603.86	537.18
599.95	581.54	601.27	591.07	602.67	576.91	603.89	564.72
599.97	624.44	601.28	563.89	602.68	596.10	603.91	539.48
599.98	535.26	601.32	570.95	602.74	562.81	603.94	530.10
600.02	535.93	601.34	570.58	602.75	561.14	603.96	647.01
600.07	629.32	601.37	649.45	602.77	573.23	603.99	545.03
600.09	562.55	601.40	613.37	602.80	545.69	604.01	551.26
600.10	556.69	601.42	661.29	602.81	609.31	604.02	602.65
600.11	563.03	601.44	604.35	602.82	625.44	604.04	529.87
600.14	595.49	601.46	578.50	602.85	544.11	604.12	531.65
600.15	534.00	601.48	586.10	602.87	571.32	604.13	556.72
600.17	613.43	601.56	598.72	602.90	580.66	604.14	540.96
600.23	564.30	601.61	509.14	602.91	572.37	604.15	636.77
600.27	579.31	601.62	503.23	602.92	531.55	604.18	661.08
600.28	611.55	601.63	611.46	602.93	562.16	604.19	593.92
600.34	517.32	601.64	601.29	602.95	574.69	604.20	589.70
600.35	554.08	601.65	580.21	603.00	628.44	604.21	542.95
600.38	550.56	601.66	567.78	603.01	502.30	604.24	539.39
600.39	578.73	601.72	545.34	603.02	614.10	604.26	564.56
600.41	597.36	601.73	616.52	603.10	587.59	604.27	574.37
600.42	585.67	601.74	621.05	603.12	536.45	604.29	582.47
600.43	630.15	601.75	580.52	603.13	566.27	604.30	544.60
600.45	557.05	601.76	631.57	603.17	514.65	604.32	586.76
600.46	634.98	601.78	587.39	603.18	588.73	604.35	621.73
600.49	553.91	601.80	551.81	603.19	555.93	604.36	532.64
600.50	572.71	601.82	575.68	603.22	608.31	604.37	647.09
600.51	648.08	601.84	571.47	603.23	614.88	604.38	611.21
600.52	530.86	601.90	519.83	603.24	556.50	604.46	592.15
600.55	557.23	601.92	536.48	603.25	618.68	604.47	591.85
600.56	603.86	601.97	543.69	603.27	623.55	604.50	561.36
600.58	604.17	601.99	594.75	603.28	541.74	604.52	581.80
600.60	577.92	602.02	590.13	603.29	547.86	604.53	632.37
600.63	604.46	602.07	641.14	603.30	505.48	604.56	536.28
600.64	512.32	602.08	525.82	603.32	606.37	604.57	652.96
600.65	631.86	602.12	592.45	603.35	523.88	604.59	550.23
600.66	657.15	602.16	533.96	603.36	563.72	604.61	645.76
600.67	599.86	602.18	551.02	603.37	499.32	604.62	569.00
600.68	569.98	602.19	571.42	603.40	572.92	604.63	537.69
600.70	572.68	602.23	569.70	603.41	617.70	604.67	617.99
600.71	598.83	602.24	513.65	603.42	550.47	604.70	585.04
600.74	572.59	602.28	570.29	603.43	603.00	604.77	593.46
600.78	577.40	602.31	551.58	603.47	595.97	604.78	479.49
600.80	600.18	602.32	505.35	603.49	579.74	604.82	572.14
600.81	582.54	602.33	531.96	603.52	614.56	604.84	555.49
600.86	588.68	602.34	632.49	603.53	586.93	604.86	549.87
600.93	596.93	602.39	544.13	603.55	509.24	604.89	524.45
600.96	619.80	602.40	553.13	603.57	604.99	604.90	557.54
600.97	557.64	602.42	661.86	603.60	620.63	604.91	564.82
600.99	578.40	602.44	563.54	603.62	552.48	604.92	580.41
601.00	549.56	602.45	616.75	603.64	625.47	604.93	621.98
601.01	541.99	602.46	578.13	603.66	585.51	604.94	586.42
601.03	594.31	602.47	571.11	603.68	610.03	604.95	545.48
601.04	581.72	602.51	608.34	603.69	588.42	605.00	597.26
601.07	619.71	602.52	549.26	603.71	661.61	605.01	516.38
601.08	543.18	602.56	540.33	603.72	555.91	605.04	577.31
601.12	588.27	602.57	550.73	603.73	598.40	605.05	564.62

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
605.10	615.65	606.56	600.60	608.00	549.03	609.45	610.64
605.12	615.35	606.57	557.51	608.03	614.94	609.46	626.80
605.13	595.46	606.58	534.35	608.06	537.49	609.48	526.14
605.17	564.06	606.59	643.32	608.07	521.22	609.51	637.88
605.18	520.15	606.61	563.62	608.09	554.65	609.53	673.71
605.22	571.04	606.63	571.64	608.11	568.44	609.54	588.33
605.23	526.27	606.64	590.33	608.13	546.65	609.55	588.20
605.25	547.53	606.68	649.18	608.16	585.61	609.60	598.34
605.30	642.04	606.69	532.32	608.18	576.56	609.62	601.05
605.35	598.35	606.73	522.68	608.22	571.73	609.64	563.65
605.37	591.49	606.74	521.62	608.23	538.51	609.65	522.82
605.45	561.93	606.76	539.08	608.24	625.19	609.68	506.93
605.49	626.56	606.79	612.03	608.25	555.89	609.70	610.31
605.50	574.56	606.81	579.21	608.26	585.01	609.72	514.64
605.51	624.35	606.84	601.67	608.28	584.70	609.73	597.41
605.54	542.75	606.85	574.62	608.29	624.06	609.74	604.91
605.55	623.07	606.87	575.20	608.32	596.94	609.75	608.85
605.58	564.72	606.92	567.89	608.33	534.09	609.76	551.06
605.61	631.18	606.94	569.98	608.36	578.73	609.77	606.87
605.64	623.03	606.97	655.68	608.41	565.93	609.78	570.25
605.65	651.39	606.98	551.93	608.42	539.27	609.79	581.10
605.66	598.90	606.99	628.81	608.44	580.27	609.80	600.31
605.69	612.58	607.01	657.29	608.47	516.02	609.83	618.29
605.70	585.04	607.02	590.67	608.51	602.78	609.84	636.98
605.72	582.94	607.05	593.97	608.52	551.43	609.89	580.18
605.78	537.15	607.06	666.66	608.62	625.87	609.90	612.28
605.81	635.63	607.08	505.11	608.64	570.24	609.92	586.83
605.85	698.36	607.11	610.95	608.69	615.32	609.96	537.70
605.86	555.04	607.12	608.19	608.72	561.11	609.98	546.29
605.87	553.21	607.20	586.31	608.75	582.40	609.99	575.10
605.89	592.15	607.22	653.59	608.77	554.89	610.05	565.60
605.91	550.92	607.25	542.08	608.85	541.15	610.07	542.70
605.94	567.13	607.26	595.68	608.86	584.72	610.08	561.06
605.97	524.40	607.29	572.71	608.90	551.70	610.10	610.93
605.98	597.21	607.32	546.17	608.93	588.90	610.13	618.39
606.01	558.07	607.34	611.94	608.94	605.88	610.15	562.85
606.03	538.19	607.36	552.34	608.99	513.97	610.19	618.97
606.05	644.06	607.37	574.13	609.02	560.75	610.23	598.60
606.07	559.39	607.43	606.79	609.04	615.96	610.30	542.11
606.08	572.91	607.47	556.88	609.08	591.89	610.31	583.38
606.10	530.98	607.50	616.31	609.10	624.18	610.32	629.96
606.13	619.71	607.52	567.90	609.11	503.59	610.33	616.25
606.15	547.11	607.53	619.47	609.13	567.34	610.34	649.98
606.16	581.42	607.55	537.28	609.14	583.48	610.35	631.08
606.18	523.39	607.56	539.22	609.15	574.45	610.36	597.89
606.19	563.25	607.57	527.85	609.16	556.02	610.37	619.65
606.21	571.28	607.58	553.06	609.20	565.65	610.39	582.33
606.22	587.99	607.59	612.80	609.21	531.47	610.41	612.00
606.26	582.29	607.61	541.30	609.22	553.47	610.44	599.24
606.27	521.92	607.65	605.47	609.24	541.39	610.48	632.23
606.28	590.00	607.69	578.17	609.26	577.16	610.52	567.71
606.34	602.53	607.70	562.82	609.27	583.99	610.54	532.16
606.36	539.66	607.72	489.99	609.31	641.48	610.55	600.96
606.37	615.73	607.75	609.61	609.32	558.99	610.59	585.18
606.45	554.24	607.76	558.70	609.34	552.89	610.60	585.55
606.46	534.39	607.84	580.84	609.35	602.55	610.62	568.51
606.47	595.26	607.86	551.68	609.39	612.64	610.64	615.98
606.48	564.46	607.87	619.71	609.41	632.67	610.67	589.97
606.49	604.91	607.93	656.14	609.42	571.68	610.71	486.16
606.51	622.94	607.96	637.47	609.44	658.37	610.78	566.28

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
610.83	560.87	612.25	561.14	613.79	530.18	615.13	618.56
610.85	573.70	612.27	560.89	613.80	555.77	615.14	533.79
610.87	534.27	612.29	585.06	613.81	582.28	615.15	574.11
610.88	628.24	612.31	672.25	613.83	600.51	615.18	655.58
610.89	566.38	612.38	560.96	613.90	583.25	615.20	544.09
610.90	578.25	612.39	603.92	613.95	508.45	615.24	594.02
610.96	650.15	612.40	540.94	613.96	624.62	615.25	504.07
610.97	598.77	612.41	553.42	613.97	544.89	615.27	601.16
610.98	604.86	612.43	643.84	613.98	623.82	615.28	529.70
611.04	566.33	612.45	593.70	614.00	573.43	615.31	576.17
611.05	573.35	612.48	561.20	614.02	589.35	615.33	529.84
611.12	557.02	612.50	582.09	614.05	613.04	615.34	547.73
611.19	548.96	612.51	579.86	614.06	639.78	615.35	594.76
611.20	594.06	612.56	556.73	614.10	605.90	615.36	606.53
611.21	458.10	612.57	601.04	614.15	586.00	615.41	585.38
611.22	572.82	612.61	609.46	614.17	604.14	615.42	613.71
611.26	517.23	612.63	585.01	614.20	586.93	615.43	563.48
611.32	602.59	612.64	644.75	614.22	654.56	615.49	609.56
611.33	651.65	612.68	542.20	614.23	609.05	615.52	606.73
611.34	611.12	612.69	530.54	614.24	573.13	615.53	621.27
611.39	546.58	612.70	625.47	614.26	543.71	615.62	620.94
611.41	591.68	612.71	562.52	614.28	574.55	615.63	601.63
611.42	608.22	612.74	604.53	614.33	603.88	615.66	551.23
611.43	553.30	612.76	663.00	614.37	655.35	615.67	477.33
611.46	561.28	612.87	622.82	614.38	646.27	615.68	576.58
611.47	581.25	612.92	570.48	614.39	603.90	615.72	614.29
611.48	659.99	612.93	561.23	614.41	547.16	615.76	504.49
611.49	627.54	612.96	574.24	614.43	607.28	615.78	594.14
611.50	643.22	612.99	583.67	614.44	535.67	615.79	587.20
611.51	557.96	613.01	567.91	614.50	591.66	615.82	608.90
611.53	580.99	613.02	592.28	614.53	629.74	615.87	561.67
611.55	570.98	613.11	586.35	614.54	613.90	615.89	545.88
611.56	621.65	613.13	495.88	614.57	581.30	615.92	560.00
611.57	563.47	613.14	537.96	614.59	532.87	615.93	601.03
611.59	584.10	613.15	530.47	614.60	613.89	615.95	623.77
611.66	606.73	613.18	632.90	614.61	578.04	616.01	574.35
611.67	591.35	613.19	606.98	614.62	655.64	616.03	544.40
611.73	620.35	613.22	645.20	614.64	572.89	616.05	565.47
611.74	541.90	613.24	546.32	614.66	578.75	616.08	504.24
611.77	578.08	613.25	569.10	614.67	606.83	616.09	616.32
611.82	588.63	613.26	685.84	614.68	663.69	616.12	600.38
611.83	583.81	613.28	531.69	614.71	606.99	616.13	607.12
611.84	572.93	613.31	586.84	614.72	555.64	616.16	561.58
611.86	639.06	613.33	656.53	614.73	583.73	616.17	618.69
611.89	699.83	613.39	627.90	614.74	592.04	616.18	679.39
611.93	612.01	613.42	646.07	614.81	539.69	616.19	533.04
611.95	508.04	613.47	568.01	614.84	626.86	616.21	555.96
611.97	552.14	613.51	623.23	614.87	591.35	616.22	573.13
612.05	593.74	613.53	556.10	614.88	613.23	616.28	571.33
612.07	603.38	613.54	585.31	614.90	661.92	616.29	565.33
612.09	636.24	613.55	579.01	614.94	698.06	616.34	645.19
612.13	603.52	613.56	563.97	614.95	562.18	616.35	494.30
612.14	544.54	613.64	588.06	614.99	579.66	616.36	586.02
612.15	578.55	613.65	611.18	615.01	578.83	616.40	594.76
612.16	603.58	613.67	620.33	615.02	571.69	616.41	578.02
612.18	575.14	613.72	631.67	615.05	625.23	616.46	610.05
612.19	575.60	613.73	639.06	615.06	670.19	616.47	651.37
612.20	562.96	613.75	636.44	615.07	569.42	616.48	594.41
612.21	541.15	613.76	640.03	615.10	552.50	616.50	608.97
612.23	575.40	613.78	586.12	615.11	537.69	616.51	604.63



PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
616.54	613.24	618.32	568.83	619.94	599.10	621.54	614.43
616.57	607.99	618.34	647.76	619.97	591.73	621.59	591.52
616.63	535.64	618.35	573.09	620.09	614.30	621.62	595.40
616.65	582.33	618.36	574.21	620.10	577.47	621.63	551.07
616.72	525.30	618.37	578.68	620.11	654.34	621.64	533.89
616.74	573.36	618.39	573.69	620.13	625.79	621.69	612.52
616.76	585.16	618.43	576.81	620.15	563.59	621.70	547.56
616.78	589.99	618.45	576.56	620.19	572.09	621.71	599.99
616.79	572.06	618.50	540.45	620.22	546.16	621.76	594.36
616.81	601.76	618.55	588.06	620.25	600.36	621.78	570.54
616.85	603.73	618.57	658.08	620.28	562.08	621.79	551.87
616.87	516.08	618.58	609.32	620.29	567.31	621.80	561.88
616.88	621.93	618.61	677.29	620.33	614.16	621.81	559.11
616.89	588.78	618.63	591.84	620.43	593.60	621.82	625.15
616.91	554.85	618.65	697.99	620.47	605.17	621.85	622.51
617.01	568.82	618.69	597.93	620.49	630.42	621.86	566.80
617.02	551.73	618.70	633.04	620.50	627.04	621.91	561.51
617.03	562.39	618.74	602.16	620.51	626.77	621.93	552.05
617.13	561.57	618.76	578.76	620.53	638.25	621.94	555.59
617.15	600.55	618.80	553.41	620.56	602.95	621.95	559.12
617.19	580.63	618.81	627.40	620.57	585.11	621.96	599.14
617.20	568.21	618.84	614.34	620.59	616.30	621.97	646.33
617.24	601.09	618.85	611.96	620.62	643.16	621.98	514.26
617.26	603.54	618.88	545.09	620.67	564.59	621.99	611.67
617.28	556.66	618.92	555.67	620.70	642.72	622.00	547.92
617.29	573.53	618.93	636.55	620.72	638.20	622.04	614.77
617.35	560.90	618.96	546.67	620.73	600.82	622.15	589.39
617.36	534.12	618.98	558.05	620.74	530.90	622.16	552.80
617.39	593.14	618.99	529.74	620.79	582.35	622.17	658.78
617.43	589.51	619.13	623.88	620.80	535.56	622.22	632.14
617.47	534.41	619.15	567.62	620.85	557.95	622.24	582.39
617.59	629.12	619.16	546.68	620.89	537.36	622.30	609.88
617.60	561.83	619.19	633.65	620.94	622.96	622.31	663.14
617.61	553.08	619.20	649.95	620.98	570.77	622.33	543.07
617.62	593.36	619.22	596.16	621.00	565.17	622.40	549.93
617.63	529.34	619.23	627.29	621.01	565.47	622.41	598.89
617.66	532.05	619.29	600.08	621.05	597.17	622.45	585.13
617.70	546.59	619.31	590.94	621.07	563.48	622.46	600.13
617.71	546.25	619.33	613.28	621.08	573.57	622.47	585.64
617.73	647.62	619.34	581.04	621.10	619.17	622.49	570.75
617.77	579.41	619.37	579.84	621.13	537.36	622.51	593.17
617.84	591.96	619.38	591.21	621.15	605.49	622.52	546.22
617.85	529.30	619.39	637.00	621.19	597.66	622.53	598.13
617.87	586.63	619.41	568.52	621.22	644.18	622.54	627.15
617.91	572.96	619.46	569.44	621.23	587.07	622.57	571.36
617.96	637.35	619.47	577.93	621.24	624.76	622.58	565.19
618.03	547.87	619.48	604.86	621.28	587.93	622.63	537.20
618.04	586.17	619.50	560.63	621.29	567.06	622.64	683.91
618.06	647.05	619.53	606.68	621.30	594.38	622.68	628.22
618.08	572.71	619.54	596.94	621.31	588.82	622.71	587.29
618.10	649.00	619.55	597.72	621.35	581.36	622.73	554.06
618.14	596.08	619.69	563.07	621.36	555.35	622.74	658.25
618.19	610.32	619.70	567.95	621.37	555.53	622.75	601.94
618.21	584.95	619.72	597.24	621.38	504.65	622.77	597.56
618.24	572.28	619.74	520.54	621.39	612.84	622.83	620.48
618.25	598.05	619.75	624.01	621.40	627.88	622.85	589.48
618.26	517.66	619.79	559.70	621.42	576.90	622.86	606.08
618.27	672.01	619.90	599.96	621.44	583.76	622.87	586.29
618.29	540.05	619.91	498.24	621.49	641.47	622.89	627.61
618.31	566.13	619.92	618.92	621.51	578.02	622.92	560.87

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
622.95	628.38	624.51	631.71	626.24	629.44	627.62	598.08
622.97	636.59	624.52	626.96	626.25	676.13	627.65	532.32
622.99	677.46	624.53	638.89	626.26	582.91	627.69	641.33
623.02	556.56	624.57	508.41	626.27	639.09	627.71	569.56
623.04	587.42	624.62	621.33	626.28	603.31	627.73	568.60
623.05	578.05	624.66	575.39	626.32	544.69	627.78	641.00
623.09	644.98	624.68	619.72	626.34	561.47	627.80	618.24
623.14	541.53	624.69	549.09	626.36	634.66	627.81	561.79
623.15	599.99	624.70	523.55	626.42	604.98	627.82	594.59
623.26	598.70	624.73	461.55	626.43	623.91	627.85	540.34
623.27	614.80	624.75	592.18	626.44	606.52	627.86	589.95
623.30	541.91	624.79	590.32	626.47	576.62	627.88	614.46
623.32	584.87	624.80	590.67	626.48	623.22	627.93	598.32
623.34	583.14	624.82	605.77	626.49	589.69	628.02	604.60
623.35	573.88	624.83	588.99	626.51	550.45	628.05	498.77
623.36	576.20	624.84	660.98	626.55	602.56	628.07	596.04
623.37	597.28	624.85	615.68	626.56	558.34	628.08	486.54
623.38	570.02	624.90	618.02	626.57	544.81	628.11	570.40
623.44	553.78	624.93	599.33	626.59	535.73	628.19	633.83
623.45	572.67	624.94	593.09	626.62	638.60	628.20	602.58
623.50	579.30	624.97	532.68	626.63	608.70	628.22	595.76
623.60	577.83	625.02	535.63	626.66	572.12	628.33	633.64
623.63	619.33	625.06	557.62	626.70	584.84	628.34	615.04
623.69	626.23	625.08	691.91	626.72	640.66	628.35	642.11
623.70	640.93	625.11	568.60	626.75	543.79	628.36	572.96
623.71	591.63	625.12	658.62	626.77	543.19	628.37	566.19
623.72	601.69	625.18	589.55	626.78	548.76	628.39	628.92
623.75	629.42	625.21	580.44	626.79	621.82	628.43	581.55
623.77	589.79	625.29	613.70	626.83	623.31	628.44	593.13
623.79	591.56	625.30	648.30	626.85	522.40	628.46	594.64
623.80	581.84	625.31	543.48	626.90	563.99	628.50	561.65
623.81	580.87	625.38	559.98	626.91	608.63	628.51	595.68
623.87	604.67	625.41	610.88	626.93	583.69	628.52	655.25
623.88	606.81	625.46	581.22	626.94	595.95	628.57	520.04
623.89	526.90	625.49	565.06	627.00	598.81	628.60	615.16
623.92	583.92	625.56	549.92	627.03	602.27	628.66	579.67
623.93	531.77	625.61	573.63	627.04	545.80	628.67	592.47
623.94	554.92	625.62	595.66	627.06	544.84	628.69	587.34
624.04	586.75	625.64	608.86	627.08	523.85	628.70	597.82
624.06	525.87	625.65	577.82	627.09	604.79	628.71	602.98
624.07	622.37	625.66	609.66	627.14	626.86	628.73	584.90
624.09	577.18	625.67	570.34	627.16	537.28	628.74	568.60
624.15	592.10	625.69	564.76	627.18	593.59	628.76	625.64
624.16	585.01	625.73	560.75	627.19	583.48	628.78	643.19
624.19	580.11	625.75	603.50	627.21	549.58	628.79	548.38
624.20	544.64	625.76	598.75	627.22	580.21	628.80	616.56
624.21	523.72	625.78	557.17	627.23	631.13	628.82	613.44
624.23	579.82	625.83	634.98	627.25	590.91	628.86	620.70
624.24	561.35	625.89	616.16	627.27	593.09	628.91	602.20
624.25	603.17	625.90	596.65	627.31	572.68	628.92	441.22
624.26	549.90	625.97	597.07	627.35	614.22	628.94	651.61
624.27	635.28	626.00	539.31	627.36	582.80	629.01	588.51
624.31	618.64	626.01	647.82	627.38	634.82	629.04	587.54
624.32	640.57	626.02	637.73	627.42	582.72	629.08	621.19
624.33	609.44	626.04	581.35	627.45	545.55	629.09	647.06
624.35	596.70	626.09	591.44	627.48	625.28	629.12	590.43
624.41	640.91	626.14	550.49	627.54	602.46	629.13	598.98
624.43	632.75	626.21	652.86	627.56	648.34	629.18	655.22
624.46	654.70	626.22	622.58	627.60	574.54	629.19	654.66
624.49	624.56	626.23	531.63	627.61	530.86	629.22	622.28

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
629.25	560.83	630.91	538.59	632.27	573.53	634.02	562.28
629.31	621.10	630.93	627.06	632.30	488.47	634.04	612.95
629.33	649.15	630.95	542.80	632.32	567.00	634.08	587.96
629.43	597.76	630.98	627.84	632.33	650.31	634.10	596.25
629.48	605.81	630.99	636.33	632.34	668.95	634.12	583.68
629.53	603.90	631.05	630.17	632.36	605.48	634.13	641.41
629.55	601.51	631.06	605.42	632.37	590.21	634.14	625.30
629.56	632.47	631.08	500.30	632.39	600.54	634.17	614.78
629.60	665.16	631.09	532.43	632.40	567.13	634.20	608.26
629.61	569.21	631.10	677.30	632.42	575.77	634.25	667.32
629.62	578.28	631.12	589.91	632.46	589.77	634.27	616.98
629.64	605.13	631.13	636.57	632.48	564.35	634.30	529.43
629.70	584.16	631.14	570.02	632.52	558.52	634.31	591.81
629.72	557.26	631.15	559.46	632.53	589.24	634.32	610.80
629.79	604.65	631.17	598.66	632.55	620.88	634.39	580.72
629.80	583.51	631.21	518.90	632.58	607.32	634.42	610.29
629.82	594.64	631.22	620.15	632.60	610.02	634.43	630.66
629.83	618.22	631.24	609.08	632.63	550.06	634.44	623.11
629.90	636.08	631.28	597.77	632.64	567.90	634.45	580.10
629.91	639.20	631.29	653.37	632.65	605.47	634.47	526.01
629.98	608.73	631.35	640.82	632.66	599.14	634.50	556.77
630.02	684.77	631.37	574.94	632.68	568.70	634.54	620.47
630.03	547.34	631.39	620.28	632.70	541.81	634.55	583.09
630.04	622.13	631.40	570.30	632.71	607.90	634.56	588.85
630.05	644.03	631.45	606.62	632.75	552.61	634.57	646.74
630.06	561.93	631.47	650.43	632.81	584.58	634.58	606.05
630.07	637.89	631.48	560.64	632.87	612.45	634.60	616.25
630.10	575.78	631.52	594.08	632.90	556.52	634.61	646.04
630.12	560.01	631.54	637.42	632.97	662.14	634.64	611.31
630.13	568.26	631.55	637.64	633.00	623.12	634.67	653.46
630.16	633.78	631.56	583.22	633.01	513.18	634.72	616.58
630.19	597.42	631.57	658.16	633.06	560.03	634.75	634.40
630.24	631.62	631.59	564.49	633.10	573.15	634.82	636.31
630.25	546.59	631.60	621.14	633.13	566.31	634.83	611.51
630.30	669.14	631.63	593.67	633.15	567.06	634.91	577.00
630.31	538.14	631.64	587.62	633.18	606.35	634.92	548.06
630.33	642.14	631.69	615.89	633.19	517.02	634.94	619.45
630.35	520.34	631.71	552.62	633.20	594.29	634.95	582.44
630.38	631.73	631.75	681.03	633.21	610.47	635.08	608.94
630.40	569.99	631.76	569.49	633.24	533.57	635.11	644.84
630.41	641.23	631.77	598.15	633.29	609.89	635.12	597.35
630.49	562.11	631.82	592.50	633.32	599.45	635.19	684.19
630.52	582.93	631.84	638.71	633.40	556.98	635.21	642.08
630.54	595.68	631.85	589.03	633.43	530.59	635.23	584.08
630.55	572.18	631.87	615.60	633.45	616.79	635.26	630.61
630.56	528.44	631.89	607.74	633.46	582.67	635.28	674.45
630.57	618.29	631.96	599.92	633.50	561.65	635.35	619.24
630.59	676.83	631.99	571.75	633.51	614.04	635.36	578.29
630.60	603.01	632.00	604.15	633.52	586.61	635.39	587.23
630.61	603.81	632.01	521.39	633.53	576.26	635.41	652.16
630.62	591.81	632.04	563.58	633.57	558.11	635.42	563.62
630.67	618.05	632.05	582.23	633.64	695.85	635.48	565.00
630.69	613.26	632.08	616.71	633.67	516.24	635.50	608.57
630.72	544.86	632.12	600.49	633.69	644.94	635.51	554.79
630.73	641.02	632.13	577.36	633.71	605.44	635.56	593.46
630.82	558.26	632.14	632.92	633.84	604.85	635.58	620.04
630.85	550.14	632.15	617.48	633.89	607.68	635.62	558.95
630.86	640.65	632.20	659.91	633.90	553.41	635.63	529.52
630.89	598.43	632.21	586.38	633.92	576.05	635.65	642.62
630.90	628.29	632.23	578.65	633.93	634.23	635.69	592.08

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
635.70	634.53	637.60	623.47	639.59	639.71	641.43	603.19
635.72	688.40	637.61	609.37	639.60	555.60	641.45	531.53
635.73	546.75	637.62	551.17	639.61	602.76	641.46	641.98
635.77	577.11	637.64	649.11	639.65	591.79	641.48	581.11
635.79	553.63	637.67	593.63	639.66	592.80	641.51	618.60
635.85	640.79	637.69	597.97	639.68	565.36	641.52	585.46
635.86	676.83	637.74	615.04	639.78	657.13	641.56	619.81
635.96	584.53	637.75	610.12	639.83	653.74	641.58	641.32
635.99	565.68	637.76	597.87	639.84	575.55	641.63	631.47
636.00	607.45	637.82	618.54	639.86	593.29	641.65	651.00
636.01	625.94	637.85	610.58	639.93	581.62	641.66	664.20
636.08	596.72	637.87	615.02	639.95	609.72	641.67	559.57
636.16	597.69	637.94	554.13	639.97	582.15	641.68	666.12
636.19	667.42	637.96	567.25	639.99	600.52	641.70	579.44
636.21	602.53	637.98	546.39	640.02	579.33	641.75	578.48
636.22	570.39	638.07	570.32	640.03	597.81	641.76	675.02
636.23	557.10	638.09	593.28	640.07	598.38	641.79	622.81
636.26	594.22	638.17	579.43	640.08	604.37	641.80	560.19
636.27	589.97	638.21	638.54	640.13	533.42	641.86	575.51
636.31	600.31	638.24	604.91	640.14	569.98	641.87	581.79
636.32	580.02	638.27	586.34	640.16	662.07	641.91	659.08
636.39	557.57	638.35	556.01	640.18	606.81	641.93	532.02
636.40	581.97	638.36	595.03	640.19	586.01	641.96	621.90
636.44	670.89	638.38	525.18	640.24	582.12	642.07	621.91
636.50	613.18	638.40	593.72	640.28	597.02	642.09	579.21
636.53	607.39	638.42	572.43	640.29	626.93	642.12	611.17
636.54	613.62	638.44	588.17	640.31	613.03	642.17	614.60
636.60	610.60	638.46	604.80	640.34	614.39	642.19	618.43
636.62	693.08	638.47	593.57	640.37	650.69	642.22	622.76
636.63	547.96	638.52	631.41	640.39	611.04	642.29	670.57
636.65	628.67	638.54	629.66	640.41	602.75	642.32	549.27
636.67	608.32	638.55	638.61	640.43	583.08	642.34	634.96
636.70	563.59	638.63	616.54	640.45	647.70	642.35	617.92
636.73	519.37	638.65	629.58	640.47	591.67	642.38	591.76
636.81	616.68	638.66	609.61	640.54	534.91	642.42	619.34
636.82	544.25	638.72	560.53	640.60	610.79	642.44	647.60
636.83	526.90	638.76	583.50	640.63	600.60	642.45	649.23
636.86	549.15	638.77	587.45	640.68	594.27	642.46	546.77
636.87	551.85	638.78	596.92	640.78	568.54	642.49	620.39
636.89	553.61	638.80	614.00	640.81	579.89	642.53	607.60
636.93	590.54	638.81	544.79	640.82	539.93	642.55	539.44
636.97	653.68	638.83	581.79	640.83	564.08	642.62	543.74
636.98	602.38	638.86	647.02	640.85	539.96	642.65	700.17
636.99	666.92	638.88	615.93	640.89	631.60	642.68	594.51
637.04	625.32	639.02	662.29	640.90	577.13	642.69	589.74
637.06	621.90	639.08	602.70	640.94	642.25	642.72	656.99
637.07	560.69	639.13	669.64	640.97	627.27	642.76	668.72
637.16	590.78	639.20	667.23	640.99	601.98	642.77	525.14
637.17	638.82	639.26	597.82	641.01	614.84	642.78	657.77
637.24	608.13	639.27	640.98	641.05	637.07	642.80	557.04
637.25	563.90	639.32	593.63	641.07	586.90	642.83	529.85
637.26	550.60	639.33	618.37	641.17	667.48	642.89	715.14
637.30	597.43	639.41	614.22	641.19	697.74	642.90	600.78
637.36	597.57	639.43	630.79	641.21	638.92	642.93	619.77
637.37	579.65	639.45	649.31	641.24	627.42	642.96	565.77
637.47	607.18	639.46	597.89	641.25	568.28	643.03	570.99
637.51	613.78	639.49	607.09	641.28	641.28	643.09	681.68
637.52	604.78	639.54	664.97	641.29	683.50	643.11	541.19
637.54	558.15	639.55	582.10	641.35	639.49	643.13	671.35
637.56	581.92	639.58	567.27	641.36	520.34	643.25	622.02

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
643.26	626.37	645.31	610.21	647.07	636.05	649.48	551.91
643.28	650.29	645.32	587.37	647.09	657.78	649.49	609.81
643.31	585.13	645.39	631.20	647.11	554.29	649.51	619.99
643.32	638.19	645.43	584.84	647.13	629.16	649.52	621.58
643.34	651.26	645.46	697.09	647.16	561.73	649.60	591.61
643.43	691.04	645.57	582.36	647.26	582.83	649.71	651.96
643.48	589.05	645.58	580.21	647.29	622.36	649.73	580.78
643.49	603.24	645.63	554.25	647.33	565.80	649.80	602.73
643.53	515.83	645.65	637.79	647.34	634.14	649.83	612.28
643.54	541.09	645.68	656.13	647.38	566.26	649.84	539.83
643.55	584.83	645.69	652.72	647.40	599.23	649.88	582.36
643.63	685.12	645.70	622.40	647.44	633.88	649.89	650.76
643.64	622.18	645.75	531.19	647.49	582.63	649.93	556.09
643.65	642.09	645.79	528.39	647.51	624.98	649.94	651.94
643.66	580.71	645.81	592.33	647.55	611.43	650.00	576.93
643.68	554.02	645.86	590.57	647.56	730.25	650.02	579.29
643.73	720.84	645.89	573.56	647.63	667.64	650.03	604.22
643.75	588.53	645.95	633.83	647.65	781.36	650.04	622.51
643.76	547.23	645.96	712.44	647.67	-100.00	650.09	666.58
643.80	590.09	645.97	555.66	647.71	630.74	650.13	697.83
643.87	535.09	645.99	577.98	647.75	657.75	650.20	613.65
643.88	591.18	646.04	585.66	647.77	598.44	650.25	620.84
643.90	587.01	646.13	673.19	647.81	580.18	650.26	614.45
643.93	578.28	646.15	562.70	647.82	643.75	650.29	629.32
643.96	606.80	646.16	665.49	647.93	595.57	650.33	642.12
643.99	639.29	646.19	589.85	647.94	608.54	650.37	557.53
644.05	613.52	646.20	683.34	647.96	673.47	650.42	578.94
644.09	606.63	646.29	624.79	647.98	592.13	650.44	582.21
644.11	617.17	646.30	697.35	648.02	600.73	650.48	588.81
644.12	637.93	646.32	606.35	648.07	643.50	650.52	669.01
644.15	558.52	646.34	622.47	648.09	604.38	650.58	619.69
644.17	652.36	646.35	667.92	648.14	562.78	650.60	582.94
644.18	593.48	646.41	629.92	648.16	522.83	650.64	666.47
644.24	548.11	646.46	672.38	648.17	588.41	650.67	597.40
644.28	663.71	646.47	606.14	648.18	593.91	650.68	623.99
644.29	552.73	646.53	615.16	648.23	632.72	650.69	595.59
644.30	588.51	646.54	606.84	648.26	609.34	650.77	569.70
644.35	570.44	646.55	567.57	648.27	635.15	650.79	654.66
644.36	573.83	646.56	600.58	648.33	610.27	650.80	672.47
644.37	557.11	646.59	580.16	648.34	606.37	650.86	642.22
644.38	576.16	646.64	539.13	648.37	663.35	650.90	668.44
644.43	657.01	646.66	556.30	648.42	693.81	650.91	686.53
644.48	569.01	646.68	522.79	648.51	578.44	650.94	663.44
644.49	730.11	646.69	575.58	648.52	616.39	650.96	598.66
644.58	693.47	646.70	540.45	648.59	587.11	650.97	569.33
644.59	583.81	646.71	572.45	648.60	674.60	650.98	604.03
644.60	592.25	646.74	658.27	648.62	606.02	651.02	609.59
644.74	634.63	646.76	625.74	648.75	600.30	651.04	595.08
644.76	593.16	646.80	598.03	648.83	554.40	651.07	529.95
644.80	611.22	646.81	592.97	648.85	666.78	651.08	565.28
644.86	638.48	646.84	620.09	648.90	550.86	651.10	580.22
644.89	646.57	646.85	581.54	648.97	640.15	651.13	649.46
644.92	636.91	646.86	561.88	649.03	651.45	651.14	579.50
644.99	604.76	646.87	597.98	649.17	668.06	651.17	651.35
645.00	628.51	646.88	620.84	649.20	582.24	651.20	618.37
645.08	574.69	646.90	633.11	649.22	627.74	651.21	559.20
645.10	575.44	646.91	681.16	649.25	586.73	651.36	570.10
645.14	545.68	646.92	654.03	649.35	576.14	651.37	585.52
645.18	636.67	647.02	562.24	649.38	656.14	651.44	537.11
645.29	597.82	647.03	683.60	649.41	571.77	651.47	542.14

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
651.48	631.74	653.89	597.77	656.58	614.73	658.94	685.56
651.49	521.10	653.92	648.63	656.64	635.08	658.97	574.08
651.57	584.65	654.02	611.76	656.65	625.22	658.99	619.93
651.58	619.70	654.09	637.28	656.69	647.00	659.01	609.40
651.66	589.31	654.10	561.22	656.73	556.05	659.06	634.92
651.73	599.79	654.16	547.95	656.79	667.83	659.22	646.67
651.77	594.93	654.19	615.22	656.81	676.17	659.25	574.34
651.86	573.25	654.22	572.72	656.86	590.04	659.27	567.72
651.87	544.11	654.24	595.91	656.90	599.45	659.31	603.89
651.89	549.09	654.28	621.19	656.93	712.61	659.34	659.37
652.04	592.35	654.31	692.94	656.95	612.11	659.37	606.48
652.05	588.07	654.36	646.33	656.98	558.61	659.39	642.80
652.06	644.24	654.42	551.55	657.13	650.20	659.51	637.18
652.11	615.97	654.43	693.38	657.15	712.39	659.53	661.35
652.15	644.85	654.44	577.44	657.21	586.00	659.59	612.10
652.17	606.86	654.47	622.38	657.22	628.45	659.65	618.55
652.18	608.92	654.56	559.02	657.23	668.54	659.70	637.17
652.21	700.90	654.65	626.46	657.28	635.95	659.71	607.02
652.24	610.31	654.73	633.31	657.34	556.86	659.72	637.65
652.27	681.82	654.75	708.33	657.39	645.75	659.74	581.61
652.29	636.76	654.80	628.82	657.40	659.23	659.83	599.81
652.34	613.74	654.93	620.29	657.42	686.52	659.87	628.86
652.44	573.21	654.98	584.28	657.43	630.61	659.88	552.50
652.47	642.03	655.02	667.83	657.44	569.37	659.90	579.00
652.48	637.48	655.05	620.69	657.51	556.17	659.93	594.89
652.52	622.12	655.09	604.00	657.55	634.10	660.06	648.10
652.55	589.50	655.10	674.47	657.56	609.83	660.13	564.01
652.58	603.42	655.13	652.85	657.60	562.46	660.19	535.43
652.63	625.88	655.18	631.78	657.61	636.24	660.22	628.18
652.72	623.92	655.21	667.74	657.62	553.88	660.24	630.22
652.75	634.29	655.24	523.37	657.68	629.07	660.28	619.52
652.76	631.40	655.27	632.53	657.69	647.52	660.29	624.73
652.81	657.95	655.30	609.14	657.70	556.41	660.39	625.02
652.88	556.50	655.36	538.63	657.74	601.78	660.44	532.04
652.93	623.38	655.38	624.38	657.85	615.46	660.48	657.15
652.96	629.64	655.39	629.35	657.88	571.79	660.56	629.15
652.98	635.48	655.44	592.10	657.90	650.75	660.73	619.36
653.02	648.68	655.46	624.81	657.91	640.38	660.75	666.73
653.03	711.63	655.62	596.00	657.92	626.83	660.80	632.16
653.04	561.78	655.75	595.03	658.01	646.88	660.81	640.58
653.11	643.04	655.77	587.85	658.02	568.95	660.82	635.44
653.12	621.30	655.79	592.91	658.04	626.71	660.83	643.68
653.21	614.25	655.85	611.13	658.06	654.78	660.86	634.12
653.22	604.84	655.91	623.26	658.10	602.19	660.89	632.62
653.27	667.21	655.95	685.68	658.11	715.12	660.98	591.18
653.29	567.55	656.00	650.06	658.19	579.79	661.05	600.34
653.37	659.50	656.08	675.32	658.22	650.30	661.06	600.19
653.39	603.56	656.15	597.19	658.23	591.71	661.07	620.48
653.40	565.25	656.19	568.75	658.24	628.57	661.19	616.14
653.42	610.12	656.24	567.19	658.25	563.75	661.27	696.90
653.45	674.18	656.31	666.16	658.29	575.33	661.30	625.53
653.48	554.36	656.32	657.04	658.31	592.66	661.34	535.24
653.52	650.20	656.34	597.49	658.42	616.47	661.44	546.96
653.54	644.86	656.39	631.76	658.51	577.68	661.45	618.20
653.57	615.31	656.40	576.80	658.54	629.72	661.57	638.87
653.62	601.32	656.41	638.31	658.62	551.50	661.66	571.17
653.63	577.05	656.45	623.44	658.63	606.14	661.68	619.52
653.66	625.08	656.54	634.82	658.71	624.00	661.73	628.48
653.70	618.82	656.55	648.18	658.79	618.82	661.77	602.67
653.82	640.92	656.56	649.12	658.91	630.24	661.79	622.63

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
661.83	625.45	664.32	580.55	667.20	671.09	671.22	640.84
661.86	685.95	664.37	563.26	667.21	566.55	671.26	560.73
661.88	624.94	664.41	613.93	667.42	588.60	671.34	611.18
662.00	608.87	664.43	674.31	667.47	587.97	671.49	646.71
662.10	682.14	664.44	578.99	667.60	628.51	671.50	620.09
662.14	578.20	664.50	635.16	667.61	674.08	671.53	623.66
662.16	645.86	664.54	630.90	667.80	700.30	671.56	726.14
662.20	569.73	664.62	589.71	667.88	721.04	671.58	647.54
662.26	573.49	664.66	695.27	667.92	670.34	671.59	649.60
662.28	613.76	664.76	638.13	667.94	561.65	671.64	650.07
662.29	601.15	664.81	567.85	667.96	589.25	671.75	584.75
662.32	605.13	664.82	584.57	668.09	613.88	671.78	579.39
662.33	666.38	664.84	552.60	668.12	575.15	671.80	759.28
662.36	608.91	664.86	605.29	668.19	623.79	671.82	556.92
662.42	633.20	664.97	656.33	668.31	685.81	671.90	627.95
662.44	606.89	664.98	564.82	668.36	642.35	671.95	702.60
662.45	666.95	665.13	626.23	668.41	627.72	671.97	626.55
662.47	626.73	665.15	627.87	668.56	535.72	672.02	658.40
662.50	652.00	665.21	592.56	668.57	685.59	672.03	678.62
662.51	691.07	665.23	671.80	668.62	641.66	672.09	584.68
662.53	601.27	665.31	682.23	668.64	663.40	672.17	642.27
662.55	513.73	665.34	651.36	668.65	675.73	672.19	598.98
662.59	583.58	665.40	624.06	668.73	646.57	672.28	594.20
662.61	551.19	665.41	623.27	668.78	652.16	672.31	628.54
662.63	580.88	665.45	656.69	669.07	641.70	672.32	602.32
662.69	678.25	665.63	568.25	669.08	624.14	672.34	617.10
662.74	707.93	665.64	665.72	669.12	650.92	672.35	699.23
662.78	643.01	665.72	630.14	669.15	620.12	672.41	561.28
662.88	591.97	665.75	671.12	669.24	583.69	672.42	636.13
662.94	606.23	665.95	620.78	669.25	650.11	672.43	680.15
662.95	573.71	665.98	587.43	669.28	538.08	672.47	613.48
662.99	705.02	665.99	656.21	669.32	693.65	672.50	573.11
663.04	661.60	666.00	615.93	669.33	613.36	672.65	636.52
663.05	644.19	666.05	684.15	669.34	558.21	672.74	651.06
663.07	584.43	666.07	635.31	669.37	566.33	672.79	574.81
663.14	522.33	666.10	690.03	669.47	589.80	673.02	632.62
663.17	648.71	666.15	653.42	669.66	661.77	673.03	584.81
663.18	704.64	666.16	610.24	669.67	610.92	673.10	636.89
663.21	639.41	666.17	563.78	669.84	583.23	673.30	622.06
663.28	604.78	666.18	636.92	669.93	621.24	673.38	605.31
663.48	642.37	666.22	599.42	670.07	582.08	673.56	718.41
663.54	579.20	666.24	567.08	670.09	627.92	673.67	562.28
663.56	611.91	666.30	556.85	670.14	691.88	673.76	677.51
663.60	589.54	666.33	586.27	670.22	668.79	673.83	675.12
663.65	658.85	666.40	717.07	670.24	565.07	674.09	625.12
663.66	654.56	666.43	619.71	670.26	628.14	674.20	712.12
663.70	613.64	666.46	690.03	670.30	663.25	674.22	595.23
663.73	609.37	666.49	617.66	670.31	652.21	674.31	592.04
663.85	614.43	666.53	712.70	670.37	659.15	674.34	652.76
663.86	600.16	666.55	652.95	670.41	625.22	674.40	573.19
663.87	681.08	666.63	622.47	670.44	566.05	674.47	638.20
663.92	541.26	666.64	587.57	670.55	607.97	674.52	669.73
664.04	645.27	666.77	615.16	670.60	616.18	674.53	664.51
664.11	609.47	666.81	663.16	670.77	612.65	674.66	612.65
664.13	608.03	666.85	631.12	670.92	632.90	674.77	665.96
664.16	611.24	666.88	564.97	670.93	563.88	674.81	610.52
664.18	617.90	666.95	598.08	671.00	641.66	674.85	687.59
664.24	641.20	667.17	635.98	671.06	532.37	674.88	667.68
664.26	639.89	667.18	633.82	671.10	637.45	674.98	604.63
664.28	620.03	667.19	534.67	671.11	656.36	675.00	623.66

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
675.04	682.84	678.53	540.35	682.35	783.89	686.18	554.26
675.13	656.43	678.69	641.66	682.39	612.95	686.23	712.31
675.17	620.05	678.71	680.63	682.40	633.42	686.28	660.38
675.22	603.12	678.73	571.37	682.41	695.60	686.37	627.34
675.32	639.67	678.75	711.23	682.44	615.44	686.52	698.68
675.34	642.96	678.76	640.70	682.54	601.83	686.53	630.80
675.42	627.96	678.95	568.58	682.58	652.59	686.72	716.41
675.43	594.40	678.96	647.04	682.75	628.61	686.73	602.57
675.47	666.99	678.99	626.11	682.81	621.80	686.83	618.16
675.56	647.94	679.06	544.10	682.87	620.06	686.90	624.41
675.58	664.80	679.09	656.04	682.94	660.07	687.06	723.60
675.60	568.78	679.16	643.82	683.05	676.09	687.14	525.93
675.61	647.68	679.28	631.72	683.07	640.49	687.21	687.28
675.87	679.19	679.29	685.21	683.12	673.49	687.25	650.01
675.90	673.63	679.30	638.63	683.22	607.75	687.38	546.44
675.91	584.58	679.34	568.72	683.23	545.53	687.61	720.60
675.96	527.87	679.42	669.19	683.29	608.41	687.72	593.11
675.97	634.19	679.48	704.74	683.33	737.08	687.73	643.34
676.03	604.06	679.58	619.52	683.36	597.58	687.78	673.32
676.04	652.07	679.75	597.57	683.46	602.98	687.79	593.17
676.11	576.08	679.85	667.66	683.68	602.41	687.83	611.19
676.19	638.87	679.90	617.67	683.76	622.11	687.84	688.35
676.40	574.18	680.06	625.04	683.79	663.99	687.86	668.28
676.43	677.97	680.13	550.09	683.90	568.57	687.88	645.53
676.49	631.68	680.16	649.42	683.92	636.43	688.11	616.10
676.57	644.83	680.17	639.74	684.04	656.47	688.27	666.82
676.63	691.02	680.26	666.05	684.06	684.14	688.51	666.15
676.64	701.44	680.27	582.05	684.19	613.71	688.55	584.83
676.71	572.32	680.29	623.33	684.22	655.68	688.66	676.14
676.75	613.76	680.34	604.81	684.38	705.42	688.74	649.60
676.78	618.51	680.37	597.46	684.41	611.48	688.85	515.53
676.80	647.71	680.41	653.91	684.45	631.68	689.08	746.19
676.87	575.52	680.42	708.14	684.49	585.80	689.19	634.90
676.89	595.75	680.52	617.06	684.50	609.24	689.21	655.41
677.06	629.78	680.59	614.48	684.52	584.86	689.39	618.19
677.08	584.91	680.60	651.52	684.53	561.21	689.42	651.21
677.16	592.36	680.64	613.18	684.55	636.95	689.51	668.30
677.22	680.52	680.76	682.92	684.62	628.28	689.56	667.13
677.29	612.94	680.97	628.27	684.67	647.20	689.70	653.25
677.34	598.90	680.99	570.35	684.70	633.75	689.73	676.97
677.35	666.31	681.20	646.80	684.73	549.98	690.04	689.21
677.44	600.29	681.21	651.16	684.78	523.46	690.06	628.94
677.46	527.81	681.28	564.45	684.85	628.05	690.21	620.60
677.51	676.68	681.38	658.42	684.98	615.98	690.22	635.25
677.53	647.61	681.41	565.12	685.01	568.07	690.26	641.26
677.54	629.45	681.43	632.97	685.08	705.74	690.43	596.34
677.55	561.94	681.49	569.52	685.13	632.80	690.44	580.77
677.59	649.86	681.50	670.99	685.17	583.78	690.51	675.94
677.62	632.05	681.58	592.66	685.24	687.31	690.52	622.20
677.64	678.10	681.60	650.97	685.32	684.43	690.58	642.38
677.96	656.66	681.62	576.01	685.35	668.60	690.72	630.82
677.97	670.26	681.76	609.95	685.48	584.37	690.73	691.14
677.98	605.36	681.78	590.02	685.51	548.68	690.79	661.57
678.00	658.64	681.80	686.86	685.64	642.90	690.85	622.94
678.02	587.99	681.88	580.65	685.67	700.98	690.88	629.27
678.06	644.13	682.00	675.68	685.71	660.90	690.92	622.21
678.08	655.29	682.11	605.12	685.82	727.90	690.97	726.48
678.16	553.02	682.21	594.87	685.85	706.62	690.99	613.09
678.18	646.26	682.22	657.66	685.90	667.27	691.01	674.12
678.28	624.93	682.26	629.79	686.04	669.62	691.12	588.21



PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
691.14	655.47	696.68	728.95	701.28	652.95	707.40	680.18
691.30	665.94	696.80	677.51	701.42	635.59	707.62	634.64
691.39	547.28	696.86	630.25	701.55	577.81	707.69	619.81
691.45	684.08	696.87	693.41	701.70	661.85	707.80	711.61
691.52	599.41	696.95	556.12	701.73	732.85	707.96	776.44
691.54	651.77	697.29	586.66	701.77	618.15	708.15	591.65
691.56	607.48	697.33	697.95	701.79	660.36	708.41	745.05
691.71	591.39	697.57	692.41	701.90	560.78	708.42	671.25
691.89	744.17	697.64	623.84	701.94	696.65	708.58	598.62
692.14	675.17	697.72	707.77	702.13	776.94	708.72	709.36
692.23	674.99	697.73	676.67	702.14	678.20	708.90	699.08
692.36	646.80	697.76	695.22	702.16	615.40	708.92	720.60
692.37	659.25	697.83	647.82	702.26	668.00	708.95	659.31
692.46	679.96	697.98	637.70	702.36	634.80	709.11	719.93
692.53	609.33	698.11	627.55	702.44	599.46	709.16	649.59
692.76	563.90	698.22	698.63	702.49	682.17	709.20	631.97
692.80	614.76	698.25	633.33	702.60	639.28	709.53	600.36
692.82	659.32	698.27	632.48	702.73	674.67	709.57	575.51
692.89	635.48	698.36	642.09	702.75	689.92	709.72	665.46
693.35	610.89	698.38	675.72	702.88	666.58	709.77	601.30
693.43	567.77	698.40	658.22	703.00	696.58	709.78	573.90
693.44	626.05	698.45	671.88	703.01	745.37	709.89	646.93
693.46	575.80	698.50	626.81	703.02	600.72	710.01	608.14
693.67	682.44	698.66	632.94	703.07	630.65	710.12	634.47
693.75	589.17	698.68	658.92	703.11	689.82	710.40	661.17
693.80	608.86	698.71	586.35	703.26	668.54	710.59	734.73
693.81	642.80	698.90	692.66	703.35	645.25	710.69	584.65
693.84	677.10	699.03	673.62	703.43	747.43	710.96	643.17
693.96	587.71	699.08	649.59	703.50	649.50	711.12	573.60
693.99	577.55	699.11	715.06	703.71	608.28	711.15	721.55
694.01	632.31	699.13	676.23	703.99	697.77	711.20	677.92
694.17	647.63	699.23	608.66	704.10	681.33	711.26	643.68
694.26	682.66	699.25	622.50	704.25	669.72	711.31	649.98
694.33	664.77	699.28	670.19	704.30	669.31	711.43	687.98
694.63	676.86	699.36	665.79	704.34	660.75	711.44	554.93
694.70	750.76	699.38	693.54	704.41	638.82	711.51	663.31
694.72	721.06	699.56	627.42	704.98	614.95	711.64	710.45
694.76	659.59	699.60	631.35	705.01	679.53	711.69	651.96
694.82	610.89	699.61	612.81	705.06	660.62	711.84	679.37
694.85	658.40	699.76	557.77	705.13	679.75	711.93	679.37
694.89	665.74	699.81	599.27	705.18	630.59	711.94	648.57
695.04	697.01	699.84	630.85	705.46	553.99	712.07	675.02
695.21	608.96	699.85	667.52	705.65	645.97	712.12	698.92
695.41	587.77	699.86	620.70	705.72	649.70	712.14	626.63
695.49	616.37	700.01	714.08	705.74	637.82	712.48	598.20
695.55	538.73	700.09	595.54	705.83	631.96	712.59	662.90
695.68	636.38	700.20	648.46	705.92	645.56	712.88	716.66
695.81	569.66	700.25	642.99	706.13	724.22	713.09	651.52
695.87	642.91	700.47	571.23	706.17	632.32	713.27	643.28
696.01	627.61	700.51	629.10	706.20	629.25	713.31	699.68
696.08	637.27	700.52	665.42	706.24	593.09	713.38	581.16
696.26	717.51	700.57	674.55	706.40	669.91	713.42	675.73
696.27	694.04	700.68	657.41	706.44	685.45	713.53	667.91
696.30	678.23	700.75	648.27	706.68	679.76	713.62	646.89
696.38	663.34	700.76	649.76	706.86	644.27	713.64	613.05
696.41	651.32	700.88	701.09	706.88	663.66	713.75	662.71
696.43	648.65	701.01	634.01	707.06	652.08	713.81	668.97
696.57	605.22	701.02	669.64	707.22	528.53	714.09	644.33
696.61	573.54	701.19	680.02	707.25	662.12	714.22	611.45
696.64	679.73	701.22	591.22	707.28	674.86	714.23	644.46

PISA Score	New Score	PISA Score	New Score	PISA Score	New Score	PISA Score	New Score
714.24	733.47	722.37	751.14	734.58	545.90	756.40	665.15
714.45	610.21	722.43	542.72	734.72	723.84	756.90	699.36
714.64	584.21	722.75	667.44	734.89	657.36	758.15	610.82
714.67	709.77	723.18	661.60	735.03	685.87	759.40	558.94
714.72	698.07	723.19	691.39	735.10	649.39	760.07	677.32
714.84	667.32	723.30	706.06	735.24	741.39	761.12	621.67
714.91	653.01	723.45	570.30	735.76	592.34	761.34	715.12
715.01	633.25	723.91	683.81	736.18	660.07	761.38	661.41
715.29	648.26	724.15	598.87	736.57	715.55	761.51	728.04
715.30	623.41	724.18	574.99	736.61	680.60	762.21	674.60
715.31	660.84	724.70	652.45	737.47	711.62	762.34	722.23
715.35	658.86	724.81	687.66	737.81	731.45	763.60	688.94
715.36	679.48	724.87	675.35	738.11	680.89	765.56	697.70
715.70	594.50	724.88	657.84	738.21	743.12	765.60	697.88
715.78	635.27	724.99	726.48	738.49	575.62	765.79	741.51
715.82	658.19	725.17	668.12	738.51	685.52	766.55	674.35
715.93	635.46	725.53	663.91	738.78	698.88	767.21	695.52
715.96	692.52	725.86	695.96	739.41	720.19	767.24	724.16
715.98	642.25	725.88	623.04	740.03	687.71	768.03	635.80
716.04	634.34	725.99	547.46	740.18	706.71	768.59	787.23
716.30	698.54	726.19	690.50	740.25	710.38	770.59	658.91
716.32	640.78	726.20	611.98	740.50	692.10	771.65	690.80
716.35	689.80	726.25	675.05	740.55	760.58	771.73	725.59
716.38	676.12	726.47	683.47	741.08	677.52	771.85	666.72
716.77	660.10	726.75	677.80	741.21	659.69	775.15	693.65
716.90	663.74	726.88	494.88	741.27	644.23	776.27	661.30
717.12	664.18	727.01	647.88	741.41	551.24	776.57	799.36
717.36	695.51	727.17	664.23	741.56	732.37	777.18	697.69
717.42	741.40	727.33	685.27	742.00	679.98	778.74	700.91
717.50	602.99	727.34	640.71	742.04	681.65	778.97	645.00
717.94	568.12	727.54	711.19	743.67	615.86	779.36	606.06
718.08	738.75	727.59	635.99	743.77	672.46	782.19	699.28
718.25	562.61	728.17	638.86	743.83	688.61	782.66	725.73
718.54	649.82	728.28	648.41	744.45	739.30	785.51	699.64
718.84	668.25	728.52	564.31	744.46	633.64	786.83	744.45
719.22	703.96	728.62	650.63	745.17	684.56	789.88	710.02
719.23	669.10	729.01	568.66	745.78	746.34	791.38	698.30
719.35	564.03	729.09	613.64	746.06	660.53	793.28	714.08
719.46	689.45	729.52	687.50	747.20	684.85	793.70	671.16
719.50	627.81	729.53	731.50	748.09	719.71	793.86	622.88
719.58	694.38	730.11	658.05	748.32	630.48	794.05	572.39
719.62	668.48	730.15	657.11	748.33	712.61	795.82	667.97
719.90	678.46	730.51	643.66	748.53	680.95	796.10	672.82
719.93	557.10	730.55	649.70	748.61	604.37	799.02	699.27
719.99	646.53	730.59	729.14	749.98	644.06	800.41	695.21
720.25	748.93	730.93	644.14	750.31	678.54	803.37	732.27
720.30	683.55	731.08	554.71	750.81	713.78	803.80	674.26
720.36	688.67	731.22	680.15	750.84	683.39	807.12	734.26
720.37	639.71	731.42	685.19	750.85	578.72	807.96	626.68
720.66	664.33	731.62	673.40	751.23	738.65	816.15	577.04
720.72	700.28	731.86	715.10	751.64	703.79	816.39	751.93
720.89	678.42	732.19	715.06	753.06	648.67	821.83	714.95
721.08	699.89	732.46	736.77	753.72	691.88	823.02	677.32
721.20	750.75	733.04	643.48	753.96	711.63	823.99	702.11
721.25	656.41	733.24	678.33	754.04	584.49	826.62	572.39
721.29	734.26	733.51	642.49	754.62	664.25	828.14	609.25
721.35	653.34	733.75	573.76	754.85	551.13		
721.48	644.24	734.28	638.75	755.24	696.05		
722.02	693.61	734.38	683.70	755.57	649.90		

Table G.2

## Original PCAP score to new score

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
148.59	189.45	227.58	268.03	242.65	271.57	254.35	285.60
174.12	209.03	228.66	264.73	243.12	254.73	254.55	277.59
177.25	209.75	228.73	252.92	243.92	262.53	254.63	275.15
185.03	221.79	228.82	240.90	244.31	270.49	254.78	279.52
187.18	218.13	229.23	252.96	245.00	253.84	254.80	275.27
189.87	218.22	229.64	256.83	245.48	255.44	254.81	289.58
191.35	227.51	229.68	246.25	245.56	289.38	254.99	265.34
195.16	219.92	229.70	244.66	245.75	280.81	255.03	307.24
195.80	226.96	230.12	274.23	245.77	270.17	255.08	273.18
199.36	228.79	230.44	248.42	246.01	295.95	255.14	275.46
199.61	213.35	230.58	312.66	246.18	260.07	255.61	263.02
201.15	231.72	231.07	250.80	246.43	283.73	255.63	293.23
201.58	240.97	231.90	259.12	246.63	275.66	255.96	271.58
201.61	224.22	231.92	265.74	247.02	265.16	255.99	285.61
202.71	226.51	232.21	261.29	247.38	295.94	256.02	271.04
202.89	222.57	232.99	248.41	247.39	278.53	256.39	266.54
203.88	241.56	233.73	248.89	247.88	282.07	256.46	297.72
204.27	234.87	233.88	270.00	247.89	251.81	256.54	281.85
205.34	219.16	234.27	250.48	247.90	260.57	256.59	290.63
206.60	240.80	234.33	261.07	247.99	260.32	256.84	269.21
207.25	241.55	234.80	271.74	248.32	293.22	256.91	255.55
208.44	228.16	234.81	239.24	248.63	259.34	256.93	276.16
208.94	244.66	235.14	247.66	248.94	276.88	256.96	278.08
210.93	238.72	235.73	239.25	249.46	287.71	257.02	265.80
211.54	223.86	235.77	248.37	249.96	271.09	257.60	290.24
213.32	258.09	236.34	270.99	249.99	298.33	257.80	264.29
213.99	233.59	236.44	252.80	251.19	288.22	257.89	274.68
214.42	248.61	236.51	261.84	251.24	284.95	258.05	276.00
214.90	229.69	236.61	289.08	251.28	267.53	258.08	281.82
215.07	229.06	236.77	252.97	251.33	283.23	258.17	310.49
215.44	242.43	236.85	260.33	251.61	278.21	258.34	287.46
215.90	263.89	236.87	269.93	251.65	280.26	258.60	273.79
217.10	229.82	237.07	276.00	251.66	254.00	258.62	295.54
217.23	251.64	237.88	267.87	251.74	291.46	258.65	282.85
219.16	254.08	238.15	257.16	251.94	262.75	258.68	283.09
219.22	226.86	238.32	265.39	251.99	256.88	258.76	278.22
219.56	248.60	238.52	264.01	252.00	272.22	258.86	286.19
219.99	229.52	238.57	273.28	252.14	287.87	258.93	289.63
220.03	232.91	238.63	252.63	252.40	281.83	258.98	279.50
220.27	254.49	238.85	280.99	252.41	274.99	259.12	272.64
220.34	224.78	239.52	290.26	252.58	272.20	259.14	278.81
220.82	235.43	239.68	282.83	252.74	261.01	259.21	292.88
220.86	248.56	239.86	262.28	253.08	272.93	259.35	301.10
221.60	268.24	239.95	275.36	253.13	285.41	259.43	270.14
222.42	248.83	240.00	260.39	253.22	268.19	259.49	291.90
222.49	233.01	240.34	268.89	253.28	289.54	259.59	284.52
222.61	232.98	240.60	274.87	253.59	262.14	259.63	285.11
223.83	221.94	240.94	286.43	253.60	282.37	259.67	267.12
223.94	249.90	241.45	258.76	253.73	277.72	259.89	276.25
224.07	265.37	241.52	269.53	253.79	265.42	260.04	294.85
224.24	281.78	241.70	263.52	253.80	287.63	260.42	280.99
225.24	255.69	241.92	244.89	253.85	292.68	260.45	284.88
225.47	232.77	242.00	274.47	253.87	277.71	260.64	293.71
227.24	265.90	242.19	249.91	254.08	262.06	260.73	288.52
227.56	261.74	242.21	260.20	254.09	306.34	261.10	281.14

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
261.23	291.30	268.44	297.44	273.79	313.81	278.55	305.09
261.42	290.86	268.49	298.55	273.92	297.57	278.66	318.09
261.54	288.96	268.90	291.24	274.00	325.16	278.70	305.26
261.79	266.75	268.96	294.86	274.01	293.42	278.73	304.87
261.88	281.06	269.08	308.04	274.11	285.56	279.16	306.72
262.04	331.92	269.19	284.09	274.13	307.49	279.18	319.53
262.11	294.32	269.23	285.78	274.18	290.68	279.23	337.50
262.15	284.32	269.29	294.62	274.35	307.11	279.24	304.32
262.52	296.12	269.32	289.24	274.50	311.52	279.25	329.11
262.54	277.74	269.33	275.06	274.60	298.29	279.26	309.55
262.68	272.02	269.41	307.39	274.66	328.10	279.30	276.72
262.84	304.42	269.44	297.20	274.72	297.40	279.31	310.34
262.85	273.16	269.59	310.79	274.76	329.37	279.40	301.92
262.89	294.65	269.60	299.56	274.84	276.44	279.42	294.70
263.01	299.03	269.63	300.05	275.08	312.62	279.47	354.62
263.06	299.75	269.83	286.52	275.11	301.33	279.62	281.09
263.20	285.07	269.88	344.65	275.24	291.20	279.63	297.17
263.70	295.74	269.93	320.29	275.30	285.73	279.66	311.03
263.80	312.98	270.14	284.28	275.32	298.14	279.75	292.35
263.85	283.58	270.22	305.37	275.41	316.94	280.12	339.72
264.07	331.84	270.23	321.74	275.45	314.55	280.18	320.38
264.08	283.67	270.29	304.79	275.69	310.11	280.19	294.87
264.09	285.92	270.46	321.74	275.70	290.93	280.20	298.38
264.43	269.27	270.58	272.84	275.74	329.76	280.39	345.05
264.44	294.15	270.63	304.57	275.81	286.84	280.44	305.48
264.49	307.92	270.77	311.80	275.89	289.38	280.50	303.24
264.59	311.56	270.78	278.23	276.02	306.15	280.56	321.75
264.78	303.03	270.85	302.95	276.03	304.32	280.66	312.40
264.80	287.40	271.17	308.57	276.22	280.38	280.68	307.49
264.81	298.16	271.34	311.45	276.25	316.58	280.89	319.61
265.05	289.24	271.36	293.39	276.36	306.46	280.97	326.86
265.13	296.32	271.47	315.68	276.37	314.52	281.06	327.26
265.20	292.81	271.54	294.72	276.41	313.03	281.11	300.17
265.45	309.15	271.72	310.84	276.44	300.86	281.12	303.62
265.79	292.83	271.76	288.39	276.46	307.82	281.23	328.66
265.82	283.96	271.85	295.34	276.52	286.00	281.29	294.99
265.89	287.38	271.94	273.20	276.56	285.27	281.31	289.03
265.94	291.99	271.98	283.96	276.68	296.66	281.50	289.26
266.10	283.25	272.01	298.85	276.74	305.55	281.70	295.16
266.32	282.33	272.08	309.64	276.93	319.13	281.71	306.45
266.62	277.38	272.14	273.68	277.00	311.99	281.86	297.14
266.63	297.32	272.17	313.69	277.04	312.58	281.87	322.46
266.74	300.37	272.21	284.90	277.15	307.01	281.96	302.32
266.86	289.01	272.29	299.46	277.21	307.28	281.98	581.27
266.91	303.06	272.33	315.91	277.41	307.71	282.09	324.80
266.92	313.09	272.34	281.40	277.52	314.87	282.21	294.97
266.96	302.56	272.46	292.93	277.54	300.09	282.22	342.92
267.14	325.23	272.49	310.45	277.71	309.34	282.25	309.75
267.27	305.49	272.51	305.51	277.87	298.44	282.35	312.12
267.33	316.10	272.54	281.74	277.92	296.87	282.40	304.17
267.45	284.13	273.00	295.84	277.94	305.63	282.67	308.02
267.68	301.24	273.29	286.23	277.99	301.01	282.68	308.92
267.78	293.69	273.31	307.81	278.02	318.76	282.73	305.47
267.93	282.40	273.36	308.91	278.16	288.91	282.74	299.27
267.99	313.20	273.40	289.04	278.19	289.30	282.77	312.33
268.08	307.19	273.51	321.02	278.28	328.31	282.78	308.63
268.23	279.05	273.64	302.63	278.37	279.64	282.95	580.79
268.36	299.48	273.71	312.76	278.38	310.91	282.97	299.97
268.37	287.96	273.73	282.56	278.40	300.62	283.12	302.01
268.39	297.74	273.75	294.84	278.50	323.67	283.21	309.50

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
283.22	333.36	288.53	304.22	292.68	352.76	296.22	316.68
283.30	307.86	288.60	320.93	292.75	332.11	296.24	344.90
283.35	318.92	288.75	325.11	292.81	300.63	296.37	323.93
283.45	303.74	288.88	307.05	292.82	321.15	296.38	330.81
283.46	289.66	288.96	317.54	292.91	305.44	296.43	309.73
283.62	333.00	289.09	293.07	293.04	327.56	296.72	326.15
283.77	313.78	289.14	314.86	293.11	308.85	296.78	320.82
284.08	303.14	289.16	348.75	293.13	320.63	296.82	320.02
284.25	311.95	289.27	319.77	293.15	304.47	296.92	313.56
284.49	334.72	289.32	288.64	293.26	300.57	296.94	344.13
284.56	340.97	289.38	309.49	293.31	347.96	297.07	339.58
284.61	313.70	289.41	295.81	293.43	324.51	297.21	315.98
284.83	322.49	289.43	299.25	293.48	328.77	297.38	319.11
284.95	298.12	289.44	285.46	293.49	298.73	297.40	349.63
284.97	301.86	289.51	325.19	293.55	326.03	297.47	314.45
284.99	294.69	289.56	328.80	293.63	325.28	297.51	303.46
285.04	313.26	289.58	312.35	293.68	307.56	297.61	300.94
285.12	320.14	289.65	299.27	293.82	304.57	297.62	337.89
285.13	295.26	289.88	309.42	293.85	323.40	297.75	310.73
285.38	313.35	289.91	298.09	293.86	323.89	297.80	310.63
285.39	306.94	289.95	299.44	293.93	306.33	297.94	317.10
285.62	294.11	289.98	310.96	294.06	331.42	297.96	297.51
285.67	284.45	290.00	304.34	294.08	302.46	297.97	309.88
285.71	332.13	290.07	314.06	294.12	321.86	298.06	330.31
285.92	307.86	290.11	306.23	294.16	321.40	298.21	302.53
285.96	306.89	290.19	326.21	294.20	297.14	298.33	303.41
285.97	299.32	290.27	303.17	294.32	308.56	298.36	340.82
286.01	306.57	290.28	304.45	294.34	302.89	298.37	304.67
286.06	304.02	290.40	293.52	294.37	308.75	298.45	328.57
286.07	293.31	290.41	348.06	294.54	299.76	298.58	312.35
286.09	312.85	290.43	295.86	294.55	311.37	298.59	313.19
286.15	314.96	290.46	326.70	294.57	336.03	298.67	313.03
286.22	289.66	290.63	304.57	294.64	320.31	298.71	323.54
286.34	299.07	290.65	316.48	294.93	321.93	298.89	337.66
286.63	300.62	290.87	294.41	294.96	304.04	298.98	349.88
286.82	322.22	290.97	329.65	295.01	351.29	299.00	329.98
286.85	292.20	290.99	295.97	295.02	321.85	299.05	320.59
286.90	316.79	291.10	301.63	295.07	317.95	299.08	316.70
286.93	325.63	291.24	303.33	295.09	324.69	299.09	313.34
286.96	318.51	291.33	308.59	295.22	324.08	299.22	313.42
287.08	291.58	291.47	339.87	295.27	317.61	299.24	314.68
287.11	314.54	291.52	323.11	295.35	301.60	299.25	323.60
287.12	326.27	291.58	291.24	295.36	330.35	299.47	417.34
287.22	321.64	291.61	318.31	295.39	324.14	299.54	337.90
287.24	302.54	291.64	317.02	295.46	352.39	299.62	335.79
287.30	297.04	291.72	321.10	295.47	321.77	299.69	330.79
287.40	304.96	291.83	302.53	295.66	313.51	299.77	311.22
287.51	330.58	291.86	297.66	295.68	334.99	299.80	318.13
287.64	319.42	291.98	305.33	295.69	324.65	299.88	304.65
287.68	301.50	291.99	309.55	295.76	300.15	299.98	317.54
287.70	328.18	292.05	329.56	295.83	307.17	300.15	309.06
287.77	307.95	292.08	316.79	295.85	324.08	300.16	317.34
287.85	342.38	292.09	332.13	295.87	307.39	300.17	318.18
288.26	301.86	292.13	314.70	295.89	324.71	300.37	349.55
288.31	335.07	292.14	333.05	295.91	322.83	300.39	332.04
288.37	301.55	292.27	324.61	295.99	334.39	300.40	325.37
288.40	324.14	292.30	298.97	296.04	325.43	300.47	350.09
288.45	335.44	292.37	312.30	296.10	315.17	300.56	332.05
288.47	300.27	292.45	318.40	296.12	309.23	300.74	304.14
288.50	297.82	292.61	307.33	296.15	328.47	300.77	331.37

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
300.82	322.98	304.26	331.33	306.98	314.35	309.23	341.29
300.92	338.41	304.31	307.00	307.06	374.74	309.30	335.52
300.94	330.72	304.44	334.33	307.18	324.90	309.38	331.52
300.95	317.77	304.47	315.33	307.19	339.11	309.44	351.38
301.11	332.38	304.51	337.44	307.20	322.79	309.48	338.54
301.18	340.25	304.53	330.90	307.27	319.84	309.50	330.45
301.29	344.60	304.61	313.64	307.30	328.39	309.58	334.06
301.37	322.51	304.65	320.69	307.31	327.17	309.60	314.49
301.39	338.19	304.66	320.82	307.35	317.65	309.65	316.14
301.47	360.38	304.68	329.84	307.38	345.80	309.73	340.35
301.59	322.89	304.79	306.80	307.39	335.86	309.74	344.72
301.76	299.71	304.82	326.46	307.41	320.92	309.76	341.20
301.79	357.58	304.85	321.03	307.44	335.77	309.83	338.36
301.80	352.53	304.90	348.97	307.49	319.26	309.88	348.41
301.86	366.21	304.91	337.28	307.63	322.62	309.91	350.46
301.87	302.53	305.00	340.32	307.69	319.58	309.92	329.12
301.89	348.47	305.06	317.75	307.80	331.33	310.01	336.87
301.94	330.81	305.15	362.46	307.81	324.82	310.02	325.12
302.00	346.29	305.19	337.33	307.82	332.61	310.04	316.56
302.02	307.39	305.20	340.59	307.85	337.01	310.05	333.35
302.15	338.11	305.24	332.79	307.87	318.65	310.14	315.05
302.20	299.87	305.26	309.37	307.92	377.58	310.16	331.86
302.26	333.43	305.32	340.30	307.95	321.29	310.18	340.92
302.46	325.12	305.35	364.37	307.96	318.80	310.41	331.01
302.55	328.61	305.36	353.92	307.98	342.99	310.45	309.38
302.60	650.57	305.39	340.64	308.01	304.40	310.49	333.11
302.65	325.48	305.43	315.84	308.02	333.99	310.60	326.49
302.74	307.95	305.50	298.17	308.03	322.59	310.63	340.54
302.75	331.99	305.54	335.85	308.07	314.09	310.69	331.46
302.76	317.98	305.93	320.62	308.12	323.20	310.70	350.48
302.91	336.06	305.96	326.22	308.14	341.24	310.75	329.95
303.09	325.43	306.03	339.15	308.15	346.88	310.79	336.11
303.10	335.03	306.13	328.06	308.27	342.56	310.80	344.98
303.14	310.74	306.14	356.97	308.32	379.38	310.86	327.28
303.25	323.93	306.20	313.39	308.33	332.13	310.87	336.76
303.26	328.44	306.23	310.69	308.36	329.97	310.88	333.81
303.27	311.60	306.29	310.17	308.37	327.01	310.89	330.22
303.32	315.89	306.33	332.53	308.40	304.31	310.92	341.53
303.37	303.69	306.38	331.91	308.41	326.02	310.94	327.44
303.38	319.60	306.41	357.19	308.44	380.55	310.96	324.02
303.45	331.11	306.44	353.39	308.52	324.75	310.99	319.01
303.48	327.80	306.48	325.37	308.58	331.74	311.08	347.75
303.49	338.00	306.54	350.95	308.62	337.86	311.09	325.39
303.52	326.62	306.56	322.37	308.63	362.07	311.10	342.31
303.53	327.06	306.57	332.64	308.67	323.17	311.11	331.16
303.57	324.15	306.61	310.81	308.71	323.86	311.16	349.35
303.58	320.94	306.66	330.29	308.77	325.25	311.28	325.01
303.61	334.11	306.67	331.85	308.78	331.49	311.29	332.36
303.64	319.89	306.68	352.23	308.86	315.34	311.38	356.16
303.76	326.26	306.69	335.65	308.90	338.20	311.41	327.55
303.78	328.11	306.73	346.48	308.93	355.73	311.46	330.84
303.85	316.85	306.79	341.57	308.94	306.05	311.48	374.11
303.91	322.07	306.81	335.43	308.97	316.53	311.49	325.04
303.99	322.15	306.82	327.19	309.01	314.37	311.52	338.05
304.03	333.41	306.83	329.22	309.05	327.99	311.58	331.69
304.05	340.97	306.90	344.84	309.09	313.38	311.66	357.20
304.10	343.80	306.91	325.22	309.11	340.60	311.68	329.79
304.21	368.83	306.92	317.46	309.13	327.04	311.69	335.59
304.24	316.24	306.93	374.58	309.15	331.41	311.71	331.13
304.25	336.05	306.97	339.10	309.22	326.08	311.75	335.99

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
311.86	309.14	314.66	345.71	317.42	341.16	320.11	337.84
311.88	331.61	314.73	333.84	317.46	336.09	320.13	384.51
311.96	364.83	314.75	337.77	317.47	329.73	320.26	358.78
311.98	352.02	314.81	332.65	317.48	332.91	320.29	336.94
312.00	319.73	314.82	348.05	317.52	336.69	320.31	343.04
312.04	331.86	314.84	358.52	317.53	345.73	320.37	343.94
312.12	326.88	314.86	346.00	317.54	327.75	320.42	338.56
312.13	328.92	314.89	331.11	317.58	320.69	320.43	352.58
312.25	335.35	314.90	344.84	317.60	335.65	320.47	344.51
312.31	316.38	314.94	349.90	317.62	360.34	320.51	340.86
312.32	341.31	315.05	318.15	317.71	344.26	320.55	326.74
312.34	338.41	315.09	334.82	317.74	324.85	320.57	347.97
312.42	320.64	315.18	322.93	317.81	356.70	320.62	341.92
312.45	341.43	315.19	343.28	317.83	392.97	320.67	356.14
312.52	325.90	315.23	343.48	317.87	345.48	320.68	361.88
312.53	341.54	315.30	314.47	317.90	334.71	320.70	339.80
312.56	316.15	315.31	322.21	317.94	336.60	320.71	337.59
312.59	330.86	315.32	332.19	318.01	351.86	320.72	356.39
312.65	318.87	315.37	314.15	318.18	357.41	320.80	341.86
312.71	328.97	315.44	330.30	318.22	328.30	320.81	349.75
312.72	305.89	315.52	340.32	318.27	328.69	320.85	342.71
312.79	335.76	315.65	340.57	318.30	342.63	320.86	339.48
312.89	337.71	315.68	322.57	318.40	348.73	320.87	350.77
312.92	312.30	315.69	319.62	318.41	326.88	320.89	343.30
312.93	314.12	315.79	310.11	318.42	344.36	320.90	323.65
313.03	339.99	315.81	317.62	318.55	318.29	320.92	351.90
313.04	340.86	315.86	340.66	318.65	361.74	320.95	343.65
313.05	325.61	315.88	331.90	318.67	348.28	320.97	334.85
313.07	336.39	315.89	362.87	318.75	347.97	320.98	354.87
313.14	362.77	316.04	341.40	318.77	348.14	321.12	345.04
313.15	330.83	316.12	331.22	318.85	321.29	321.13	335.23
313.19	311.61	316.13	329.08	318.86	327.86	321.14	331.50
313.20	320.63	316.14	329.82	318.89	342.82	321.19	358.80
313.26	343.42	316.15	337.95	318.96	335.62	321.20	347.00
313.27	346.77	316.21	334.91	318.98	353.74	321.34	351.54
313.34	350.38	316.24	319.56	318.99	319.15	321.35	340.39
313.35	343.20	316.26	339.00	319.02	329.02	321.37	358.69
313.36	327.05	316.30	354.87	319.05	316.42	321.39	348.90
313.44	339.87	316.36	372.64	319.06	329.40	321.42	378.17
313.45	329.25	316.38	342.11	319.08	349.05	321.44	333.73
313.51	325.04	316.43	332.45	319.10	331.21	321.54	340.92
313.52	360.39	316.49	334.86	319.13	338.33	321.61	319.88
313.71	335.75	316.53	338.61	319.17	349.72	321.63	345.56
313.76	329.58	316.56	355.65	319.27	339.20	321.68	385.89
313.80	333.05	316.58	331.37	319.29	352.11	321.71	340.05
313.87	342.24	316.70	340.79	319.32	343.19	321.73	358.48
313.88	308.52	316.71	342.76	319.33	343.87	321.79	347.60
314.02	330.00	316.79	356.26	319.43	333.33	321.82	336.61
314.08	329.25	316.80	327.01	319.51	348.87	321.88	329.74
314.13	343.54	316.86	341.96	319.62	317.75	321.89	348.09
314.14	347.17	316.99	342.42	319.64	344.80	322.00	389.60
314.25	337.96	317.00	333.97	319.69	349.26	322.01	343.26
314.30	329.11	317.03	359.94	319.71	356.83	322.03	332.42
314.36	323.49	317.11	344.01	319.83	325.84	322.04	343.98
314.40	329.08	317.17	320.52	319.86	347.52	322.05	338.39
314.49	359.74	317.19	336.96	319.89	326.81	322.08	342.65
314.52	331.33	317.23	346.24	319.92	349.21	322.09	359.02
314.57	336.99	317.28	348.82	319.96	347.51	322.15	332.17
314.59	332.52	317.30	335.52	319.98	365.48	322.16	358.82
314.64	337.88	317.36	338.22	320.01	329.63	322.21	328.31

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
322.24	368.67	324.30	365.99	326.52	352.21	328.56	350.15
322.27	310.70	324.34	326.49	326.54	352.46	328.57	378.54
322.29	332.73	324.41	341.72	326.55	340.65	328.58	365.67
322.39	344.59	324.45	324.13	326.58	338.58	328.65	332.94
322.41	338.70	324.51	352.26	326.61	335.73	328.68	343.56
322.43	362.30	324.57	343.87	326.66	341.00	328.69	387.15
322.57	339.03	324.59	350.77	326.68	335.43	328.71	354.63
322.58	348.89	324.63	368.59	326.70	358.00	328.75	407.07
322.59	346.99	324.64	333.02	326.72	356.52	328.78	361.29
322.60	359.79	324.66	347.73	326.75	333.53	328.85	330.95
322.62	336.82	324.75	331.93	326.78	337.42	328.94	333.55
322.64	349.17	324.76	367.05	326.91	358.97	328.98	349.52
322.66	342.54	324.77	338.81	326.94	353.40	329.15	351.97
322.67	334.07	324.83	322.44	327.03	349.71	329.18	348.90
322.68	326.97	324.87	346.87	327.08	343.81	329.24	329.88
322.71	340.99	324.91	346.51	327.12	367.72	329.25	344.80
322.78	338.58	324.94	329.10	327.17	345.61	329.30	354.36
322.82	348.37	325.09	353.81	327.19	360.30	329.31	350.28
322.83	322.76	325.13	347.77	327.20	372.31	329.32	348.17
322.92	359.10	325.14	316.35	327.22	356.81	329.36	360.86
322.95	344.11	325.20	582.67	327.28	337.18	329.38	346.44
323.07	345.61	325.21	338.90	327.29	353.92	329.40	363.16
323.10	343.76	325.24	336.92	327.30	385.94	329.43	350.34
323.13	362.26	325.25	351.28	327.33	347.57	329.44	330.68
323.14	350.11	325.31	347.35	327.34	356.54	329.45	344.38
323.16	346.45	325.34	349.96	327.36	341.13	329.46	334.04
323.33	344.34	325.36	336.79	327.39	344.13	329.47	363.81
323.39	326.32	325.43	352.67	327.44	373.94	329.50	362.06
323.41	359.70	325.47	350.61	327.47	394.05	329.54	350.53
323.42	309.03	325.48	360.92	327.55	343.61	329.55	340.71
323.47	360.96	325.52	345.63	327.58	583.42	329.57	347.33
323.49	333.59	325.63	326.39	327.66	352.46	329.62	356.32
323.50	340.35	325.64	336.16	327.69	310.23	329.64	355.07
323.52	343.52	325.68	350.92	327.70	333.69	329.68	361.56
323.55	340.76	325.73	337.94	327.75	336.14	329.70	346.83
323.56	347.21	325.74	351.83	327.84	357.53	329.76	365.37
323.58	353.48	325.79	346.51	327.86	371.73	329.81	346.68
323.59	348.78	325.82	344.36	327.87	352.85	329.84	331.56
323.62	344.13	325.86	350.49	327.88	342.49	329.89	338.40
323.65	332.53	325.87	343.08	327.89	332.25	329.90	352.69
323.66	376.57	325.91	344.76	327.93	331.97	329.93	355.55
323.67	349.32	325.92	351.87	327.94	355.57	329.94	348.82
323.68	318.82	325.95	324.81	327.95	360.48	329.96	350.18
323.70	356.72	325.96	333.69	327.97	339.81	329.99	357.82
323.72	340.02	325.97	342.83	327.99	335.50	330.02	350.73
323.76	328.06	326.00	368.32	328.00	367.39	330.08	334.28
323.81	355.98	326.08	336.36	328.09	367.08	330.09	349.07
323.87	343.23	326.10	334.44	328.11	361.50	330.19	319.92
323.90	351.54	326.12	345.39	328.12	330.66	330.22	349.34
323.99	331.08	326.20	361.94	328.13	331.18	330.24	339.65
324.04	345.75	326.25	327.54	328.16	345.33	330.25	332.11
324.15	351.41	326.28	356.16	328.28	354.23	330.28	349.03
324.18	322.67	326.30	360.37	328.29	333.34	330.29	366.44
324.19	349.99	326.31	343.49	328.32	341.16	330.32	345.57
324.20	351.69	326.33	346.20	328.35	345.64	330.33	325.88
324.21	356.22	326.34	337.00	328.43	344.24	330.34	333.53
324.22	326.73	326.36	333.00	328.45	344.01	330.35	340.39
324.23	350.25	326.38	343.23	328.48	342.08	330.38	335.43
324.28	383.97	326.40	390.72	328.51	353.59	330.40	357.94
324.29	350.92	326.47	330.04	328.52	346.52	330.48	363.41



PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
330.54	356.53	332.78	347.63	334.72	381.66	336.56	357.01
330.55	343.61	332.80	338.44	334.73	367.13	336.58	347.39
330.57	351.81	332.82	361.79	334.74	335.58	336.67	353.25
330.67	347.86	332.86	367.39	334.76	356.05	336.68	372.20
330.70	366.26	332.87	331.60	334.78	357.89	336.69	354.62
330.74	342.74	332.90	404.72	334.82	363.31	336.74	363.58
330.75	352.50	332.91	351.32	334.83	353.72	336.76	343.05
330.80	365.69	332.94	360.27	334.88	356.84	336.79	364.84
330.83	346.06	332.97	358.72	334.90	351.80	336.82	329.11
330.86	336.68	333.06	374.56	334.91	367.22	336.86	370.01
330.92	361.40	333.07	345.14	334.97	355.78	336.87	351.06
330.94	355.63	333.09	352.04	335.03	361.31	336.88	340.55
331.00	335.64	333.11	390.84	335.05	349.55	336.95	351.34
331.01	385.76	333.23	354.32	335.08	357.32	337.04	341.96
331.02	364.89	333.29	374.31	335.09	348.65	337.09	346.90
331.04	350.34	333.32	374.64	335.15	348.20	337.10	375.62
331.10	355.26	333.34	355.23	335.22	363.07	337.11	341.05
331.12	349.74	333.41	387.06	335.23	337.73	337.13	368.57
331.14	363.96	333.50	338.11	335.27	355.08	337.14	362.18
331.25	345.50	333.55	336.97	335.28	344.27	337.15	341.86
331.27	356.46	333.59	342.51	335.30	366.63	337.21	363.00
331.32	349.15	333.61	355.77	335.34	365.25	337.22	355.16
331.44	358.46	333.65	345.98	335.36	365.47	337.24	373.18
331.45	370.14	333.70	356.05	335.37	343.88	337.25	398.37
331.53	344.36	333.73	350.79	335.40	353.16	337.31	378.05
331.56	352.51	333.79	345.69	335.44	382.19	337.41	377.55
331.58	360.71	333.82	352.36	335.45	356.75	337.43	349.50
331.61	350.13	333.84	364.36	335.48	330.62	337.44	363.41
331.62	339.78	333.85	377.47	335.49	358.05	337.53	392.90
331.73	332.14	333.89	366.43	335.57	373.03	337.56	356.30
331.76	348.87	333.95	361.64	335.60	339.16	337.59	365.65
331.78	358.03	333.96	363.75	335.65	346.97	337.61	353.00
331.81	354.37	333.97	360.15	335.66	361.36	337.63	356.14
331.85	375.23	334.00	339.81	335.67	360.06	337.65	351.18
331.87	364.97	334.04	364.73	335.70	345.78	337.68	364.28
331.90	349.95	334.06	371.85	335.72	342.33	337.69	361.51
331.95	357.46	334.08	356.84	335.74	361.71	337.70	373.39
331.97	350.82	334.12	331.13	335.81	340.96	337.76	363.67
332.02	373.90	334.13	349.54	335.83	354.76	337.82	360.48
332.08	337.60	334.16	343.73	335.90	381.38	337.83	358.25
332.13	342.32	334.17	342.12	335.92	357.40	337.85	360.27
332.15	365.35	334.19	338.17	335.97	353.97	337.86	355.75
332.27	336.96	334.20	347.13	336.00	357.94	337.88	375.11
332.28	372.17	334.28	362.80	336.03	371.56	337.89	349.65
332.29	361.53	334.30	363.50	336.05	345.58	337.94	336.20
332.30	351.64	334.31	338.76	336.11	400.61	337.96	353.79
332.33	335.07	334.33	342.20	336.13	354.99	337.97	347.51
332.34	385.29	334.35	359.96	336.15	344.57	338.01	364.95
332.36	351.51	334.38	357.86	336.17	352.54	338.03	385.82
332.37	354.57	334.40	341.24	336.20	368.25	338.16	363.44
332.38	331.20	334.41	363.81	336.23	359.25	338.17	372.34
332.39	361.69	334.45	360.13	336.24	349.40	338.18	375.18
332.41	330.50	334.55	356.14	336.31	381.18	338.21	370.02
332.42	359.65	334.57	382.64	336.33	361.60	338.22	379.35
332.43	355.91	334.59	341.34	336.35	359.20	338.25	393.26
332.51	337.29	334.64	356.55	336.37	357.00	338.26	360.29
332.55	369.43	334.65	368.29	336.48	360.34	338.30	336.78
332.66	366.10	334.66	385.77	336.49	358.17	338.31	360.28
332.68	339.84	334.68	361.67	336.51	358.48	338.33	354.18
332.69	343.39	334.70	361.25	336.55	345.31	338.34	364.12

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
338.37	365.73	339.95	364.27	341.46	370.62	343.23	365.76
338.40	352.37	339.97	386.75	341.48	358.16	343.27	368.44
338.43	365.10	339.98	360.62	341.49	348.60	343.32	352.36
338.46	365.06	340.03	363.16	341.54	374.69	343.35	366.39
338.48	355.75	340.10	355.67	341.55	380.11	343.39	362.08
338.55	368.82	340.12	373.62	341.58	352.93	343.40	372.51
338.56	370.88	340.14	362.91	341.60	375.07	343.41	341.65
338.57	373.53	340.24	369.55	341.64	365.76	343.42	367.44
338.58	344.56	340.30	351.17	341.66	352.25	343.43	349.66
338.62	362.13	340.31	334.80	341.69	361.39	343.44	368.40
338.63	361.97	340.33	372.16	341.72	363.94	343.47	382.07
338.65	367.94	340.34	374.77	341.76	358.21	343.49	375.70
338.67	350.99	340.36	375.04	341.77	353.45	343.51	369.56
338.70	342.83	340.37	383.31	341.79	356.86	343.55	359.37
338.73	369.05	340.39	364.04	341.86	346.94	343.56	364.88
338.77	340.46	340.41	352.20	341.91	357.85	343.57	367.06
338.81	361.07	340.42	351.67	341.95	356.66	343.58	344.44
338.82	338.92	340.43	380.50	341.96	369.75	343.61	374.42
338.98	342.97	340.44	378.35	341.99	371.84	343.65	355.31
339.00	360.55	340.46	376.89	342.03	368.76	343.70	343.68
339.01	625.42	340.47	349.28	342.06	336.59	343.71	354.39
339.02	351.41	340.50	361.75	342.10	361.83	343.73	366.64
339.03	379.36	340.51	354.66	342.11	359.73	343.78	367.63
339.04	353.56	340.52	343.82	342.14	359.18	343.79	363.02
339.05	359.78	340.53	359.82	342.15	379.73	343.81	374.90
339.12	367.80	340.54	355.97	342.17	361.23	343.86	376.08
339.14	349.34	340.59	360.45	342.22	354.62	343.90	338.46
339.15	347.91	340.65	367.51	342.26	375.43	343.91	354.72
339.16	362.11	340.66	357.09	342.27	375.01	343.99	350.19
339.19	356.17	340.68	356.02	342.30	362.44	344.01	363.08
339.21	353.32	340.71	372.87	342.33	373.68	344.02	340.19
339.22	360.28	340.79	361.90	342.38	362.81	344.04	372.04
339.26	338.32	340.80	362.94	342.44	339.35	344.10	363.65
339.27	385.83	340.83	376.31	342.49	376.06	344.14	366.00
339.28	377.18	340.84	359.61	342.51	389.13	344.19	373.46
339.31	351.56	340.85	362.85	342.55	383.05	344.22	406.93
339.45	346.58	340.86	363.78	342.57	378.11	344.25	375.95
339.46	405.12	340.88	371.67	342.60	360.06	344.28	373.97
339.48	350.88	340.89	341.05	342.63	369.95	344.29	367.47
339.50	364.80	340.95	345.49	342.64	355.01	344.30	347.96
339.51	380.34	340.96	352.81	342.65	360.28	344.34	354.40
339.55	313.17	341.02	349.05	342.69	361.83	344.43	387.63
339.57	357.66	341.04	337.27	342.74	348.82	344.44	351.94
339.58	364.80	341.06	340.96	342.78	365.43	344.49	368.38
339.64	342.66	341.09	353.13	342.83	359.42	344.50	364.98
339.65	359.34	341.10	356.63	342.84	362.17	344.51	353.72
339.70	352.82	341.11	367.48	342.86	362.75	344.54	344.11
339.75	381.80	341.13	359.22	342.88	375.15	344.56	348.81
339.77	343.98	341.15	350.95	342.90	353.62	344.60	359.51
339.81	364.24	341.16	358.62	342.91	373.50	344.61	376.98
339.82	356.57	341.17	357.43	342.94	358.88	344.65	371.28
339.83	354.67	341.20	357.15	342.99	362.69	344.67	374.19
339.84	348.47	341.24	354.21	343.05	334.03	344.68	372.03
339.87	348.88	341.30	395.29	343.09	355.72	344.69	357.76
339.88	357.12	341.35	371.80	343.10	371.57	344.70	370.55
339.89	347.54	341.36	381.13	343.11	358.60	344.71	356.26
339.90	392.30	341.38	385.74	343.18	353.94	344.72	357.07
339.91	377.48	341.39	362.36	343.19	369.01	344.75	354.71
339.93	329.01	341.41	371.10	343.20	352.75	344.76	400.83
339.94	356.02	341.45	358.08	343.21	356.75	344.78	386.57

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
344.85	362.50	346.33	377.85	347.98	377.25	349.82	363.44
344.86	373.10	346.38	400.30	348.00	380.73	349.88	584.52
344.87	406.80	346.40	348.61	348.03	362.77	349.90	371.11
344.90	378.35	346.42	382.43	348.04	360.98	349.94	362.31
344.93	367.74	346.45	380.51	348.05	361.39	349.99	369.13
344.98	363.28	346.50	371.96	348.10	362.78	350.01	370.26
345.00	358.16	346.51	339.23	348.11	393.37	350.02	373.38
345.04	358.87	346.58	359.60	348.14	395.56	350.07	373.22
345.05	361.25	346.60	357.87	348.16	351.52	350.11	367.59
345.06	361.72	346.62	363.03	348.19	366.68	350.15	340.53
345.08	360.95	346.63	314.20	348.22	367.40	350.19	380.46
345.09	355.05	346.66	359.33	348.24	372.96	350.20	384.97
345.11	358.20	346.67	375.58	348.25	366.59	350.21	377.04
345.12	367.78	346.69	365.81	348.26	342.71	350.23	368.40
345.13	357.34	346.70	388.97	348.31	367.81	350.24	381.35
345.14	372.25	346.74	377.04	348.34	349.16	350.25	369.94
345.18	358.68	346.75	370.72	348.39	381.02	350.26	398.49
345.19	365.09	346.78	350.95	348.42	366.46	350.27	372.71
345.21	372.91	346.79	380.16	348.48	369.23	350.30	373.24
345.22	369.94	346.81	390.77	348.52	398.67	350.34	362.19
345.25	363.25	346.84	377.30	348.53	382.98	350.36	369.96
345.26	333.22	346.86	368.52	348.55	347.63	350.37	367.08
345.27	339.21	346.87	367.10	348.67	363.58	350.39	378.85
345.28	367.60	346.92	373.40	348.71	367.86	350.40	389.08
345.30	351.48	346.94	365.68	348.76	385.15	350.41	384.34
345.35	354.65	346.96	358.94	348.80	361.77	350.42	344.80
345.39	370.67	346.97	351.37	348.83	379.42	350.44	379.78
345.41	342.78	347.01	368.45	348.88	364.69	350.47	345.37
345.45	371.81	347.06	377.06	348.90	359.69	350.49	387.21
345.50	389.81	347.09	340.36	348.95	358.22	350.51	364.20
345.52	355.41	347.10	351.28	348.96	370.73	350.53	393.95
345.57	349.20	347.11	346.38	349.05	350.20	350.55	353.61
345.60	362.53	347.12	396.79	349.08	367.25	350.56	371.29
345.61	366.26	347.14	367.08	349.12	401.86	350.57	367.34
345.63	359.87	347.20	352.25	349.14	367.46	350.61	372.42
345.65	365.66	347.22	385.84	349.15	387.34	350.62	378.01
345.67	356.18	347.26	391.38	349.17	384.38	350.63	359.65
345.69	349.28	347.31	360.38	349.18	386.79	350.64	368.22
345.73	377.57	347.32	372.19	349.21	379.82	350.71	372.27
345.75	585.52	347.37	363.59	349.24	372.85	350.73	397.32
345.80	354.54	347.39	373.13	349.26	376.05	350.74	373.03
345.84	362.66	347.44	365.22	349.27	355.94	350.75	346.01
345.86	371.59	347.46	361.61	349.33	369.39	350.76	381.16
345.87	361.36	347.47	367.19	349.34	367.33	350.77	394.13
345.90	358.53	347.48	369.44	349.36	351.29	350.79	376.85
345.91	379.03	347.58	372.37	349.39	345.77	350.80	364.76
345.92	372.81	347.59	361.30	349.40	357.10	350.81	415.50
345.99	360.54	347.64	388.05	349.44	348.85	350.82	370.81
346.02	383.46	347.68	343.00	349.45	353.08	350.84	391.50
346.03	361.66	347.69	350.49	349.47	350.50	350.97	369.24
346.06	376.35	347.70	408.01	349.50	373.90	350.98	353.85
346.10	342.89	347.72	352.53	349.51	365.52	351.03	369.68
346.12	341.55	347.84	372.09	349.52	363.52	351.07	376.50
346.19	372.39	347.85	376.64	349.59	355.89	351.08	372.33
346.22	360.21	347.87	584.85	349.66	377.66	351.11	372.74
346.24	355.62	347.89	364.89	349.70	376.39	351.13	368.79
346.25	386.60	347.91	368.43	349.72	364.73	351.14	385.34
346.26	371.19	347.92	379.84	349.73	376.42	351.15	348.51
346.27	374.96	347.95	370.85	349.75	372.57	351.17	368.41
346.32	370.80	347.97	376.08	349.80	361.56	351.19	358.36

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
351.20	374.48	352.41	371.91	353.58	353.55	355.07	358.32
351.24	388.75	352.43	376.48	353.61	374.20	355.08	381.20
351.25	391.92	352.44	362.53	353.63	362.12	355.09	358.58
351.26	369.84	352.46	357.84	353.65	371.65	355.10	379.93
351.27	371.52	352.51	373.81	353.70	380.56	355.13	370.11
351.29	374.30	352.53	342.68	353.71	356.82	355.16	360.30
351.31	377.71	352.54	356.31	353.72	377.24	355.17	376.15
351.33	360.48	352.55	351.94	353.74	373.93	355.18	374.00
351.35	370.97	352.56	397.18	353.75	373.68	355.19	364.48
351.36	390.22	352.57	369.50	353.76	376.49	355.21	366.14
351.38	363.83	352.60	378.07	353.79	384.03	355.22	377.23
351.41	375.79	352.61	381.62	353.80	395.28	355.26	378.97
351.42	344.36	352.62	372.65	353.83	356.87	355.29	366.86
351.43	345.61	352.63	350.28	353.84	393.21	355.31	390.04
351.47	362.93	352.66	365.80	353.85	387.64	355.32	361.68
351.48	389.47	352.67	383.04	353.87	346.66	355.44	362.89
351.49	374.92	352.68	372.95	353.89	380.96	355.49	380.95
351.50	372.24	352.73	368.14	353.92	365.24	355.51	358.80
351.51	370.75	352.74	373.19	353.94	375.98	355.54	356.50
351.54	376.18	352.75	385.19	353.98	375.47	355.56	368.53
351.55	371.51	352.78	382.33	354.00	373.72	355.58	381.67
351.57	370.44	352.80	376.50	354.01	365.15	355.65	379.19
351.59	365.15	352.81	371.66	354.02	373.13	355.66	389.11
351.60	384.62	352.83	364.76	354.07	352.51	355.67	370.57
351.62	375.69	352.86	367.45	354.08	380.54	355.70	392.64
351.66	363.84	352.89	347.93	354.14	380.62	355.73	369.13
351.67	375.83	352.92	382.86	354.16	372.48	355.76	378.17
351.68	369.61	352.96	455.57	354.19	376.97	355.77	379.94
351.70	367.39	352.97	370.60	354.20	359.78	355.79	411.29
351.71	374.19	352.98	369.29	354.22	364.50	355.81	390.96
351.78	374.16	352.99	373.31	354.24	388.22	355.82	358.13
351.79	377.57	353.00	349.80	354.25	378.47	355.84	376.43
351.85	378.20	353.01	378.88	354.26	367.08	355.88	365.43
351.86	363.83	353.04	378.28	354.31	347.25	355.92	385.97
351.87	359.47	353.05	362.69	354.32	367.41	355.97	415.23
351.89	379.73	353.08	380.28	354.35	380.99	356.00	374.98
351.90	361.48	353.15	364.58	354.43	412.33	356.02	400.56
351.97	360.59	353.20	365.92	354.45	374.12	356.04	369.16
351.98	371.81	353.21	389.28	354.46	369.05	356.05	400.77
352.00	368.20	353.22	365.16	354.49	383.78	356.08	414.92
352.02	367.88	353.23	366.97	354.51	344.45	356.09	375.62
352.03	372.39	353.25	380.57	354.54	584.56	356.10	370.73
352.06	384.03	353.26	378.74	354.55	378.08	356.12	359.79
352.09	371.48	353.28	373.28	354.56	368.34	356.13	378.28
352.11	376.64	353.29	379.71	354.66	366.43	356.15	361.26
352.13	379.00	353.30	365.41	354.70	364.62	356.16	368.39
352.14	384.48	353.33	360.42	354.71	364.86	356.18	380.67
352.16	371.45	353.34	357.72	354.72	388.49	356.19	359.46
352.19	365.01	353.36	380.24	354.74	382.62	356.23	370.02
352.24	378.14	353.38	374.34	354.83	376.62	356.27	349.70
352.25	364.24	353.39	365.22	354.87	385.08	356.28	367.18
352.27	367.40	353.40	376.28	354.89	391.47	356.29	367.05
352.28	363.38	353.47	365.57	354.90	396.33	356.31	359.31
352.29	357.01	353.48	378.76	354.93	388.91	356.32	379.42
352.30	358.66	353.50	352.03	354.96	379.69	356.33	374.44
352.31	354.56	353.51	367.45	354.99	380.06	356.34	369.10
352.32	355.66	353.52	360.78	355.01	375.82	356.36	367.94
352.37	381.95	353.53	386.27	355.03	387.25	356.38	385.88
352.38	380.05	353.54	386.38	355.04	382.60	356.39	395.46
352.40	366.68	353.55	382.28	355.06	365.11	356.43	373.44

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
356.45	362.52	357.86	381.68	359.18	387.00	360.70	371.98
356.48	377.26	357.87	380.16	359.19	364.83	360.72	376.43
356.49	367.50	357.88	385.56	359.21	381.54	360.73	379.61
356.55	386.78	357.90	387.45	359.22	382.25	360.74	381.89
356.56	389.86	357.93	373.51	359.23	363.00	360.79	351.94
356.58	384.60	357.94	388.48	359.25	355.63	360.80	385.42
356.60	367.33	357.97	383.43	359.30	391.08	360.82	363.90
356.63	359.46	358.01	375.63	359.33	387.58	360.83	376.36
356.67	391.94	358.02	377.51	359.34	347.83	360.90	376.40
356.69	410.88	358.05	374.21	359.36	399.81	360.91	393.39
356.70	368.12	358.06	370.82	359.39	380.30	360.92	391.70
356.71	351.74	358.09	369.21	359.41	366.93	360.94	418.46
356.72	373.53	358.12	381.84	359.42	377.08	360.95	393.94
356.73	363.85	358.13	377.93	359.47	373.96	360.97	368.35
356.76	370.82	358.14	386.39	359.52	376.00	360.99	388.19
356.77	345.14	358.17	376.48	359.57	381.93	361.00	381.30
356.79	369.58	358.22	356.05	359.59	381.32	361.03	367.49
356.81	385.03	358.27	387.33	359.61	377.94	361.07	373.09
356.88	392.77	358.31	377.77	359.63	354.46	361.08	374.92
356.90	396.61	358.34	373.71	359.64	390.00	361.10	366.71
356.91	370.24	358.35	381.57	359.65	362.67	361.12	374.02
356.92	361.16	358.37	368.75	359.66	380.75	361.13	376.03
356.94	388.53	358.39	362.13	359.73	375.22	361.15	389.49
356.98	373.26	358.41	388.11	359.74	381.04	361.18	376.24
357.04	358.02	358.42	371.70	359.75	396.88	361.20	373.61
357.06	358.82	358.43	374.74	359.83	372.26	361.24	377.15
357.07	389.53	358.46	370.17	359.84	384.29	361.26	384.54
357.08	387.10	358.47	384.13	359.85	357.66	361.27	377.96
357.09	389.57	358.48	398.86	359.88	400.65	361.28	389.08
357.15	584.32	358.49	354.81	359.90	370.95	361.29	407.35
357.20	369.52	358.51	382.35	359.96	398.60	361.30	415.21
357.23	386.99	358.53	374.43	359.97	392.36	361.32	380.40
357.25	366.33	358.60	375.30	360.02	395.35	361.33	374.09
357.27	348.83	358.62	388.79	360.04	383.66	361.34	378.41
357.29	379.59	358.64	383.71	360.05	370.21	361.36	380.97
357.31	385.99	358.66	395.70	360.06	419.57	361.37	373.36
357.36	372.94	358.69	373.05	360.11	368.04	361.40	393.99
357.39	374.54	358.71	368.00	360.12	367.60	361.41	379.39
357.41	364.85	358.78	355.94	360.13	586.22	361.42	377.24
357.44	357.27	358.79	376.67	360.14	377.47	361.44	383.90
357.47	385.54	358.80	365.79	360.15	372.91	361.45	380.11
357.48	373.77	358.81	383.43	360.16	399.60	361.46	426.06
357.49	372.06	358.84	392.89	360.17	380.24	361.48	383.41
357.50	354.81	358.85	410.64	360.29	354.21	361.54	374.80
357.55	369.41	358.86	367.62	360.30	384.42	361.55	388.25
357.59	375.74	358.88	385.59	360.32	381.47	361.57	379.30
357.60	365.84	358.89	379.15	360.38	421.44	361.62	386.80
357.62	367.90	358.92	416.23	360.42	378.68	361.63	373.43
357.64	375.04	358.93	375.47	360.44	376.27	361.65	369.38
357.65	374.50	358.96	375.87	360.46	367.77	361.67	409.40
357.66	373.70	358.97	378.33	360.48	404.33	361.68	366.70
357.67	370.72	359.00	372.91	360.49	364.49	361.69	370.66
357.71	380.36	359.04	416.17	360.50	383.53	361.74	383.36
357.72	388.57	359.05	375.26	360.55	372.59	361.79	388.08
357.73	366.52	359.06	376.32	360.57	375.78	361.81	406.89
357.78	376.36	359.07	385.90	360.59	363.48	361.83	393.23
357.79	378.78	359.11	373.96	360.64	382.92	361.84	370.02
357.81	374.85	359.12	380.02	360.65	362.57	361.87	379.96
357.82	381.86	359.16	370.08	360.67	382.68	361.93	390.36
357.84	405.40	359.17	378.11	360.69	393.39	361.94	384.95

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
361.96	396.16	363.15	386.87	364.45	384.66	365.78	370.43
361.99	386.02	363.17	383.38	364.48	374.68	365.79	398.18
362.00	375.94	363.19	390.58	364.49	374.77	365.81	382.58
362.02	586.81	363.21	388.03	364.50	366.09	365.84	380.94
362.03	398.66	363.22	379.31	364.51	381.46	365.89	388.82
362.06	371.75	363.23	376.00	364.52	397.53	365.91	381.93
362.08	364.97	363.24	370.13	364.56	373.20	365.95	381.00
362.09	382.78	363.27	383.76	364.57	386.20	365.96	365.03
362.10	408.06	363.28	396.67	364.58	375.60	365.97	371.58
362.12	378.25	363.29	386.39	364.59	366.57	366.04	584.81
362.13	383.61	363.30	381.67	364.61	363.35	366.05	377.70
362.14	387.67	363.34	384.86	364.62	366.55	366.06	377.08
362.16	404.41	363.38	383.91	364.63	389.56	366.08	379.65
362.17	373.91	363.39	410.24	364.64	363.72	366.12	418.28
362.19	396.62	363.41	379.65	364.69	368.41	366.19	368.77
362.20	390.54	363.43	385.76	364.70	382.22	366.22	378.61
362.21	368.25	363.45	407.75	364.72	390.35	366.24	380.67
362.23	394.60	363.48	378.86	364.75	394.98	366.26	371.94
362.24	364.03	363.49	382.86	364.77	399.66	366.29	388.63
362.27	387.23	363.50	391.20	364.78	403.65	366.31	405.62
362.30	379.13	363.51	396.69	364.79	370.45	366.33	379.59
362.32	389.18	363.52	393.12	364.80	385.69	366.36	386.13
362.34	585.99	363.55	357.28	364.82	388.22	366.37	382.86
362.36	389.51	363.58	398.82	364.83	400.82	366.38	385.64
362.38	387.97	363.60	381.02	364.85	368.52	366.39	389.29
362.40	373.54	363.63	373.39	364.88	391.21	366.40	368.88
362.44	379.09	363.64	378.41	364.89	411.60	366.43	349.81
362.45	366.86	363.67	370.77	364.92	394.19	366.44	390.13
362.46	391.51	363.70	401.76	364.94	397.83	366.45	379.80
362.48	383.16	363.73	419.66	364.95	384.32	366.46	397.31
362.52	377.11	363.77	417.14	364.96	381.42	366.47	404.90
362.56	358.17	363.78	376.48	364.98	378.72	366.49	387.40
362.58	382.61	363.80	387.00	364.99	389.37	366.50	381.69
362.60	382.21	363.82	417.07	365.02	383.61	366.51	396.26
362.63	361.69	363.84	375.88	365.03	379.39	366.52	384.84
362.64	372.06	363.86	394.53	365.04	380.69	366.55	386.49
362.65	368.79	363.91	389.14	365.05	400.40	366.56	394.58
362.66	386.22	363.95	586.81	365.11	375.30	366.57	393.58
362.67	395.65	363.96	375.49	365.13	382.81	366.58	430.81
362.68	360.80	363.99	391.95	365.16	392.82	366.59	380.44
362.69	376.03	364.01	376.19	365.22	416.89	366.61	390.24
362.70	380.40	364.04	392.37	365.26	374.77	366.69	408.75
362.75	383.21	364.05	387.80	365.29	381.59	366.72	387.54
362.76	354.62	364.07	390.58	365.31	392.78	366.73	400.52
362.77	378.34	364.08	379.53	365.33	382.87	366.75	374.71
362.78	374.43	364.09	385.70	365.34	400.31	366.76	365.15
362.85	381.97	364.14	379.87	365.36	371.78	366.81	394.53
362.87	386.15	364.16	386.11	365.38	381.73	366.82	380.34
362.91	419.33	364.19	398.10	365.39	377.23	366.91	384.29
362.99	385.30	364.20	377.18	365.42	369.41	366.92	417.90
363.01	383.54	364.23	397.33	365.44	391.44	366.93	390.84
363.02	362.89	364.25	379.15	365.45	397.87	366.97	430.72
363.03	371.80	364.27	376.52	365.48	392.57	366.98	392.97
363.04	380.24	364.29	369.14	365.49	381.88	367.00	384.92
363.06	372.92	364.32	394.23	365.53	405.58	367.07	367.17
363.07	373.66	364.33	370.51	365.54	383.43	367.09	390.56
363.09	386.45	364.36	386.62	365.56	367.95	367.12	381.66
363.10	388.54	364.37	391.47	365.66	406.97	367.14	393.23
363.11	393.15	364.40	384.71	365.72	372.55	367.18	395.54
363.12	373.45	364.43	379.41	365.73	388.39	367.19	386.02

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
367.23	378.07	368.40	406.94	369.50	391.61	370.62	384.00
367.24	393.62	368.41	371.48	369.51	378.96	370.64	392.27
367.26	391.07	368.45	389.38	369.52	386.32	370.65	394.23
367.27	394.27	368.49	390.32	369.56	389.71	370.66	385.86
367.28	376.24	368.50	394.16	369.57	404.89	370.68	390.73
367.30	367.68	368.51	386.48	369.58	405.93	370.69	383.21
367.31	395.27	368.52	363.24	369.60	424.88	370.71	394.20
367.33	366.88	368.53	379.64	369.62	378.80	370.77	396.25
367.36	394.83	368.54	379.50	369.64	438.19	370.79	353.51
367.38	398.19	368.57	382.89	369.65	397.44	370.80	383.81
367.43	379.81	368.58	359.43	369.73	375.42	370.81	378.37
367.44	396.36	368.59	383.93	369.75	388.20	370.83	390.94
367.46	378.71	368.62	394.82	369.77	398.36	370.84	396.62
367.47	389.98	368.63	377.39	369.78	394.44	370.85	392.21
367.48	403.33	368.67	401.17	369.79	367.95	370.90	389.71
367.50	376.26	368.68	397.55	369.80	380.94	370.91	369.81
367.51	366.44	368.70	399.05	369.81	426.36	370.94	395.01
367.58	401.88	368.71	374.08	369.83	396.66	370.99	400.29
367.59	585.84	368.72	380.51	369.85	378.91	371.00	383.53
367.60	380.60	368.74	361.35	369.87	382.46	371.02	410.74
367.63	398.98	368.75	382.33	369.88	388.35	371.03	394.00
367.65	385.02	368.82	403.75	369.89	386.38	371.04	398.16
367.70	381.24	368.83	371.69	369.94	384.29	371.05	395.41
367.72	400.14	368.88	366.78	369.98	390.20	371.07	387.11
367.73	382.88	368.90	369.03	370.00	388.36	371.12	382.52
367.74	387.02	368.95	380.76	370.01	382.57	371.13	395.28
367.79	423.71	368.96	423.80	370.09	407.46	371.14	376.11
367.80	390.84	368.97	373.03	370.11	379.66	371.15	384.28
367.83	371.20	368.99	377.00	370.12	408.61	371.19	411.13
367.84	383.84	369.02	383.68	370.14	385.88	371.21	384.68
367.86	396.42	369.03	391.86	370.16	375.58	371.23	405.30
367.89	387.20	369.11	391.73	370.17	400.23	371.28	419.63
367.90	396.50	369.12	386.70	370.18	401.30	371.30	388.56
367.92	380.38	369.13	394.62	370.19	409.61	371.31	379.83
367.93	395.08	369.14	379.22	370.20	377.03	371.42	380.21
367.94	365.61	369.15	393.68	370.22	368.65	371.43	404.20
367.95	413.21	369.16	381.97	370.23	376.59	371.46	397.60
367.96	377.59	369.17	390.85	370.24	388.93	371.47	423.40
367.98	386.42	369.19	385.67	370.25	395.78	371.49	380.41
368.00	388.18	369.21	385.45	370.26	383.03	371.50	359.82
368.04	383.67	369.22	377.41	370.27	392.73	371.52	395.69
368.05	384.37	369.23	357.14	370.28	396.27	371.54	391.64
368.06	394.85	369.24	388.39	370.30	422.90	371.55	392.20
368.07	374.00	369.25	393.34	370.34	389.15	371.57	395.81
368.10	385.06	369.26	380.16	370.35	392.90	371.58	586.42
368.12	388.68	369.27	383.38	370.36	379.59	371.60	580.28
368.13	370.66	369.29	391.18	370.37	391.53	371.61	381.65
368.15	380.95	369.30	389.78	370.39	391.15	371.62	386.50
368.17	400.45	369.33	396.61	370.40	394.06	371.64	392.01
368.20	392.00	369.35	396.56	370.41	352.08	371.65	388.10
368.21	382.42	369.36	428.34	370.43	387.32	371.66	428.93
368.23	373.96	369.37	395.06	370.47	395.76	371.67	414.99
368.24	368.99	369.39	383.45	370.48	384.27	371.69	395.13
368.26	398.58	369.40	403.84	370.50	385.90	371.71	409.15
368.30	371.54	369.41	393.91	370.51	384.92	371.72	422.23
368.31	416.08	369.42	377.05	370.52	399.36	371.80	394.35
368.33	377.63	369.43	405.69	370.53	400.33	371.83	393.50
368.35	390.29	369.44	386.38	370.59	378.50	371.85	370.34
368.37	393.26	369.45	393.03	370.60	394.17	371.88	389.10
368.39	403.63	369.46	394.45	370.61	390.43	371.89	376.85

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
371.90	401.45	373.01	388.59	374.01	394.42	375.42	392.21
371.91	396.86	373.02	411.81	374.10	394.34	375.43	384.64
371.94	386.32	373.03	401.84	374.15	384.80	375.44	390.45
371.96	391.56	373.04	388.83	374.18	398.43	375.45	404.83
371.97	402.39	373.05	398.21	374.19	385.24	375.49	382.12
371.98	387.90	373.07	391.63	374.20	396.48	375.54	396.86
371.99	397.55	373.08	377.98	374.21	400.32	375.55	395.38
372.00	407.43	373.09	385.53	374.25	386.75	375.59	395.92
372.01	394.20	373.10	377.43	374.27	367.14	375.61	382.34
372.02	392.69	373.11	404.33	374.28	390.09	375.63	389.77
372.04	413.05	373.13	380.83	374.29	389.16	375.64	390.67
372.10	389.80	373.14	392.31	374.30	382.55	375.66	390.40
372.11	394.86	373.16	396.29	374.32	392.00	375.68	377.63
372.12	381.21	373.17	393.38	374.33	407.89	375.70	391.49
372.13	391.24	373.18	400.02	374.36	385.30	375.72	386.59
372.14	382.95	373.19	371.40	374.37	374.28	375.73	402.39
372.17	395.13	373.22	375.55	374.39	403.91	375.74	378.86
372.19	389.55	373.23	394.02	374.44	394.26	375.75	391.31
372.20	375.18	373.25	407.85	374.45	390.53	375.76	399.12
372.21	387.58	373.26	397.32	374.46	364.09	375.78	380.06
372.23	384.71	373.29	395.45	374.47	396.77	375.79	402.44
372.24	395.11	373.30	383.94	374.50	388.34	375.81	401.55
372.25	377.27	373.31	355.53	374.56	389.91	375.82	400.60
372.27	395.26	373.32	391.94	374.57	386.25	375.90	400.56
372.29	396.09	373.33	389.03	374.58	385.78	375.92	394.55
372.36	399.91	373.35	391.06	374.59	389.84	375.93	431.16
372.40	397.32	373.36	385.92	374.61	393.31	375.95	384.52
372.43	381.44	373.38	400.32	374.66	397.60	375.98	401.11
372.46	401.31	373.40	383.82	374.68	372.72	376.00	381.86
372.48	430.61	373.43	386.88	374.70	392.84	376.02	386.84
372.50	380.38	373.44	381.80	374.71	392.09	376.03	400.55
372.51	400.45	373.45	400.72	374.74	386.77	376.05	382.18
372.52	393.84	373.48	398.65	374.84	394.19	376.08	388.47
372.55	393.00	373.49	403.88	374.87	394.33	376.09	396.04
372.56	431.14	373.52	398.13	374.89	426.86	376.10	427.20
372.61	405.76	373.53	392.04	374.90	390.40	376.13	393.75
372.62	390.09	373.55	412.18	374.94	406.67	376.15	383.95
372.64	397.06	373.59	424.04	374.95	403.59	376.16	398.78
372.65	376.77	373.62	393.55	375.01	391.21	376.17	383.33
372.66	387.11	373.64	377.76	375.03	393.08	376.18	383.68
372.67	422.91	373.65	379.17	375.06	395.04	376.19	381.82
372.69	399.96	373.66	395.32	375.08	397.83	376.21	406.40
372.73	376.12	373.70	387.16	375.09	397.82	376.22	401.97
372.75	396.21	373.73	382.58	375.13	400.48	376.23	441.70
372.76	406.98	373.76	376.05	375.14	402.07	376.25	391.48
372.79	388.72	373.77	398.92	375.16	388.19	376.26	372.30
372.81	373.94	373.80	381.91	375.18	401.61	376.29	397.76
372.82	396.44	373.81	386.21	375.21	391.14	376.31	404.84
372.83	389.26	373.82	434.24	375.22	434.65	376.32	384.86
372.84	389.25	373.83	391.75	375.23	385.31	376.34	397.98
372.85	379.72	373.84	403.16	375.25	393.77	376.35	403.77
372.86	401.23	373.87	460.69	375.26	395.23	376.36	393.22
372.87	388.07	373.89	435.13	375.28	386.10	376.38	404.58
372.88	406.48	373.92	394.93	375.29	412.83	376.39	417.76
372.90	393.36	373.95	385.63	375.30	385.98	376.40	390.10
372.91	394.56	373.96	402.93	375.31	408.30	376.42	395.74
372.92	390.55	373.97	380.51	375.32	412.29	376.44	403.27
372.93	381.02	373.98	383.93	375.34	380.66	376.45	392.94
372.95	364.03	373.99	403.67	375.35	390.93	376.48	408.00
372.97	406.20	374.00	392.26	375.38	403.79	376.49	388.62



PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
376.51	387.31	377.68	393.25	378.80	411.90	379.87	396.09
376.52	396.77	377.69	383.69	378.81	414.26	379.88	582.26
376.53	408.11	377.70	431.88	378.84	390.42	379.90	419.97
376.54	409.97	377.75	385.36	378.88	403.27	379.93	408.74
376.58	396.60	377.76	397.99	378.89	405.10	379.94	393.10
376.62	415.23	377.77	409.83	378.91	406.73	379.95	403.60
376.64	413.02	377.78	404.88	378.93	372.05	379.97	391.03
376.65	388.88	377.80	390.68	378.94	397.03	379.98	397.80
376.66	396.33	377.82	387.80	378.95	415.17	379.99	405.47
376.67	390.41	377.86	380.74	378.97	408.09	380.00	402.35
376.68	378.10	377.87	393.24	378.98	439.10	380.01	393.72
376.69	391.91	377.89	433.71	379.00	409.63	380.08	395.92
376.70	392.14	377.92	394.37	379.03	586.72	380.13	410.26
376.72	392.84	377.93	397.52	379.04	408.74	380.15	394.38
376.73	586.94	377.95	381.92	379.05	408.56	380.17	390.17
376.74	396.71	377.96	412.25	379.09	390.09	380.18	409.26
376.75	391.51	377.98	401.42	379.12	402.13	380.19	408.74
376.76	375.13	377.99	389.36	379.14	385.32	380.22	407.45
376.77	400.75	378.01	399.31	379.15	401.36	380.23	400.02
376.80	387.59	378.03	391.43	379.17	436.71	380.25	394.62
376.81	384.50	378.05	398.62	379.18	437.08	380.30	391.09
376.82	393.71	378.06	414.94	379.21	400.16	380.31	395.55
376.84	412.05	378.07	409.38	379.22	402.07	380.33	385.08
376.85	369.23	378.08	395.25	379.24	388.49	380.35	413.60
376.86	375.32	378.09	391.35	379.26	405.98	380.38	414.45
376.87	375.11	378.10	396.54	379.28	402.66	380.40	391.48
376.92	415.84	378.11	401.92	379.29	401.80	380.41	399.51
376.93	396.43	378.13	394.84	379.33	406.06	380.45	410.94
376.94	386.26	378.15	398.46	379.35	394.29	380.47	403.00
376.95	395.85	378.17	428.47	379.36	369.29	380.48	386.27
376.97	383.13	378.18	429.92	379.37	389.88	380.50	391.15
377.02	407.86	378.20	399.69	379.38	419.06	380.52	404.71
377.03	373.56	378.22	399.95	379.39	384.35	380.53	373.24
377.04	384.24	378.23	397.83	379.40	381.87	380.54	396.48
377.05	421.22	378.28	396.74	379.41	413.02	380.56	408.84
377.07	421.78	378.29	388.90	379.45	397.31	380.58	380.21
377.08	396.89	378.30	388.91	379.48	395.71	380.59	399.92
377.09	378.19	378.31	394.92	379.49	391.49	380.61	387.99
377.13	393.71	378.33	404.46	379.50	412.72	380.63	408.26
377.15	372.85	378.34	393.84	379.51	423.07	380.66	398.42
377.17	379.03	378.35	396.61	379.52	383.61	380.67	400.86
377.20	407.55	378.36	395.61	379.54	390.66	380.68	403.91
377.21	388.79	378.37	375.64	379.55	384.75	380.69	393.17
377.22	399.78	378.40	392.54	379.56	388.20	380.71	403.84
377.23	392.73	378.44	384.40	379.57	406.16	380.72	414.52
377.25	390.98	378.47	428.30	379.58	387.13	380.76	389.25
377.26	396.34	378.48	404.76	379.63	366.48	380.80	379.48
377.27	381.96	378.49	411.07	379.65	404.01	380.81	403.44
377.28	394.95	378.51	400.07	379.66	402.21	380.84	401.13
377.33	405.27	378.53	388.40	379.68	401.85	380.85	402.81
377.39	388.83	378.54	384.94	379.69	383.60	380.86	396.30
377.40	390.07	378.55	397.13	379.71	400.39	380.87	396.42
377.47	400.45	378.57	384.53	379.74	384.41	380.88	398.98
377.49	405.34	378.67	390.77	379.75	425.41	380.90	384.40
377.50	399.14	378.69	394.70	379.76	385.87	380.91	395.12
377.53	586.93	378.70	430.55	379.77	404.12	380.95	413.52
377.54	401.30	378.72	407.68	379.78	379.56	380.96	402.13
377.59	385.55	378.74	407.06	379.80	374.71	380.97	388.70
377.61	381.62	378.75	408.57	379.83	401.35	381.01	463.13
377.62	389.60	378.79	394.70	379.85	426.91	381.02	382.57

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
381.03	390.28	382.16	419.08	383.20	388.76	384.47	424.22
381.04	402.92	382.17	401.18	383.21	381.59	384.48	399.89
381.05	389.76	382.19	390.22	383.23	417.87	384.50	423.32
381.08	393.31	382.22	416.71	383.24	398.15	384.51	405.92
381.09	390.92	382.23	433.47	383.25	401.68	384.53	380.24
381.11	411.40	382.24	401.30	383.31	394.32	384.56	405.17
381.18	409.41	382.25	384.23	383.32	410.37	384.58	416.79
381.20	381.52	382.27	397.49	383.34	423.09	384.59	408.75
381.21	378.55	382.28	391.90	383.36	419.82	384.62	401.83
381.22	387.79	382.29	397.10	383.37	397.11	384.65	399.09
381.23	398.39	382.30	420.45	383.39	400.55	384.69	412.05
381.25	408.55	382.31	392.32	383.40	396.99	384.70	401.04
381.26	404.63	382.36	410.42	383.41	481.47	384.73	382.27
381.29	388.66	382.37	405.57	383.44	410.57	384.74	389.88
381.30	415.66	382.39	400.39	383.45	408.33	384.75	395.61
381.31	388.70	382.40	390.98	383.52	450.40	384.77	380.43
381.33	414.51	382.41	396.31	383.53	390.96	384.84	402.58
381.34	387.84	382.42	406.68	383.57	415.47	384.86	404.34
381.36	400.45	382.45	380.12	383.58	393.18	384.90	586.23
381.38	384.59	382.49	412.10	383.60	405.81	384.93	392.23
381.39	386.33	382.50	392.62	383.63	401.74	384.94	404.10
381.41	389.03	382.53	392.87	383.66	387.50	384.95	385.82
381.42	404.42	382.56	412.64	383.68	402.58	384.96	398.36
381.43	416.85	382.57	403.60	383.73	402.22	384.97	403.50
381.44	448.26	382.58	588.74	383.76	403.46	385.00	390.13
381.45	406.90	382.64	378.89	383.78	396.10	385.02	412.80
381.46	392.61	382.65	384.62	383.79	403.98	385.03	407.49
381.47	401.19	382.66	410.24	383.81	417.85	385.05	395.45
381.53	388.36	382.68	392.97	383.84	399.80	385.08	399.08
381.55	399.77	382.70	462.56	383.88	425.06	385.09	397.69
381.56	404.46	382.71	403.26	383.89	396.10	385.10	398.58
381.57	405.55	382.72	407.68	383.91	406.85	385.13	405.53
381.58	383.15	382.74	403.79	383.92	437.99	385.14	420.77
381.59	421.28	382.78	401.98	383.94	409.55	385.15	402.01
381.64	399.26	382.79	430.28	383.95	398.11	385.17	403.98
381.66	397.55	382.81	415.80	383.96	411.10	385.20	402.65
381.67	405.34	382.83	395.68	383.98	411.59	385.22	404.72
381.68	397.29	382.85	404.33	384.02	392.30	385.25	384.19
381.73	392.72	382.86	401.01	384.05	586.53	385.26	386.61
381.78	397.51	382.87	393.00	384.07	403.07	385.27	407.02
381.79	399.67	382.89	424.69	384.10	410.35	385.29	407.90
381.80	395.97	382.90	395.20	384.13	384.96	385.32	414.16
381.81	402.78	382.94	389.21	384.16	402.80	385.35	405.84
381.82	407.11	382.95	390.98	384.19	391.98	385.39	384.79
381.87	389.45	382.98	412.49	384.23	395.85	385.40	430.34
381.90	398.77	382.99	407.58	384.24	412.36	385.44	405.23
381.93	391.95	383.01	413.42	384.25	399.49	385.45	389.82
381.95	405.52	383.02	399.57	384.26	389.98	385.46	401.09
381.98	397.66	383.03	400.99	384.27	439.57	385.47	408.10
382.00	376.68	383.04	588.65	384.28	439.23	385.49	407.50
382.01	404.40	383.05	406.37	384.29	393.21	385.51	422.87
382.02	405.48	383.06	382.22	384.30	408.49	385.53	427.70
382.03	399.44	383.10	417.99	384.31	400.16	385.57	407.00
382.04	388.60	383.12	377.24	384.32	418.79	385.60	394.42
382.08	410.11	383.14	401.68	384.33	412.52	385.62	382.70
382.09	414.59	383.15	437.02	384.34	395.92	385.63	398.17
382.10	409.61	383.16	381.25	384.37	451.51	385.64	415.79
382.12	426.89	383.17	413.02	384.41	394.18	385.66	445.94
382.14	398.05	383.18	404.34	384.42	395.06	385.70	404.44
382.15	394.07	383.19	398.70	384.45	407.79	385.71	411.96

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
385.72	394.02	386.88	402.91	387.96	437.40	388.99	415.60
385.76	410.29	386.92	386.71	388.02	406.45	389.00	412.87
385.78	399.66	386.93	410.31	388.03	409.79	389.03	400.50
385.79	410.14	386.94	404.86	388.04	384.62	389.04	417.60
385.87	423.52	386.98	406.72	388.05	399.89	389.06	409.84
385.89	401.58	386.99	394.51	388.06	406.64	389.10	417.08
385.90	415.54	387.00	411.37	388.07	388.89	389.12	402.14
385.93	405.38	387.07	412.77	388.08	406.82	389.13	410.60
385.94	390.58	387.11	587.71	388.11	410.29	389.14	403.29
385.95	404.50	387.12	397.74	388.13	409.57	389.15	422.60
385.98	380.94	387.13	392.92	388.14	589.30	389.16	400.10
386.00	417.09	387.14	406.96	388.15	399.21	389.17	394.68
386.01	393.68	387.21	401.59	388.16	394.64	389.20	425.44
386.03	394.56	387.23	413.35	388.18	402.07	389.23	386.43
386.06	446.91	387.28	416.47	388.21	423.13	389.25	407.36
386.08	434.30	387.29	417.52	388.22	413.10	389.26	419.47
386.11	405.47	387.30	409.52	388.24	391.42	389.27	401.64
386.13	407.23	387.34	387.72	388.25	400.26	389.29	412.11
386.14	411.80	387.35	434.64	388.26	392.87	389.30	402.08
386.16	387.19	387.36	410.61	388.27	434.64	389.31	401.16
386.17	410.92	387.37	392.01	388.29	428.53	389.33	383.55
386.18	403.47	387.38	393.26	388.30	400.41	389.35	589.45
386.19	398.43	387.39	390.57	388.31	408.51	389.37	409.12
386.22	400.62	387.40	412.44	388.34	401.12	389.38	421.33
386.23	416.94	387.44	401.39	388.37	402.82	389.41	406.17
386.29	391.14	387.47	586.69	388.38	404.92	389.47	410.84
386.30	432.43	387.50	388.86	388.42	406.48	389.49	403.95
386.31	390.49	387.52	392.63	388.46	420.57	389.50	411.18
386.32	434.61	387.54	404.22	388.47	410.99	389.51	429.71
386.33	394.86	387.55	423.44	388.50	409.76	389.53	409.36
386.34	384.95	387.58	397.85	388.52	383.01	389.54	400.15
386.37	414.94	387.59	399.85	388.54	404.50	389.55	412.53
386.38	390.39	387.60	410.35	388.55	393.48	389.59	409.44
386.39	411.80	387.62	402.79	388.57	419.62	389.63	434.85
386.40	407.77	387.63	401.63	388.58	403.65	389.64	423.48
386.41	401.24	387.64	399.26	388.59	383.26	389.66	432.74
386.42	391.61	387.65	397.94	388.61	419.79	389.67	408.96
386.44	395.88	387.66	409.37	388.62	403.89	389.68	396.01
386.46	410.68	387.67	411.81	388.63	402.44	389.70	390.75
386.47	419.47	387.68	427.57	388.67	415.49	389.72	397.96
386.48	416.20	387.70	587.50	388.69	396.86	389.73	419.95
386.50	411.00	387.71	405.00	388.71	417.34	389.74	438.58
386.53	401.72	387.72	410.78	388.72	406.94	389.75	405.98
386.54	401.15	387.73	413.94	388.73	419.22	389.76	399.37
386.55	393.31	387.74	418.92	388.74	419.30	389.78	448.94
386.56	423.13	387.76	432.93	388.76	404.22	389.82	396.39
386.59	399.52	387.77	401.45	388.79	412.93	389.84	430.22
386.60	587.96	387.78	399.07	388.80	396.36	389.88	408.47
386.61	394.77	387.79	406.95	388.81	402.02	389.90	404.44
386.63	392.69	387.80	389.24	388.82	408.70	389.91	424.10
386.66	485.58	387.81	408.88	388.83	401.64	389.93	413.40
386.68	410.10	387.82	410.42	388.85	407.33	389.94	403.04
386.69	406.02	387.84	387.60	388.86	403.72	390.00	397.89
386.72	398.75	387.85	402.18	388.88	386.44	390.01	408.73
386.73	412.78	387.86	399.75	388.89	407.28	390.05	409.51
386.75	400.16	387.88	395.32	388.90	411.38	390.06	417.64
386.76	410.92	387.91	406.07	388.92	391.52	390.08	409.37
386.77	447.15	387.92	416.81	388.93	399.59	390.09	462.66
386.83	424.30	387.93	405.79	388.95	409.18	390.12	401.55
386.84	387.48	387.95	390.43	388.97	431.91	390.14	408.23

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
390.15	407.33	391.13	401.35	392.24	409.15	393.21	411.24
390.16	388.43	391.15	411.34	392.26	420.79	393.22	389.86
390.17	387.03	391.16	415.74	392.27	413.74	393.24	395.36
390.24	406.06	391.18	408.32	392.28	393.69	393.26	398.93
390.26	444.72	391.19	425.86	392.29	405.78	393.28	406.66
390.27	400.98	391.20	422.45	392.30	409.21	393.33	378.60
390.29	580.63	391.21	409.29	392.33	405.69	393.39	422.86
390.30	405.72	391.24	422.08	392.35	651.37	393.40	409.08
390.32	405.88	391.26	446.44	392.36	421.37	393.45	411.20
390.34	396.34	391.28	423.29	392.37	416.24	393.47	401.42
390.36	407.61	391.30	396.08	392.38	420.98	393.48	415.28
390.38	421.55	391.31	410.84	392.39	428.07	393.49	416.64
390.39	394.12	391.33	398.75	392.40	421.80	393.52	402.50
390.40	411.33	391.34	441.88	392.41	403.22	393.53	396.29
390.41	393.49	391.37	581.87	392.43	417.52	393.54	413.57
390.43	409.95	391.39	587.70	392.44	416.67	393.57	407.90
390.46	414.89	391.40	411.58	392.47	393.24	393.58	588.33
390.48	430.37	391.46	418.28	392.51	411.31	393.60	414.11
390.49	412.93	391.47	413.88	392.53	409.18	393.63	405.07
390.50	409.25	391.48	411.45	392.54	411.67	393.64	412.16
390.51	402.60	391.50	395.10	392.55	407.20	393.65	419.65
390.52	399.74	391.55	407.74	392.57	404.25	393.66	421.56
390.54	401.34	391.56	416.70	392.58	423.26	393.68	411.17
390.55	397.94	391.62	390.96	392.59	401.19	393.69	430.16
390.57	423.04	391.64	397.11	392.61	418.84	393.71	402.96
390.58	403.42	391.65	396.77	392.65	419.46	393.72	394.07
390.59	415.24	391.67	406.20	392.66	409.59	393.76	422.67
390.60	412.56	391.70	425.56	392.67	422.31	393.79	388.72
390.62	402.54	391.71	409.19	392.69	400.23	393.81	413.43
390.64	420.24	391.72	398.33	392.70	397.45	393.83	410.90
390.65	413.99	391.73	403.18	392.75	421.31	393.84	419.96
390.66	416.84	391.75	426.90	392.76	402.46	393.85	421.00
390.69	406.27	391.77	399.82	392.77	438.27	393.86	386.73
390.70	404.34	391.79	396.18	392.78	405.78	393.87	403.17
390.71	396.81	391.80	401.57	392.80	454.41	393.90	409.33
390.73	400.48	391.82	428.12	392.81	588.26	393.91	422.78
390.75	419.51	391.84	446.32	392.82	417.36	393.92	443.06
390.76	420.78	391.85	404.94	392.84	434.67	393.93	423.57
390.80	403.32	391.86	419.05	392.86	415.46	393.94	413.48
390.82	403.74	391.87	401.66	392.87	395.02	393.96	418.18
390.83	424.58	391.88	409.24	392.88	416.61	393.98	445.50
390.84	405.51	391.91	403.36	392.90	404.42	394.00	434.37
390.86	396.26	391.92	407.28	392.91	388.06	394.01	399.75
390.87	421.60	391.93	422.03	392.92	395.78	394.03	410.08
390.89	423.17	391.95	409.05	392.93	410.60	394.04	416.86
390.91	387.71	391.96	387.38	392.94	402.03	394.08	423.96
390.92	401.69	391.99	398.53	392.96	412.67	394.09	444.47
390.93	415.58	392.01	405.73	392.99	408.67	394.10	415.28
390.94	392.00	392.03	405.01	393.00	476.87	394.14	413.12
390.95	402.78	392.06	388.44	393.01	402.03	394.15	406.83
390.97	405.84	392.07	413.70	393.04	414.63	394.16	418.00
390.98	401.27	392.11	415.05	393.08	429.85	394.19	419.51
390.99	408.13	392.12	409.39	393.09	396.22	394.20	397.16
391.01	405.33	392.13	380.57	393.10	394.56	394.24	417.90
391.03	441.56	392.14	388.46	393.11	411.19	394.25	408.56
391.05	396.30	392.16	400.79	393.14	412.07	394.27	416.03
391.06	406.40	392.17	429.02	393.15	405.89	394.28	388.65
391.09	419.25	392.18	428.04	393.17	406.22	394.30	420.49
391.11	409.74	392.20	402.73	393.18	417.58	394.31	410.22
391.12	393.51	392.23	424.37	393.19	416.70	394.33	443.06

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
394.34	419.26	395.22	416.20	396.22	437.76	397.21	401.07
394.35	425.42	395.23	409.94	396.23	410.59	397.22	422.28
394.36	393.52	395.24	416.15	396.24	429.44	397.23	417.76
394.38	443.63	395.25	410.26	396.26	405.58	397.25	402.37
394.44	425.15	395.26	406.38	396.29	421.95	397.28	417.53
394.46	416.84	395.27	407.82	396.30	408.19	397.30	407.06
394.47	415.30	395.28	419.23	396.34	407.14	397.31	416.23
394.48	460.28	395.29	434.65	396.35	406.85	397.32	397.32
394.50	421.64	395.31	412.39	396.36	410.52	397.33	415.09
394.51	582.05	395.32	402.56	396.37	404.85	397.34	416.90
394.52	403.15	395.33	426.70	396.38	425.41	397.35	402.18
394.53	406.38	395.35	416.29	396.41	411.31	397.37	412.39
394.54	397.43	395.38	398.81	396.42	420.05	397.40	418.41
394.57	405.22	395.40	419.97	396.44	435.97	397.42	411.19
394.58	402.58	395.42	417.84	396.45	416.32	397.44	433.84
394.60	415.40	395.43	413.44	396.46	417.07	397.45	408.85
394.61	410.59	395.44	380.68	396.48	373.38	397.46	409.30
394.63	415.12	395.46	589.63	396.50	424.02	397.48	412.07
394.64	401.89	395.47	396.58	396.51	414.07	397.50	419.34
394.66	417.72	395.51	429.40	396.52	424.89	397.51	425.34
394.67	414.77	395.53	397.28	396.55	406.32	397.52	423.39
394.69	411.63	395.55	407.55	396.57	428.95	397.54	426.43
394.70	418.76	395.57	413.34	396.60	414.38	397.55	452.80
394.74	380.35	395.59	399.86	396.61	402.64	397.58	420.17
394.76	414.47	395.62	414.86	396.62	418.58	397.59	446.56
394.78	388.18	395.66	407.14	396.65	411.22	397.60	406.52
394.79	406.35	395.68	430.05	396.66	413.35	397.63	424.04
394.80	406.99	395.70	429.14	396.70	411.09	397.66	410.90
394.83	422.84	395.71	400.72	396.71	411.08	397.67	405.34
394.84	410.65	395.73	415.47	396.72	415.91	397.68	390.50
394.85	423.74	395.74	425.40	396.74	402.61	397.70	406.12
394.86	409.81	395.75	406.59	396.75	422.26	397.73	402.07
394.87	397.24	395.77	384.66	396.76	402.78	397.78	403.19
394.89	406.89	395.79	421.59	396.77	394.64	397.79	403.99
394.91	409.99	395.82	425.01	396.78	413.31	397.80	424.30
394.92	425.34	395.83	438.14	396.80	378.71	397.82	428.49
394.93	388.22	395.84	420.35	396.81	402.22	397.84	420.85
394.94	403.94	395.86	416.40	396.86	421.16	397.86	402.36
394.95	403.90	395.87	419.19	396.90	401.22	397.87	453.83
394.96	397.97	395.88	402.77	396.93	421.94	397.88	407.14
394.97	396.02	395.89	392.74	396.94	390.73	397.89	428.31
394.98	428.85	395.92	424.67	396.95	398.54	397.90	425.79
394.99	415.24	395.93	402.41	396.97	413.02	397.92	417.32
395.00	422.20	395.94	415.26	396.98	417.18	397.93	410.11
395.01	419.84	395.97	416.59	396.99	412.02	397.94	429.56
395.04	395.52	395.99	417.43	397.00	419.99	397.95	414.70
395.05	413.09	396.03	440.69	397.02	414.73	397.96	408.64
395.06	424.99	396.04	402.83	397.04	413.57	397.97	412.37
395.08	418.11	396.05	409.01	397.05	389.83	397.98	386.40
395.09	412.77	396.07	403.87	397.06	423.74	397.99	427.92
395.10	399.38	396.08	424.89	397.08	408.88	398.03	410.72
395.11	402.76	396.09	414.41	397.09	418.24	398.04	426.24
395.13	426.17	396.12	407.62	397.10	408.03	398.06	412.72
395.14	421.22	396.13	404.64	397.11	411.50	398.08	435.71
395.15	391.44	396.14	415.58	397.12	419.56	398.10	408.26
395.16	419.68	396.16	419.77	397.15	409.34	398.12	417.21
395.17	407.17	396.17	410.17	397.16	420.59	398.14	416.61
395.19	414.91	396.18	417.47	397.17	432.05	398.16	423.55
395.20	413.15	396.20	400.11	397.18	406.92	398.17	419.33
395.21	406.48	396.21	418.01	397.20	403.94	398.18	424.82

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
398.20	418.05	399.18	405.61	400.05	417.01	401.07	433.34
398.25	413.53	399.19	414.90	400.06	428.21	401.10	406.99
398.26	420.24	399.20	438.81	400.07	434.46	401.11	433.98
398.27	395.72	399.21	410.86	400.09	411.58	401.15	413.72
398.30	406.96	399.23	409.31	400.10	412.33	401.17	414.77
398.31	402.14	399.25	402.18	400.13	416.23	401.19	427.47
398.32	415.65	399.26	442.37	400.16	416.06	401.21	427.88
398.34	427.22	399.27	426.04	400.19	421.52	401.22	404.00
398.36	416.07	399.28	403.95	400.20	418.42	401.23	427.18
398.38	417.90	399.29	427.71	400.21	415.56	401.24	412.09
398.39	404.11	399.30	400.98	400.22	414.51	401.26	417.99
398.40	402.72	399.31	398.32	400.25	404.65	401.27	412.60
398.42	409.86	399.32	430.59	400.27	435.72	401.28	394.32
398.45	429.30	399.33	419.20	400.28	402.88	401.29	425.76
398.46	409.12	399.34	407.04	400.30	410.47	401.30	431.13
398.47	401.32	399.36	407.09	400.31	405.73	401.32	417.49
398.48	417.25	399.38	423.78	400.33	414.38	401.33	417.65
398.50	424.34	399.39	423.44	400.34	411.46	401.34	415.67
398.51	407.29	399.40	423.00	400.35	404.20	401.35	415.04
398.52	414.98	399.41	416.80	400.36	406.70	401.37	406.26
398.53	406.88	399.42	424.53	400.38	409.42	401.38	403.98
398.54	398.27	399.43	422.43	400.39	428.93	401.40	421.24
398.55	428.18	399.44	392.46	400.42	411.21	401.44	410.06
398.56	418.15	399.47	406.47	400.43	421.99	401.45	456.23
398.60	419.98	399.48	405.13	400.46	406.39	401.46	437.75
398.61	434.90	399.51	424.69	400.48	438.82	401.47	410.29
398.63	424.24	399.52	438.11	400.51	423.25	401.49	415.33
398.64	416.40	399.53	396.03	400.53	401.59	401.51	445.47
398.65	405.13	399.54	397.46	400.55	429.87	401.52	437.12
398.66	582.84	399.57	410.40	400.57	409.31	401.53	417.52
398.70	420.29	399.58	436.86	400.58	587.53	401.54	582.61
398.71	394.33	399.59	416.30	400.60	428.11	401.55	441.52
398.72	414.47	399.60	416.62	400.62	423.44	401.56	418.02
398.76	407.34	399.61	403.64	400.63	408.64	401.57	414.08
398.77	414.49	399.63	445.53	400.65	417.42	401.60	420.13
398.78	408.34	399.64	405.91	400.67	448.96	401.65	426.76
398.79	401.02	399.67	403.16	400.71	408.37	401.66	418.95
398.80	423.71	399.68	414.63	400.77	403.19	401.67	420.02
398.81	430.44	399.69	411.23	400.78	426.65	401.68	424.65
398.82	412.38	399.71	414.36	400.79	421.36	401.69	413.02
398.83	438.75	399.73	416.83	400.80	398.02	401.70	394.31
398.84	413.00	399.74	626.03	400.81	409.75	401.71	428.16
398.85	583.22	399.75	419.41	400.83	433.58	401.74	422.32
398.86	410.01	399.76	447.76	400.84	414.45	401.76	417.72
398.87	396.80	399.78	403.58	400.85	587.51	401.77	420.84
398.88	412.83	399.80	398.08	400.86	395.91	401.78	425.81
398.90	409.00	399.81	424.30	400.87	426.63	401.80	431.25
398.92	426.43	399.83	401.93	400.88	415.81	401.81	417.09
398.94	412.13	399.84	414.13	400.89	407.62	401.82	415.35
399.00	396.45	399.89	462.72	400.90	403.76	401.84	428.04
399.01	412.79	399.91	420.69	400.91	405.59	401.86	424.26
399.02	399.70	399.92	436.21	400.92	411.92	401.87	404.61
399.04	415.34	399.93	589.11	400.93	414.75	401.89	408.64
399.05	481.15	399.94	407.87	400.94	405.98	401.90	399.19
399.07	401.40	399.96	455.21	400.95	429.31	401.91	421.54
399.10	415.24	399.97	412.75	400.96	388.33	401.93	447.11
399.11	421.32	399.98	416.81	400.97	436.55	401.95	412.36
399.13	411.66	399.99	421.54	400.99	419.61	401.97	412.32
399.15	421.71	400.00	422.09	401.01	421.48	401.98	408.46
399.16	413.69	400.04	450.74	401.02	410.58	401.99	411.24

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
402.01	409.23	403.16	405.64	404.19	421.51	405.38	424.41
402.04	419.69	403.17	415.47	404.23	412.87	405.39	424.57
402.06	422.40	403.18	424.51	404.24	424.65	405.40	413.27
402.08	427.95	403.19	415.36	404.25	412.73	405.41	412.54
402.09	426.74	403.21	447.74	404.26	443.80	405.42	424.67
402.10	651.39	403.22	423.89	404.27	434.74	405.43	428.73
402.14	474.18	403.23	417.88	404.29	413.62	405.44	428.18
402.16	425.99	403.25	427.17	404.31	414.83	405.45	446.52
402.17	413.64	403.26	416.74	404.32	410.11	405.48	415.58
402.18	417.71	403.31	420.91	404.36	413.22	405.51	420.22
402.21	413.73	403.32	422.67	404.38	422.29	405.54	439.43
402.24	423.51	403.35	422.79	404.41	446.51	405.55	421.99
402.26	430.11	403.37	391.40	404.43	419.90	405.57	404.38
402.27	416.30	403.39	427.68	404.44	442.42	405.58	442.53
402.30	420.52	403.40	431.96	404.45	426.29	405.59	442.21
402.32	401.75	403.41	412.24	404.46	459.04	405.60	421.04
402.33	413.67	403.43	416.72	404.47	408.98	405.61	417.88
402.34	420.37	403.44	420.01	404.50	413.59	405.62	397.41
402.35	412.55	403.47	420.69	404.51	416.47	405.64	415.85
402.36	418.92	403.50	424.74	404.53	431.49	405.65	434.13
402.39	415.31	403.52	411.62	404.56	432.66	405.67	418.68
402.40	409.66	403.55	421.45	404.58	429.77	405.68	420.17
402.41	418.49	403.57	426.67	404.59	417.06	405.69	413.00
402.42	399.79	403.60	404.95	404.60	429.90	405.70	436.65
402.45	421.14	403.61	415.28	404.61	417.02	405.71	458.77
402.51	414.05	403.64	409.37	404.63	438.78	405.72	421.20
402.54	428.01	403.66	419.86	404.65	432.82	405.73	409.83
402.56	423.77	403.68	422.76	404.66	408.65	405.76	434.33
402.57	415.92	403.69	436.55	404.70	411.96	405.77	431.24
402.58	422.79	403.70	421.74	404.71	422.82	405.78	427.99
402.60	406.12	403.73	407.51	404.73	449.99	405.79	402.93
402.62	405.17	403.79	425.00	404.74	416.46	405.80	435.34
402.63	422.49	403.80	431.19	404.77	407.21	405.81	459.87
402.68	454.08	403.81	409.80	404.78	419.85	405.82	418.68
402.70	416.97	403.82	411.07	404.82	437.88	405.85	430.44
402.71	402.51	403.83	420.57	404.83	433.60	405.86	431.60
402.72	422.01	403.85	458.62	404.84	404.42	405.88	439.21
402.73	426.42	403.86	423.67	404.87	425.25	405.89	441.43
402.76	403.25	403.87	436.32	404.89	419.57	405.91	415.29
402.80	423.67	403.88	453.46	404.91	419.17	405.93	418.32
402.81	403.76	403.89	418.90	404.92	439.98	405.94	429.65
402.82	413.27	403.90	420.07	404.95	420.30	405.96	425.12
402.83	432.20	403.91	421.05	404.96	426.75	405.97	416.04
402.84	449.07	403.92	433.24	404.97	422.45	405.99	420.55
402.85	431.38	403.93	453.33	404.99	429.33	406.01	420.91
402.86	449.83	403.95	380.52	405.02	425.20	406.03	462.85
402.87	421.69	403.96	422.55	405.04	409.11	406.04	428.26
402.94	412.77	403.97	455.61	405.05	423.37	406.05	416.67
402.96	408.92	403.99	425.20	405.06	394.30	406.06	589.13
402.97	417.41	404.01	409.72	405.11	416.81	406.07	427.38
402.98	420.93	404.02	412.43	405.18	453.96	406.08	408.82
402.99	412.17	404.03	416.51	405.19	437.55	406.09	425.10
403.02	417.37	404.06	438.82	405.24	433.87	406.10	417.92
403.03	435.35	404.08	415.24	405.28	422.68	406.11	407.86
403.07	419.56	404.10	415.72	405.29	426.08	406.14	418.75
403.08	448.99	404.12	425.63	405.30	431.71	406.15	438.88
403.09	410.38	404.13	430.26	405.33	414.67	406.16	404.49
403.11	420.44	404.15	422.17	405.35	430.06	406.17	430.82
403.13	423.65	404.17	433.32	405.36	397.41	406.20	409.99
403.14	415.33	404.18	421.40	405.37	402.38	406.22	423.77

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
406.24	439.12	407.15	458.22	408.19	429.62	409.07	424.45
406.26	403.49	407.16	413.99	408.24	414.13	409.08	417.87
406.27	403.33	407.17	431.82	408.25	432.51	409.09	464.45
406.31	429.38	407.18	583.03	408.26	589.48	409.10	426.15
406.32	449.24	407.20	421.72	408.27	413.89	409.11	441.62
406.33	415.45	407.21	419.19	408.28	440.00	409.12	421.27
406.34	428.95	407.23	434.16	408.30	433.17	409.14	422.98
406.36	420.18	407.24	439.09	408.31	423.37	409.15	391.35
406.37	424.32	407.25	420.85	408.32	403.56	409.16	430.11
406.38	427.00	407.27	590.97	408.33	425.09	409.17	433.26
406.43	651.52	407.30	424.01	408.35	434.58	409.19	423.71
406.46	424.20	407.33	430.50	408.36	590.26	409.21	414.05
406.47	431.32	407.34	464.45	408.37	421.68	409.23	424.95
406.48	430.66	407.35	424.14	408.38	401.63	409.24	410.58
406.49	417.10	407.38	588.70	408.39	419.62	409.25	429.26
406.50	427.14	407.41	405.24	408.41	415.64	409.26	409.40
406.52	412.73	407.42	415.32	408.42	419.66	409.27	438.96
406.54	461.81	407.46	424.73	408.43	429.44	409.29	427.86
406.56	424.34	407.47	418.12	408.45	414.82	409.31	427.65
406.58	422.45	407.49	440.92	408.46	422.66	409.33	434.24
406.59	408.02	407.52	404.89	408.49	433.76	409.36	419.33
406.60	413.54	407.55	431.47	408.50	421.67	409.37	589.42
406.61	408.53	407.56	404.50	408.51	419.26	409.38	411.20
406.62	417.36	407.59	416.60	408.52	424.50	409.40	434.17
406.63	424.39	407.61	416.08	408.53	430.46	409.42	432.04
406.64	414.14	407.62	463.98	408.55	428.60	409.43	420.11
406.67	401.86	407.63	415.20	408.57	432.80	409.45	417.15
406.69	651.94	407.68	414.99	408.58	465.29	409.47	417.75
406.71	432.54	407.70	441.77	408.59	434.07	409.49	416.26
406.72	415.99	407.71	432.99	408.62	431.11	409.50	414.36
406.74	436.98	407.72	434.02	408.63	433.30	409.53	431.30
406.75	387.83	407.74	469.31	408.64	427.97	409.57	427.14
406.76	439.62	407.76	457.40	408.65	413.86	409.61	411.94
406.77	458.94	407.78	422.49	408.66	427.91	409.62	407.83
406.79	430.93	407.79	419.52	408.70	423.76	409.63	420.27
406.80	423.69	407.80	421.81	408.71	420.34	409.65	429.13
406.81	429.13	407.81	581.74	408.72	427.30	409.68	418.86
406.84	420.54	407.82	418.89	408.73	407.03	409.70	428.96
406.85	424.89	407.84	413.49	408.74	430.29	409.71	422.29
406.86	417.40	407.85	431.08	408.75	451.32	409.72	426.41
406.87	415.91	407.86	460.64	408.76	415.84	409.73	442.38
406.89	423.72	407.87	428.57	408.77	424.55	409.74	439.28
406.90	421.40	407.88	411.74	408.80	425.31	409.75	414.29
406.91	405.69	407.90	421.23	408.81	417.05	409.77	435.14
406.92	436.84	407.91	402.09	408.82	423.85	409.79	426.93
406.93	447.66	407.93	411.73	408.83	453.60	409.80	435.13
406.96	506.84	407.95	420.31	408.84	425.95	409.81	410.57
406.97	436.11	407.98	397.42	408.85	404.42	409.82	429.73
406.98	421.88	407.99	410.60	408.86	464.74	409.83	458.61
406.99	445.82	408.01	435.04	408.90	425.12	409.84	440.59
407.00	416.16	408.03	407.99	408.91	460.80	409.86	424.78
407.02	407.84	408.04	419.61	408.93	411.98	409.88	430.41
407.03	447.31	408.07	422.65	408.94	425.49	409.90	419.96
407.04	433.89	408.10	407.63	408.96	427.03	409.94	419.99
407.05	410.80	408.12	404.30	408.97	433.29	409.95	427.59
407.06	405.09	408.14	411.02	408.98	426.16	409.96	437.87
407.10	438.21	408.15	438.52	408.99	407.60	409.98	418.97
407.11	448.68	408.16	415.59	409.01	427.59	410.00	433.40
407.12	445.78	408.17	435.82	409.04	415.38	410.01	416.68
407.14	413.04	408.18	432.30	409.05	419.82	410.05	419.66



PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
410.07	415.75	411.06	397.41	412.04	423.98	412.95	443.73
410.08	435.90	411.07	416.16	412.06	591.72	412.99	421.30
410.09	582.97	411.10	427.93	412.07	417.46	413.01	427.11
410.10	423.05	411.11	433.85	412.08	425.19	413.02	424.95
410.11	429.40	411.12	429.61	412.09	420.45	413.03	425.62
410.12	419.38	411.15	418.92	412.10	428.29	413.04	428.99
410.15	583.89	411.18	444.02	412.11	440.73	413.05	424.09
410.17	412.88	411.20	402.75	412.12	430.91	413.06	422.37
410.18	431.70	411.21	421.55	412.13	423.23	413.07	443.14
410.20	463.62	411.22	442.36	412.14	438.64	413.08	435.65
410.22	423.73	411.23	430.74	412.15	428.47	413.10	431.14
410.23	421.73	411.26	496.95	412.16	426.14	413.11	461.05
410.24	419.49	411.27	425.94	412.18	583.47	413.13	425.30
410.28	414.34	411.28	464.66	412.19	407.91	413.14	424.74
410.30	451.01	411.29	421.31	412.20	450.19	413.15	417.47
410.31	458.76	411.32	420.74	412.23	438.23	413.16	426.27
410.34	417.11	411.34	421.94	412.24	444.57	413.17	438.15
410.37	436.06	411.35	451.14	412.26	427.78	413.18	439.03
410.38	436.16	411.36	422.65	412.28	429.50	413.20	438.83
410.40	425.56	411.38	424.10	412.29	427.25	413.22	651.68
410.41	421.74	411.40	425.46	412.30	443.13	413.23	431.13
410.43	416.07	411.41	418.81	412.33	423.44	413.25	454.74
410.44	435.52	411.42	583.62	412.34	440.25	413.26	424.84
410.45	432.53	411.43	410.28	412.35	434.10	413.27	418.25
410.47	423.01	411.45	452.29	412.36	426.74	413.28	458.48
410.48	432.47	411.46	418.12	412.37	406.61	413.30	420.03
410.49	422.84	411.47	437.77	412.38	452.39	413.31	433.20
410.51	441.80	411.49	433.63	412.39	426.03	413.34	422.20
410.55	438.00	411.51	422.75	412.40	418.14	413.36	449.89
410.56	399.79	411.53	438.36	412.41	431.40	413.37	416.48
410.57	453.27	411.55	467.42	412.42	428.93	413.38	437.32
410.58	439.04	411.56	428.98	412.43	412.17	413.39	420.98
410.60	453.51	411.57	436.02	412.44	426.92	413.42	437.50
410.63	433.67	411.58	430.47	412.45	428.76	413.45	424.62
410.64	412.40	411.59	419.56	412.46	432.06	413.46	465.62
410.65	440.69	411.61	421.76	412.49	431.26	413.47	651.45
410.66	429.01	411.62	421.60	412.50	421.46	413.48	415.04
410.70	435.21	411.65	414.57	412.52	462.38	413.49	414.01
410.71	430.52	411.66	430.95	412.53	426.36	413.51	436.73
410.72	430.14	411.67	417.24	412.54	407.56	413.52	421.89
410.74	434.48	411.68	424.35	412.56	419.13	413.54	442.50
410.75	422.19	411.69	422.71	412.60	438.88	413.55	430.84
410.76	447.39	411.70	434.81	412.62	419.90	413.56	414.24
410.77	436.04	411.71	426.84	412.65	425.54	413.57	429.64
410.78	416.33	411.72	424.04	412.66	428.35	413.61	416.59
410.79	450.77	411.73	404.13	412.68	459.44	413.63	424.40
410.80	426.91	411.74	407.54	412.69	427.23	413.64	459.51
410.81	419.41	411.76	411.64	412.72	409.37	413.65	445.86
410.83	425.15	411.77	391.56	412.75	421.49	413.66	406.74
410.84	425.85	411.82	441.55	412.76	425.35	413.68	651.67
410.88	428.02	411.83	421.68	412.77	432.97	413.69	440.17
410.89	437.13	411.84	421.85	412.78	456.75	413.71	433.61
410.91	451.01	411.87	425.60	412.80	583.44	413.73	437.93
410.95	415.92	411.89	417.76	412.82	590.28	413.74	435.80
410.96	429.08	411.91	430.16	412.83	416.75	413.77	457.03
410.98	413.55	411.92	428.82	412.85	464.21	413.79	436.34
410.99	455.43	411.93	430.48	412.87	454.39	413.80	435.67
411.01	423.45	411.94	422.93	412.91	461.68	413.84	425.86
411.04	422.21	411.97	438.55	412.93	434.05	413.85	432.11
411.05	441.99	412.03	442.52	412.94	444.95	413.91	447.58

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
413.94	403.08	414.88	426.20	415.85	448.03	416.74	409.34
413.96	432.06	414.89	505.33	415.88	423.36	416.75	437.24
413.98	433.98	414.90	434.97	415.89	429.92	416.77	416.64
413.99	436.72	414.91	428.71	415.90	421.05	416.78	415.71
414.00	432.82	414.92	441.06	415.91	428.02	416.81	424.59
414.01	436.18	414.96	443.10	415.94	426.09	416.82	439.06
414.02	432.67	414.97	422.45	415.96	436.34	416.83	467.57
414.03	463.39	414.98	428.83	415.97	426.38	416.86	439.56
414.05	420.06	415.00	451.22	415.98	403.09	416.87	431.60
414.06	422.72	415.01	429.99	415.99	405.72	416.88	427.20
414.08	427.53	415.03	437.63	416.03	431.08	416.89	433.97
414.09	433.00	415.04	437.88	416.06	422.58	416.90	422.48
414.12	431.00	415.06	429.29	416.07	438.17	416.91	439.32
414.14	424.06	415.07	423.65	416.08	452.41	416.92	442.76
414.15	426.51	415.10	441.35	416.09	435.82	416.94	440.29
414.16	438.64	415.11	433.14	416.11	420.80	416.96	429.07
414.17	427.99	415.14	431.69	416.12	432.02	416.97	431.54
414.19	420.89	415.16	428.49	416.13	435.32	416.98	455.83
414.20	441.40	415.17	423.95	416.15	421.45	416.99	423.41
414.21	426.14	415.20	440.12	416.16	427.24	417.00	428.89
414.22	434.67	415.21	425.58	416.17	440.66	417.01	424.69
414.23	471.14	415.22	426.71	416.19	424.34	417.04	419.90
414.26	450.49	415.23	429.09	416.20	434.59	417.05	461.03
414.27	428.73	415.24	444.79	416.24	455.53	417.09	431.63
414.28	435.38	415.29	438.14	416.25	457.13	417.10	445.46
414.29	434.67	415.32	443.40	416.26	459.57	417.11	459.21
414.30	584.24	415.33	428.18	416.27	425.07	417.13	461.41
414.31	418.46	415.34	433.90	416.31	467.30	417.15	432.43
414.32	437.10	415.35	427.72	416.32	420.56	417.16	469.03
414.34	437.42	415.36	410.14	416.33	484.84	417.17	420.32
414.36	437.27	415.37	434.76	416.35	445.58	417.18	441.59
414.37	433.82	415.39	438.71	416.36	442.57	417.20	410.29
414.39	435.10	415.40	444.92	416.37	444.68	417.21	446.06
414.40	416.78	415.41	420.87	416.38	430.19	417.22	445.46
414.45	426.12	415.43	432.14	416.39	424.45	417.24	461.64
414.47	439.32	415.44	421.52	416.40	439.77	417.25	444.09
414.48	428.60	415.45	441.29	416.41	422.87	417.26	434.06
414.49	418.76	415.46	428.70	416.43	432.15	417.30	435.32
414.50	431.29	415.47	442.51	416.44	424.98	417.33	432.05
414.53	423.63	415.49	419.12	416.45	480.73	417.34	423.60
414.54	434.09	415.50	441.08	416.48	455.59	417.36	438.77
414.55	444.74	415.51	590.49	416.49	432.39	417.37	438.37
414.56	432.73	415.55	433.57	416.50	498.16	417.38	436.98
414.58	430.43	415.57	438.31	416.51	434.41	417.40	437.51
414.59	419.86	415.59	421.15	416.52	425.19	417.41	433.75
414.62	431.25	415.61	434.64	416.53	417.26	417.44	439.46
414.63	422.13	415.62	414.78	416.55	428.59	417.45	432.93
414.64	436.66	415.64	424.49	416.56	431.56	417.46	427.33
414.65	429.52	415.65	435.15	416.57	590.04	417.47	443.01
414.66	430.48	415.68	458.34	416.59	424.08	417.48	440.61
414.69	436.59	415.71	426.76	416.60	431.13	417.50	414.36
414.70	435.62	415.72	421.23	416.61	438.23	417.51	431.85
414.73	442.94	415.73	420.26	416.62	437.47	417.52	479.20
414.76	459.84	415.76	432.93	416.64	425.69	417.53	423.38
414.77	423.13	415.77	428.57	416.67	448.00	417.54	427.58
414.79	434.00	415.78	436.19	416.68	422.95	417.55	469.10
414.81	428.43	415.79	429.44	416.69	433.71	417.57	438.35
414.82	444.51	415.80	429.58	416.71	426.91	417.58	422.37
414.83	431.32	415.83	422.51	416.72	442.15	417.61	430.66
414.86	429.11	415.84	426.85	416.73	429.80	417.62	444.53

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
417.66	442.57	418.60	437.20	419.66	425.64	420.67	444.91
417.69	428.44	418.62	433.32	419.68	436.70	420.68	447.60
417.70	420.37	418.64	443.44	419.70	436.10	420.71	443.78
417.71	431.11	418.65	437.82	419.71	467.82	420.72	445.92
417.73	451.16	418.67	429.95	419.72	432.92	420.73	443.47
417.75	428.29	418.70	427.43	419.73	429.97	420.74	409.38
417.76	458.16	418.71	435.63	419.75	439.21	420.75	501.23
417.77	430.15	418.72	439.93	419.76	427.74	420.78	430.13
417.78	430.97	418.76	426.27	419.77	424.55	420.79	445.56
417.79	438.67	418.77	442.53	419.78	443.53	420.80	431.13
417.80	440.04	418.79	423.84	419.79	448.98	420.81	435.24
417.81	437.50	418.80	411.04	419.81	416.52	420.85	438.84
417.82	421.58	418.81	459.86	419.82	448.46	420.86	423.75
417.83	417.52	418.82	436.25	419.83	426.79	420.87	456.25
417.85	416.16	418.83	427.61	419.84	435.89	420.91	438.02
417.86	426.97	418.84	434.77	419.85	432.81	420.92	431.65
417.89	445.27	418.85	439.90	419.86	434.13	420.93	438.17
417.90	422.07	418.88	427.51	419.87	441.93	420.94	436.17
417.91	430.28	418.89	439.36	419.91	445.70	420.98	439.74
417.92	445.21	418.93	432.81	419.93	448.35	421.00	427.15
417.93	491.68	418.94	430.75	419.96	440.94	421.02	439.43
417.94	400.02	418.95	446.55	419.97	426.05	421.03	431.11
417.95	423.64	418.96	427.43	419.99	448.08	421.04	431.07
417.97	446.57	418.97	423.68	420.01	432.65	421.05	429.34
417.99	439.67	418.99	418.17	420.02	459.18	421.07	435.13
418.00	426.92	419.00	435.35	420.05	424.66	421.08	393.87
418.01	447.18	419.01	442.42	420.07	424.58	421.11	444.61
418.02	420.61	419.02	417.60	420.12	439.62	421.12	435.75
418.04	434.88	419.06	417.91	420.14	427.32	421.13	447.26
418.06	449.85	419.10	433.00	420.15	422.24	421.15	439.98
418.08	428.98	419.13	426.50	420.16	423.45	421.18	441.97
418.09	426.95	419.14	426.20	420.17	426.05	421.23	427.93
418.10	419.80	419.16	438.18	420.18	447.86	421.25	441.76
418.13	444.15	419.19	432.83	420.21	414.91	421.26	435.74
418.14	442.40	419.21	437.49	420.22	438.80	421.27	422.86
418.15	433.91	419.23	413.49	420.24	433.40	421.28	445.68
418.18	421.35	419.25	419.66	420.25	442.71	421.29	449.72
418.19	417.01	419.26	591.49	420.28	463.78	421.32	447.77
418.21	460.29	419.28	440.70	420.30	440.53	421.33	451.11
418.22	430.66	419.30	448.31	420.32	589.53	421.35	420.40
418.23	420.87	419.32	462.58	420.37	425.51	421.38	417.95
418.25	449.23	419.33	445.38	420.40	431.21	421.39	427.97
418.27	428.32	419.34	461.06	420.41	423.95	421.40	446.41
418.28	443.57	419.35	438.03	420.43	443.23	421.43	441.56
418.32	421.34	419.37	442.47	420.48	473.81	421.44	590.03
418.35	589.11	419.39	432.37	420.50	435.59	421.46	431.86
418.38	437.16	419.40	426.01	420.51	429.30	421.47	430.85
418.40	434.91	419.41	651.56	420.52	432.35	421.49	472.61
418.41	430.51	419.43	424.69	420.53	464.77	421.50	453.19
418.42	430.92	419.44	435.46	420.54	452.03	421.51	438.20
418.45	444.67	419.45	431.40	420.55	435.25	421.52	444.93
418.46	410.50	419.46	428.77	420.56	438.78	421.54	460.17
418.47	417.82	419.47	434.95	420.58	431.88	421.55	434.05
418.50	416.79	419.48	443.22	420.59	469.60	421.56	436.88
418.51	430.14	419.51	470.29	420.60	437.83	421.57	437.90
418.53	445.40	419.54	408.44	420.61	438.55	421.58	425.35
418.54	452.52	419.57	446.09	420.62	429.75	421.59	425.85
418.56	421.28	419.59	408.60	420.64	429.14	421.60	425.40
418.58	455.42	419.62	438.49	420.65	411.34	421.61	422.02
418.59	449.28	419.63	434.12	420.66	455.08	421.62	405.19

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
421.63	428.05	422.58	590.86	423.48	473.11	424.49	436.66
421.64	434.76	422.61	429.32	423.49	438.71	424.51	450.74
421.65	444.29	422.62	429.85	423.51	427.74	424.52	428.32
421.66	432.72	422.65	443.10	423.52	418.64	424.54	440.99
421.67	437.31	422.66	429.05	423.53	410.84	424.55	434.51
421.70	432.28	422.68	438.96	423.55	452.34	424.57	590.03
421.72	429.03	422.71	447.93	423.58	432.78	424.58	472.53
421.74	424.39	422.75	413.56	423.60	430.14	424.59	432.83
421.75	426.53	422.76	464.23	423.67	441.93	424.61	433.49
421.76	423.62	422.78	452.05	423.69	455.12	424.63	464.96
421.77	428.51	422.79	432.46	423.70	438.77	424.64	452.64
421.79	428.65	422.80	432.15	423.72	434.32	424.65	421.11
421.80	426.30	422.81	583.16	423.73	584.28	424.67	585.15
421.81	416.80	422.82	455.29	423.74	439.10	424.68	426.58
421.83	427.19	422.84	425.86	423.75	452.24	424.71	467.69
421.84	434.09	422.85	426.41	423.76	420.80	424.72	431.15
421.88	440.34	422.86	458.56	423.78	472.91	424.73	431.07
421.89	408.34	422.89	426.93	423.79	443.39	424.76	437.74
421.90	452.26	422.92	432.31	423.80	446.75	424.77	442.89
421.91	402.18	422.93	444.67	423.81	430.80	424.79	416.86
421.92	422.40	422.96	436.46	423.82	439.38	424.82	652.13
421.97	442.64	422.97	451.13	423.84	450.21	424.84	462.04
421.99	438.13	422.98	460.13	423.86	437.83	424.85	435.84
422.00	458.60	422.99	430.42	423.88	467.59	424.87	426.84
422.05	436.50	423.00	424.25	423.89	448.22	424.89	437.92
422.06	450.57	423.01	471.94	423.90	441.40	424.90	449.37
422.07	435.83	423.02	438.68	423.91	443.01	424.91	441.93
422.09	426.39	423.04	438.73	423.93	427.15	424.93	652.10
422.10	448.75	423.05	421.71	423.94	438.65	424.94	439.22
422.11	448.68	423.06	447.73	423.95	439.26	424.95	455.88
422.12	433.07	423.07	473.67	423.96	432.82	424.97	408.54
422.13	428.40	423.08	447.47	423.97	450.73	424.98	441.87
422.16	424.24	423.10	432.32	423.98	430.17	424.99	480.71
422.18	442.48	423.11	426.70	423.99	434.92	425.00	481.24
422.19	437.29	423.13	430.33	424.03	431.94	425.01	429.21
422.20	450.17	423.14	474.64	424.04	444.99	425.03	434.36
422.21	434.88	423.16	433.87	424.05	448.12	425.04	422.37
422.22	465.58	423.17	446.88	424.08	431.51	425.07	433.87
422.23	439.97	423.18	421.05	424.09	468.48	425.08	436.63
422.26	427.76	423.20	440.54	424.10	411.47	425.10	449.30
422.27	435.41	423.21	442.73	424.11	441.95	425.11	472.48
422.28	422.61	423.22	444.71	424.12	433.10	425.13	443.01
422.30	423.95	423.23	434.18	424.16	444.67	425.15	422.35
422.32	417.79	423.25	437.16	424.17	444.37	425.16	460.51
422.33	443.54	423.26	469.91	424.20	427.57	425.18	435.89
422.34	437.48	423.29	450.90	424.25	430.75	425.19	415.26
422.35	415.88	423.30	438.53	424.26	428.38	425.20	420.61
422.36	435.84	423.31	463.01	424.29	438.42	425.21	432.82
422.37	443.34	423.32	440.43	424.30	438.46	425.22	444.45
422.39	456.66	423.33	442.58	424.31	652.45	425.23	453.11
422.41	438.16	423.34	398.34	424.32	433.75	425.24	451.40
422.43	436.87	423.35	427.94	424.33	452.13	425.25	432.67
422.44	449.02	423.36	440.47	424.35	437.65	425.27	462.42
422.45	442.80	423.39	432.83	424.36	590.60	425.28	583.89
422.47	435.29	423.40	439.60	424.37	465.53	425.30	436.69
422.50	433.01	423.41	413.57	424.39	433.25	425.31	432.98
422.51	469.50	423.44	432.24	424.42	440.29	425.33	430.93
422.53	431.12	423.45	426.62	424.43	429.82	425.37	447.66
422.54	443.48	423.46	465.55	424.46	419.20	425.39	436.63
422.57	442.23	423.47	449.92	424.47	436.74	425.40	455.27

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
425.43	428.71	426.46	444.96	427.45	427.86	428.25	449.55
425.46	438.72	426.47	438.24	427.46	442.62	428.26	444.77
425.48	445.82	426.50	435.15	427.47	454.19	428.27	426.34
425.49	476.85	426.51	437.93	427.49	456.22	428.29	442.76
425.50	435.08	426.52	428.30	427.50	456.97	428.33	432.11
425.60	436.42	426.55	423.85	427.52	457.52	428.34	449.35
425.63	434.70	426.56	425.41	427.54	442.13	428.35	433.32
425.64	463.25	426.57	449.81	427.56	434.57	428.36	431.41
425.65	426.83	426.58	426.91	427.57	422.78	428.39	474.83
425.67	591.26	426.59	431.30	427.59	452.76	428.40	447.91
425.69	456.16	426.60	441.92	427.60	490.56	428.41	443.94
425.71	436.03	426.61	491.67	427.62	443.05	428.43	450.50
425.74	430.71	426.62	441.73	427.63	424.07	428.46	477.38
425.75	450.55	426.63	432.39	427.65	454.58	428.47	432.58
425.76	439.71	426.64	590.98	427.66	436.96	428.48	427.84
425.77	439.68	426.66	438.85	427.67	446.44	428.52	456.80
425.79	436.63	426.68	452.23	427.68	589.98	428.54	439.58
425.80	441.91	426.69	444.43	427.69	439.44	428.56	441.47
425.81	439.20	426.70	443.74	427.70	445.04	428.57	448.49
425.82	446.10	426.73	434.22	427.73	433.13	428.59	435.51
425.84	425.16	426.75	446.11	427.74	429.46	428.61	436.66
425.85	438.33	426.79	434.44	427.75	443.52	428.62	442.58
425.87	452.86	426.80	446.86	427.76	449.36	428.63	446.00
425.88	438.92	426.83	435.37	427.77	435.74	428.64	478.79
425.89	434.14	426.84	439.54	427.78	432.35	428.65	652.40
425.91	408.71	426.85	433.04	427.79	448.01	428.67	455.71
425.92	431.29	426.86	456.57	427.80	432.42	428.69	452.12
425.93	446.56	426.89	440.56	427.81	455.56	428.70	439.05
425.95	443.70	426.90	443.41	427.82	463.46	428.72	456.80
425.96	434.43	426.92	434.15	427.84	440.66	428.74	423.14
425.97	455.20	426.93	435.42	427.86	429.02	428.77	451.24
425.98	438.91	426.94	475.66	427.87	430.32	428.80	451.51
426.03	445.31	426.95	426.11	427.88	443.52	428.82	444.87
426.05	439.60	426.96	443.47	427.89	438.11	428.83	425.39
426.06	434.80	426.97	433.55	427.92	442.80	428.85	446.64
426.07	434.83	426.98	445.48	427.93	440.18	428.86	437.44
426.08	462.66	426.99	443.08	427.95	425.22	428.87	451.29
426.10	431.44	427.02	453.94	427.96	432.83	428.88	584.86
426.12	437.92	427.07	443.41	427.97	441.71	428.89	454.29
426.13	590.95	427.09	430.66	427.98	433.51	428.90	456.57
426.15	442.46	427.14	425.51	427.99	589.10	428.91	430.35
426.17	441.28	427.15	446.51	428.00	458.35	428.92	436.54
426.19	430.36	427.16	431.22	428.01	465.81	428.95	476.10
426.20	413.66	427.17	447.52	428.02	452.51	428.96	465.21
426.21	443.81	427.18	467.32	428.03	467.68	428.97	452.72
426.23	435.88	427.19	442.37	428.07	448.12	428.98	428.84
426.24	591.90	427.20	431.50	428.08	474.95	429.00	447.46
426.25	498.04	427.24	459.33	428.09	438.47	429.01	449.10
426.27	439.39	427.25	434.02	428.10	512.67	429.02	445.88
426.29	428.50	427.26	438.97	428.12	449.64	429.05	430.44
426.31	449.94	427.27	449.59	428.14	442.25	429.07	451.28
426.33	463.07	427.28	476.06	428.15	470.41	429.08	453.86
426.34	452.40	427.29	429.37	428.16	469.98	429.09	450.12
426.35	444.54	427.30	436.28	428.17	463.73	429.11	428.40
426.36	431.56	427.31	452.79	428.18	431.59	429.13	585.08
426.37	439.57	427.32	475.05	428.20	439.54	429.14	415.80
426.39	455.25	427.33	426.62	428.21	422.72	429.15	438.43
426.41	436.07	427.35	458.00	428.22	468.75	429.16	437.84
426.42	450.60	427.38	436.93	428.23	449.74	429.17	450.31
426.44	513.20	427.42	470.46	428.24	444.77	429.18	476.81

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
429.19	458.86	430.30	443.62	431.26	446.10	432.11	442.97
429.20	477.64	430.33	452.16	431.27	445.26	432.12	434.19
429.21	419.87	430.34	452.89	431.28	441.65	432.13	461.31
429.22	458.92	430.36	434.14	431.30	523.84	432.14	450.20
429.24	453.77	430.38	421.98	431.31	438.04	432.15	441.37
429.25	460.65	430.39	460.67	431.32	450.61	432.16	652.17
429.29	456.74	430.40	431.10	431.33	441.14	432.17	448.99
429.33	423.23	430.43	447.59	431.34	451.40	432.19	458.10
429.34	590.24	430.44	448.62	431.35	436.38	432.21	427.06
429.35	443.42	430.45	465.97	431.36	466.61	432.22	440.20
429.36	483.24	430.46	440.10	431.37	461.79	432.23	438.48
429.38	467.43	430.47	454.90	431.40	484.03	432.24	457.52
429.40	431.00	430.50	446.85	431.41	431.72	432.27	442.35
429.41	472.75	430.52	470.74	431.44	591.65	432.28	440.64
429.42	430.85	430.53	441.27	431.45	429.75	432.30	438.07
429.43	439.74	430.55	447.40	431.47	452.35	432.32	439.96
429.44	441.51	430.56	451.69	431.48	434.81	432.34	452.16
429.45	591.30	430.60	442.45	431.49	438.35	432.35	443.83
429.46	509.43	430.62	448.00	431.50	451.76	432.36	456.85
429.48	444.55	430.63	442.97	431.51	592.50	432.37	459.06
429.49	462.96	430.65	455.31	431.52	439.93	432.38	438.20
429.50	472.37	430.68	458.03	431.53	438.27	432.40	413.02
429.51	452.00	430.72	425.90	431.54	584.14	432.41	445.16
429.53	455.20	430.73	442.35	431.56	436.58	432.42	450.25
429.54	441.47	430.75	421.89	431.57	407.47	432.43	440.88
429.57	444.97	430.77	449.38	431.59	437.28	432.45	433.26
429.58	449.20	430.78	437.87	431.60	429.02	432.46	451.89
429.59	433.48	430.79	439.38	431.62	438.28	432.47	438.47
429.63	436.24	430.80	449.39	431.63	451.76	432.48	446.97
429.64	446.50	430.82	451.17	431.64	465.36	432.49	434.71
429.66	433.20	430.83	442.86	431.66	652.14	432.50	446.24
429.67	454.09	430.84	446.34	431.67	442.93	432.52	436.89
429.69	457.63	430.85	591.01	431.68	459.09	432.53	450.83
429.72	455.00	430.87	423.35	431.69	447.86	432.54	463.00
429.73	488.53	430.88	450.01	431.70	447.90	432.55	450.46
429.76	449.27	430.89	458.86	431.71	590.69	432.57	437.93
429.77	445.26	430.90	469.79	431.74	431.65	432.58	482.03
429.80	447.96	430.91	452.34	431.75	453.27	432.60	483.91
429.81	456.54	430.92	452.98	431.77	440.96	432.64	434.51
429.82	460.06	430.94	447.31	431.79	407.38	432.65	454.79
429.84	436.86	430.96	444.56	431.83	426.55	432.67	435.52
429.85	455.85	430.97	585.01	431.85	479.13	432.68	423.65
429.91	423.53	430.99	440.68	431.86	456.98	432.69	458.28
429.93	432.20	431.00	448.44	431.87	454.48	432.70	447.19
429.94	457.14	431.01	450.80	431.89	457.49	432.71	459.39
429.96	442.70	431.02	445.37	431.91	439.29	432.72	467.00
430.01	453.95	431.05	455.03	431.92	449.62	432.76	432.12
430.03	434.01	431.06	447.51	431.94	447.53	432.78	453.31
430.04	424.11	431.07	592.08	431.95	437.47	432.81	457.55
430.05	452.67	431.08	438.40	431.96	477.47	432.82	442.14
430.07	453.04	431.12	440.42	431.97	438.81	432.83	412.36
430.09	433.44	431.14	420.47	431.98	504.18	432.84	457.66
430.13	444.29	431.15	441.63	431.99	455.68	432.85	479.02
430.14	425.04	431.16	456.03	432.00	432.66	432.87	452.60
430.18	443.01	431.17	437.92	432.02	436.75	432.89	458.39
430.20	436.76	431.18	467.81	432.04	458.29	432.90	447.52
430.21	428.29	431.21	456.77	432.06	436.82	432.92	441.51
430.26	435.27	431.22	430.22	432.07	459.27	432.93	446.93
430.28	442.54	431.23	444.00	432.09	443.86	432.94	466.86
430.29	433.33	431.24	454.34	432.10	448.65	432.95	459.30

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
432.96	438.09	433.86	435.61	434.78	446.13	435.71	432.66
432.97	464.60	433.90	479.58	434.79	516.59	435.72	459.17
432.98	456.21	433.91	466.47	434.81	429.83	435.79	458.42
432.99	456.64	433.93	453.87	434.83	590.89	435.80	448.96
433.00	442.95	433.94	439.96	434.84	438.03	435.81	449.06
433.04	450.01	433.95	437.77	434.85	594.43	435.82	461.16
433.07	434.39	433.99	444.43	434.86	592.35	435.83	439.95
433.08	462.91	434.00	454.81	434.87	459.11	435.84	462.93
433.09	430.20	434.01	584.60	434.90	447.24	435.85	460.96
433.10	466.16	434.04	590.84	434.91	413.94	435.86	446.33
433.13	445.38	434.06	446.08	434.92	528.02	435.87	446.06
433.14	478.86	434.08	446.19	434.94	446.93	435.88	446.41
433.15	442.55	434.09	468.12	434.96	435.42	435.89	593.51
433.17	442.37	434.10	435.70	434.97	436.09	435.92	457.72
433.20	452.14	434.13	462.29	434.98	448.19	435.93	468.91
433.23	423.27	434.14	421.19	434.99	459.08	435.94	425.31
433.24	441.47	434.15	469.83	435.04	443.88	435.95	456.33
433.25	472.58	434.18	418.10	435.09	450.55	435.96	444.36
433.26	440.69	434.19	461.40	435.10	437.76	435.98	516.71
433.27	440.47	434.20	460.52	435.13	458.93	435.99	455.41
433.29	463.47	434.21	460.84	435.14	438.37	436.01	466.02
433.30	437.05	434.23	439.29	435.15	456.09	436.03	444.88
433.31	447.86	434.24	458.29	435.16	448.24	436.04	468.64
433.32	434.58	434.25	440.63	435.17	591.44	436.08	441.26
433.35	466.32	434.26	450.81	435.18	464.54	436.09	464.89
433.36	430.88	434.27	453.49	435.21	446.77	436.10	444.55
433.37	593.16	434.28	434.50	435.22	453.75	436.12	456.44
433.38	484.52	434.29	445.02	435.23	428.86	436.13	479.96
433.39	451.53	434.30	443.09	435.24	455.26	436.15	452.35
433.40	447.27	434.31	445.86	435.27	479.85	436.16	443.34
433.42	439.52	434.35	455.98	435.28	435.55	436.17	458.30
433.43	441.16	434.37	441.92	435.29	452.67	436.18	439.95
433.45	467.41	434.38	435.43	435.30	449.49	436.21	483.83
433.48	437.31	434.39	590.94	435.31	448.39	436.23	460.11
433.49	452.96	434.40	454.66	435.33	448.20	436.24	449.07
433.50	458.60	434.41	454.98	435.37	426.69	436.26	465.48
433.51	438.00	434.45	477.38	435.38	450.34	436.27	452.93
433.52	453.76	434.46	448.85	435.39	456.95	436.28	464.25
433.53	452.86	434.47	453.47	435.40	455.77	436.30	457.55
433.54	439.70	434.48	450.03	435.41	445.28	436.31	459.80
433.55	431.70	434.50	444.99	435.42	450.36	436.34	449.00
433.57	444.35	434.51	451.70	435.43	442.54	436.37	446.84
433.59	445.32	434.52	443.81	435.45	438.34	436.38	459.60
433.60	472.84	434.53	442.72	435.46	458.28	436.39	458.71
433.61	458.29	434.54	439.88	435.47	453.99	436.42	451.68
433.62	437.55	434.56	462.99	435.49	482.44	436.43	478.06
433.64	449.68	434.57	450.56	435.50	477.38	436.46	445.41
433.66	456.98	434.59	463.92	435.52	453.50	436.48	447.32
433.68	459.65	434.60	445.89	435.53	443.51	436.49	449.55
433.69	446.08	434.61	443.46	435.54	450.06	436.50	444.37
433.70	455.92	434.62	452.52	435.56	440.31	436.51	460.09
433.73	443.25	434.63	585.02	435.57	440.41	436.52	427.74
433.76	461.29	434.66	477.42	435.58	432.72	436.53	464.44
433.77	453.75	434.68	478.13	435.63	452.33	436.54	449.72
433.79	449.18	434.70	455.96	435.64	454.29	436.55	476.44
433.81	591.88	434.72	458.54	435.65	444.22	436.56	448.09
433.82	446.76	434.73	450.58	435.66	453.10	436.58	461.69
433.83	448.14	434.74	441.07	435.67	454.78	436.59	449.57
433.84	446.17	434.75	446.33	435.68	457.46	436.60	447.56
433.85	455.77	434.76	490.04	435.70	486.32	436.65	476.18

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
436.66	434.26	437.48	465.06	438.36	490.55	439.34	442.22
436.67	445.78	437.49	450.71	438.38	458.54	439.37	448.21
436.68	591.99	437.53	456.13	438.39	462.48	439.39	457.04
436.69	434.57	437.54	450.07	438.41	457.86	439.40	453.40
436.70	456.78	437.55	423.41	438.42	445.54	439.41	450.13
436.71	444.09	437.56	440.75	438.43	457.68	439.42	462.00
436.72	456.12	437.57	442.85	438.44	470.33	439.43	453.30
436.73	456.19	437.58	474.09	438.46	448.70	439.44	448.55
436.74	473.94	437.59	447.65	438.48	457.62	439.45	592.90
436.77	492.50	437.61	447.61	438.49	456.40	439.46	452.12
436.78	439.14	437.63	448.08	438.52	454.65	439.47	458.79
436.82	456.21	437.64	446.73	438.53	455.84	439.48	449.49
436.87	456.79	437.68	462.22	438.54	449.87	439.49	450.79
436.88	485.02	437.69	457.46	438.55	430.38	439.51	448.71
436.89	436.44	437.70	457.11	438.56	441.38	439.52	442.96
436.90	451.77	437.72	442.25	438.60	450.91	439.53	470.96
436.92	452.25	437.73	450.29	438.61	446.33	439.54	446.06
436.93	446.77	437.74	442.85	438.63	452.69	439.56	450.20
436.95	437.16	437.75	481.46	438.67	420.55	439.57	467.97
436.96	490.77	437.77	444.21	438.69	459.08	439.58	451.60
436.97	457.49	437.78	471.70	438.73	452.57	439.61	463.47
436.98	591.45	437.80	459.93	438.74	443.37	439.63	590.62
437.01	447.16	437.81	451.05	438.76	465.01	439.64	450.25
437.02	448.81	437.82	437.65	438.78	438.18	439.67	449.46
437.04	456.84	437.83	457.14	438.79	468.25	439.68	451.88
437.05	463.38	437.84	461.25	438.80	430.52	439.70	456.46
437.06	441.72	437.89	457.75	438.82	441.54	439.71	446.48
437.07	449.37	437.90	454.54	438.83	446.49	439.74	435.22
437.08	447.06	437.92	432.74	438.84	453.88	439.75	448.47
437.11	462.43	437.94	452.81	438.86	454.06	439.76	461.05
437.12	463.56	437.95	440.23	438.87	450.06	439.77	449.81
437.13	458.27	437.96	439.36	438.90	452.39	439.78	433.03
437.14	449.24	437.97	481.93	438.91	451.94	439.79	443.09
437.16	487.07	437.98	453.49	438.92	437.60	439.80	444.42
437.17	455.95	438.00	432.02	438.95	462.65	439.81	450.84
437.18	455.23	438.02	444.77	438.97	460.51	439.83	436.55
437.20	427.03	438.04	458.73	438.99	440.84	439.84	458.35
437.21	438.11	438.05	525.95	439.00	491.79	439.85	438.77
437.22	441.48	438.06	452.83	439.01	450.63	439.87	469.30
437.23	440.52	438.07	452.69	439.04	451.32	439.88	457.78
437.24	443.10	438.09	447.99	439.07	445.46	439.89	446.52
437.25	462.50	438.10	460.16	439.08	461.93	439.95	476.43
437.26	450.18	438.11	457.74	439.09	452.79	439.96	471.02
437.27	417.15	438.12	454.42	439.10	460.82	439.97	450.84
437.28	446.98	438.13	470.70	439.11	484.39	439.98	457.44
437.29	448.27	438.15	462.86	439.12	446.02	439.99	464.66
437.30	456.44	438.16	460.44	439.13	457.59	440.01	455.19
437.31	461.43	438.18	444.81	439.14	465.67	440.03	445.05
437.32	421.39	438.19	444.21	439.15	443.58	440.04	455.55
437.33	468.00	438.20	483.62	439.19	444.23	440.05	454.93
437.34	446.15	438.22	448.13	439.22	585.61	440.07	473.79
437.37	447.58	438.23	478.70	439.23	443.26	440.08	440.93
437.38	442.24	438.24	447.24	439.24	449.79	440.10	450.30
437.40	442.21	438.25	445.22	439.25	458.49	440.11	460.51
437.41	483.76	438.28	455.80	439.26	449.27	440.13	455.38
437.42	446.65	438.29	447.24	439.27	456.11	440.14	448.31
437.44	452.23	438.30	437.63	439.29	458.45	440.15	455.05
437.45	451.51	438.31	455.22	439.31	446.02	440.16	438.80
437.46	452.08	438.32	652.34	439.32	485.80	440.18	458.15
437.47	458.82	438.34	463.05	439.33	478.00	440.19	484.41



PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
440.21	444.95	441.01	447.00	441.95	446.00	442.70	493.23
440.22	482.18	441.02	458.34	441.96	485.41	442.72	455.35
440.23	456.79	441.03	460.25	441.97	459.24	442.73	447.42
440.25	434.53	441.04	460.57	441.99	436.82	442.74	458.02
440.26	441.21	441.05	454.05	442.00	460.55	442.75	458.10
440.27	480.16	441.06	592.68	442.01	454.89	442.77	461.37
440.28	483.59	441.07	453.48	442.02	439.25	442.78	432.67
440.29	460.95	441.08	481.29	442.03	462.48	442.79	478.74
440.30	450.12	441.09	652.35	442.04	454.23	442.80	462.89
440.31	442.26	441.10	463.86	442.05	450.35	442.83	440.99
440.32	423.12	441.12	438.93	442.06	448.57	442.84	451.49
440.33	449.48	441.14	463.15	442.07	450.20	442.85	442.50
440.35	476.03	441.15	443.66	442.08	442.56	442.86	482.70
440.36	585.80	441.16	439.51	442.09	592.06	442.87	456.80
440.37	448.23	441.17	440.20	442.11	460.04	442.89	465.31
440.38	449.09	441.20	584.39	442.12	472.54	442.91	458.13
440.39	445.79	441.22	462.74	442.13	455.08	442.92	444.64
440.40	468.93	441.25	434.06	442.14	466.00	442.93	455.68
440.41	466.02	441.28	442.90	442.15	592.45	442.94	453.24
440.42	460.22	441.29	436.31	442.17	458.20	442.96	451.24
440.43	462.61	441.30	464.04	442.18	455.61	442.99	459.12
440.44	453.66	441.32	466.07	442.19	436.82	443.00	456.46
440.45	460.45	441.33	465.12	442.20	455.18	443.01	439.28
440.48	447.03	441.36	452.85	442.21	447.22	443.02	423.03
440.49	483.03	441.37	469.40	442.23	452.74	443.07	452.80
440.51	450.41	441.38	452.52	442.24	456.75	443.09	591.87
440.53	447.40	441.39	442.54	442.25	455.02	443.10	459.99
440.54	443.44	441.40	451.34	442.26	456.40	443.11	449.85
440.56	453.48	441.41	458.57	442.28	461.13	443.12	466.17
440.57	446.88	441.43	450.26	442.29	590.80	443.13	449.09
440.58	591.90	441.44	434.66	442.30	461.21	443.14	459.25
440.60	449.81	441.47	465.95	442.31	446.35	443.17	448.21
440.61	447.94	441.49	447.98	442.32	459.48	443.18	459.93
440.62	447.80	441.51	488.81	442.33	594.24	443.19	460.13
440.64	455.20	441.52	462.62	442.34	458.69	443.23	585.00
440.65	483.83	441.53	457.46	442.36	453.54	443.26	471.72
440.66	448.14	441.54	455.36	442.37	467.97	443.28	449.13
440.67	450.84	441.55	451.61	442.38	462.63	443.29	449.20
440.68	449.54	441.56	451.24	442.41	474.98	443.33	463.76
440.69	456.06	441.57	445.17	442.42	450.80	443.36	452.19
440.70	449.63	441.58	449.74	442.43	492.32	443.37	459.16
440.71	452.09	441.59	455.12	442.44	441.74	443.39	447.46
440.73	459.00	441.62	447.59	442.45	591.32	443.40	450.00
440.75	448.74	441.63	451.18	442.46	450.62	443.41	458.62
440.76	456.23	441.64	447.06	442.48	467.82	443.42	452.70
440.78	460.64	441.65	451.81	442.49	453.55	443.44	445.11
440.79	482.89	441.66	454.58	442.51	435.75	443.45	454.21
440.80	441.25	441.67	462.14	442.52	460.71	443.46	450.18
440.81	455.83	441.68	452.24	442.53	461.50	443.47	464.16
440.84	481.77	441.72	466.42	442.54	591.11	443.49	486.76
440.85	449.73	441.74	450.53	442.56	451.92	443.51	481.02
440.87	464.45	441.80	459.03	442.57	460.40	443.53	461.40
440.88	482.31	441.82	465.22	442.59	442.09	443.54	456.45
440.89	455.26	441.84	463.02	442.61	467.86	443.55	455.38
440.90	454.39	441.85	457.71	442.62	457.92	443.56	451.09
440.92	585.30	441.86	594.61	442.63	465.71	443.57	450.29
440.94	450.36	441.88	480.87	442.66	451.24	443.59	437.61
440.97	458.40	441.90	465.48	442.67	458.25	443.60	452.42
440.99	440.41	441.92	488.27	442.68	481.60	443.62	447.35
441.00	463.29	441.94	439.64	442.69	464.05	443.64	467.03

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
443.65	442.64	444.43	463.76	445.33	455.71	446.23	466.09
443.66	460.64	444.45	448.73	445.35	469.48	446.24	450.68
443.67	470.79	444.46	592.79	445.36	465.26	446.26	461.51
443.68	455.04	444.47	462.29	445.37	451.20	446.27	473.08
443.69	452.54	444.48	440.19	445.39	458.13	446.28	469.93
443.70	451.02	444.49	449.40	445.43	459.48	446.29	461.05
443.71	435.81	444.50	455.75	445.44	453.59	446.30	432.18
443.72	463.58	444.51	456.61	445.45	450.75	446.31	454.98
443.73	595.27	444.52	594.52	445.47	453.70	446.32	471.01
443.74	462.73	444.53	455.13	445.48	459.14	446.34	457.65
443.76	455.45	444.58	473.63	445.49	475.42	446.36	463.56
443.77	453.48	444.60	447.67	445.50	449.80	446.38	495.02
443.78	486.74	444.61	462.11	445.51	448.76	446.39	592.61
443.79	451.89	444.62	457.55	445.52	466.97	446.40	652.38
443.80	469.36	444.63	456.61	445.53	452.43	446.41	454.18
443.81	443.51	444.66	461.08	445.54	467.94	446.44	466.84
443.82	471.26	444.67	468.68	445.55	475.88	446.45	484.20
443.83	473.36	444.71	457.97	445.56	529.35	446.46	465.14
443.84	455.34	444.72	451.84	445.57	457.79	446.48	472.34
443.85	466.53	444.73	450.34	445.58	459.52	446.49	471.27
443.86	447.31	444.74	447.67	445.62	484.70	446.50	454.69
443.87	487.55	444.75	463.49	445.63	439.81	446.52	470.42
443.88	457.57	444.77	465.57	445.65	469.64	446.53	465.22
443.89	493.96	444.78	456.31	445.66	481.41	446.56	432.98
443.90	458.56	444.79	416.18	445.68	457.56	446.58	467.69
443.92	443.86	444.80	652.46	445.70	495.54	446.59	458.21
443.93	452.46	444.83	492.88	445.71	449.81	446.60	489.09
443.94	452.62	444.84	440.71	445.72	460.38	446.62	462.62
443.95	463.79	444.85	476.66	445.73	457.32	446.63	468.60
443.97	433.87	444.86	594.16	445.74	460.14	446.64	451.32
443.98	460.06	444.87	486.09	445.76	419.36	446.65	455.72
443.99	439.60	444.89	425.23	445.77	594.32	446.66	450.77
444.00	489.98	444.90	452.93	445.79	448.44	446.67	450.79
444.01	468.70	444.91	448.83	445.80	457.53	446.68	443.04
444.02	442.30	444.92	465.88	445.81	458.76	446.69	454.01
444.03	456.50	444.93	456.01	445.83	454.74	446.73	458.00
444.04	443.53	444.95	454.81	445.84	473.66	446.74	596.13
444.05	438.54	444.98	444.66	445.85	450.06	446.75	467.94
444.06	450.20	444.99	458.33	445.86	465.10	446.78	465.89
444.07	465.32	445.02	452.22	445.90	463.05	446.79	531.58
444.08	446.87	445.03	465.67	445.91	457.81	446.80	452.29
444.10	453.21	445.04	465.76	445.92	451.45	446.81	464.54
444.13	477.14	445.05	449.71	445.93	540.07	446.83	490.66
444.14	454.62	445.07	455.98	445.94	494.64	446.84	448.62
444.15	447.45	445.10	452.82	445.96	425.14	446.85	592.65
444.16	439.39	445.11	459.28	445.97	453.29	446.87	454.83
444.18	485.77	445.13	455.90	445.99	461.93	446.90	593.00
444.20	449.13	445.14	459.22	446.00	456.71	446.92	466.79
444.22	461.87	445.15	474.98	446.01	456.31	446.94	468.90
444.23	460.34	445.16	474.55	446.03	452.51	446.96	452.40
444.24	473.60	445.17	445.74	446.04	455.94	446.97	453.16
444.25	454.33	445.18	465.14	446.07	471.64	446.98	468.78
444.26	438.20	445.20	463.78	446.10	448.98	446.99	484.24
444.28	481.11	445.22	465.18	446.12	461.73	447.01	450.23
444.32	439.50	445.23	440.46	446.14	456.00	447.03	449.46
444.33	441.93	445.24	456.84	446.15	455.29	447.05	451.41
444.38	466.86	445.25	462.91	446.16	457.03	447.07	467.01
444.40	468.35	445.26	397.83	446.17	460.53	447.09	464.68
444.41	439.48	445.29	463.38	446.18	453.93	447.10	430.33
444.42	463.69	445.30	446.14	446.20	467.54	447.12	469.53

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
447.13	472.78	448.04	482.71	448.87	467.34	449.65	450.07
447.15	490.17	448.05	468.98	448.88	453.09	449.66	467.20
447.17	470.71	448.06	449.37	448.89	468.69	449.67	484.10
447.18	482.10	448.08	450.61	448.90	472.01	449.68	446.00
447.19	462.04	448.09	463.83	448.91	517.76	449.69	466.32
447.21	453.46	448.10	467.95	448.93	460.64	449.71	456.88
447.22	479.85	448.12	461.52	448.94	456.13	449.72	475.12
447.23	460.07	448.14	482.34	448.97	477.57	449.74	456.15
447.32	462.63	448.15	458.42	448.98	472.04	449.75	479.98
447.33	586.22	448.16	453.64	448.99	449.28	449.77	463.96
447.34	460.38	448.17	468.86	449.00	453.20	449.80	465.56
447.35	469.90	448.18	594.35	449.01	471.39	449.81	652.58
447.36	450.29	448.19	452.36	449.02	592.94	449.83	467.74
447.38	467.95	448.20	463.16	449.03	457.45	449.85	460.05
447.39	454.74	448.21	447.70	449.04	449.16	449.87	435.73
447.41	460.55	448.22	473.09	449.05	459.42	449.90	459.68
447.42	488.84	448.23	456.47	449.06	476.04	449.93	455.54
447.43	456.08	448.24	452.77	449.07	497.97	449.95	456.24
447.44	529.29	448.27	464.93	449.08	459.27	449.96	475.61
447.45	474.02	448.29	467.95	449.09	461.18	449.97	461.99
447.47	450.54	448.33	449.64	449.11	452.68	449.98	491.31
447.48	464.49	448.34	458.97	449.12	507.80	449.99	463.67
447.49	468.39	448.37	474.27	449.13	452.11	450.02	461.25
447.51	531.96	448.38	504.92	449.15	456.23	450.03	476.42
447.52	445.93	448.40	460.48	449.17	473.08	450.05	452.12
447.53	431.06	448.41	463.29	449.18	453.87	450.09	459.92
447.55	447.37	448.42	450.37	449.20	476.98	450.12	470.59
447.56	485.48	448.43	594.24	449.22	449.59	450.14	470.06
447.59	468.77	448.45	470.76	449.23	450.41	450.15	468.36
447.60	456.59	448.47	480.43	449.24	475.73	450.16	465.82
447.61	454.48	448.48	457.81	449.25	451.76	450.17	462.32
447.62	466.46	448.49	452.56	449.27	456.70	450.18	473.20
447.63	455.05	448.50	467.78	449.30	477.25	450.19	469.81
447.65	461.94	448.51	444.99	449.31	457.20	450.20	458.47
447.66	440.78	448.52	454.95	449.32	471.10	450.21	448.47
447.70	585.56	448.54	472.05	449.33	459.79	450.23	462.62
447.72	495.62	448.55	454.72	449.34	459.72	450.24	459.60
447.73	456.18	448.56	492.68	449.35	466.18	450.28	451.30
447.74	460.10	448.57	446.26	449.37	439.17	450.30	453.98
447.75	469.64	448.58	458.26	449.38	455.18	450.31	594.33
447.76	439.44	448.59	453.24	449.39	485.47	450.32	440.22
447.77	476.36	448.60	470.21	449.40	484.03	450.33	461.27
447.82	455.42	448.61	446.52	449.41	466.23	450.34	413.94
447.83	456.60	448.64	466.52	449.42	466.25	450.35	454.07
447.84	447.20	448.66	490.40	449.45	465.73	450.36	468.32
447.86	465.75	448.68	464.76	449.47	446.40	450.39	463.04
447.87	467.12	448.69	591.48	449.48	468.57	450.42	460.83
447.89	457.58	448.72	525.16	449.49	492.41	450.44	467.01
447.90	459.92	448.73	463.20	449.50	469.72	450.48	469.52
447.91	462.96	448.74	458.14	449.51	462.49	450.50	585.10
447.93	465.35	448.75	455.60	449.54	486.49	450.51	470.56
447.95	453.45	448.76	466.96	449.55	457.46	450.54	495.76
447.96	461.95	448.77	463.76	449.56	423.50	450.55	459.15
447.97	468.86	448.78	443.14	449.57	432.15	450.58	463.74
447.98	450.55	448.79	482.65	449.58	457.46	450.59	468.94
447.99	652.39	448.80	472.79	449.60	448.20	450.61	469.44
448.00	461.05	448.81	467.78	449.61	447.06	450.62	463.34
448.01	417.28	448.83	472.55	449.62	498.46	450.63	436.98
448.02	463.07	448.84	463.11	449.63	593.96	450.64	461.29
448.03	592.89	448.86	453.68	449.64	469.75	450.67	451.56

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
450.69	463.96	451.51	439.57	452.39	593.41	453.25	461.24
450.70	466.24	451.52	465.13	452.40	454.84	453.26	468.62
450.71	442.35	451.53	461.36	452.41	473.75	453.27	457.17
450.72	591.80	451.54	456.18	452.42	465.61	453.28	434.96
450.73	460.15	451.55	462.10	452.43	466.42	453.29	466.55
450.75	464.87	451.57	462.69	452.44	500.19	453.30	501.69
450.76	464.78	451.58	468.20	452.46	446.09	453.31	492.39
450.77	464.65	451.61	460.52	452.48	453.95	453.32	448.57
450.80	456.34	451.62	462.79	452.49	471.88	453.33	450.61
450.83	592.38	451.63	479.54	452.50	466.12	453.35	465.03
450.86	471.39	451.64	458.76	452.52	473.43	453.36	475.24
450.89	461.55	451.65	592.25	452.54	461.03	453.37	484.24
450.91	477.97	451.66	479.65	452.56	450.38	453.38	466.27
450.92	482.31	451.68	455.70	452.59	458.93	453.39	464.41
450.94	450.87	451.69	467.67	452.60	460.98	453.41	463.83
450.95	471.05	451.70	466.25	452.61	464.08	453.42	496.80
450.96	469.42	451.71	505.58	452.62	593.99	453.43	466.24
450.97	457.24	451.73	479.22	452.64	452.67	453.44	590.97
450.98	465.90	451.78	465.53	452.65	460.17	453.45	470.64
451.00	464.57	451.80	441.73	452.67	486.41	453.47	477.84
451.01	495.17	451.81	456.51	452.69	471.57	453.50	453.50
451.02	478.81	451.82	464.37	452.70	491.51	453.51	461.96
451.03	465.38	451.83	454.02	452.71	449.24	453.52	470.59
451.04	496.85	451.84	464.99	452.72	463.56	453.53	593.32
451.05	469.88	451.85	461.06	452.73	461.55	453.54	468.98
451.06	457.05	451.86	476.37	452.76	458.72	453.55	463.48
451.08	486.40	451.87	472.45	452.77	455.98	453.56	474.34
451.09	472.86	451.88	443.66	452.79	488.91	453.57	486.18
451.10	486.21	451.90	455.20	452.81	464.65	453.58	455.49
451.11	593.32	451.91	442.63	452.82	461.85	453.59	473.74
451.12	453.07	451.92	468.48	452.84	460.21	453.60	459.55
451.14	448.80	451.93	473.54	452.85	471.56	453.61	474.30
451.15	477.28	451.95	460.66	452.87	458.88	453.64	474.27
451.16	444.40	451.97	452.64	452.88	467.26	453.66	476.73
451.17	454.71	451.98	461.49	452.89	457.84	453.67	480.89
451.19	458.99	452.00	473.78	452.90	464.44	453.68	591.83
451.20	464.21	452.02	458.88	452.92	462.97	453.69	474.13
451.21	449.67	452.07	459.61	452.95	462.19	453.70	536.51
451.23	464.89	452.08	492.29	452.96	467.93	453.71	469.21
451.24	468.27	452.09	458.46	452.97	473.94	453.72	476.95
451.25	458.70	452.13	456.74	452.98	463.54	453.73	458.78
451.27	496.70	452.14	466.73	452.99	457.92	453.74	446.74
451.28	455.93	452.15	457.21	453.01	626.67	453.75	469.90
451.29	460.23	452.16	470.86	453.02	478.56	453.77	652.09
451.30	464.99	452.17	496.17	453.03	466.43	453.78	456.70
451.31	464.23	452.18	456.85	453.04	474.86	453.79	480.76
451.32	491.53	452.21	448.46	453.05	464.49	453.83	470.51
451.34	462.99	452.22	467.48	453.06	478.39	453.84	474.53
451.35	462.47	452.23	454.61	453.07	464.11	453.86	470.76
451.37	500.75	452.24	470.19	453.08	455.05	453.87	475.44
451.39	463.17	452.25	476.82	453.11	472.44	453.88	473.76
451.40	451.81	452.26	471.16	453.12	479.08	453.90	460.02
451.41	456.74	452.27	491.99	453.14	452.92	453.91	478.41
451.42	469.00	452.28	484.99	453.15	585.69	453.93	457.48
451.43	479.57	452.29	454.83	453.16	460.83	453.94	480.20
451.44	469.99	452.30	460.84	453.17	475.48	453.96	463.74
451.45	464.72	452.32	471.63	453.18	469.83	453.97	467.98
451.46	444.93	452.33	465.27	453.20	475.94	453.98	476.58
451.48	469.61	452.37	495.15	453.23	585.45	453.99	499.85
451.50	468.77	452.38	652.33	453.24	455.33	454.00	455.05

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
454.01	461.99	454.92	457.31	455.84	520.61	456.63	497.57
454.03	457.05	454.93	463.48	455.85	478.30	456.65	501.16
454.05	473.93	454.94	459.89	455.86	470.77	456.66	506.57
454.06	500.12	454.95	472.53	455.87	469.58	456.67	457.76
454.08	471.36	454.96	453.54	455.90	462.79	456.69	479.95
454.09	465.95	454.97	474.04	455.91	489.89	456.74	476.30
454.11	474.40	454.98	475.47	455.93	469.76	456.75	462.19
454.12	459.26	455.00	456.39	455.95	465.26	456.76	478.08
454.16	468.16	455.01	455.31	455.96	452.51	456.77	457.01
454.17	434.83	455.02	483.90	455.98	468.56	456.78	461.64
454.20	457.45	455.03	410.03	455.99	520.56	456.80	478.80
454.21	466.11	455.05	454.11	456.00	475.63	456.81	504.86
454.23	458.55	455.07	463.03	456.01	467.90	456.82	455.17
454.24	463.96	455.09	502.62	456.02	489.13	456.83	596.91
454.25	474.16	455.13	488.33	456.03	483.14	456.84	457.25
454.27	462.33	455.15	477.30	456.04	467.41	456.86	466.64
454.28	468.49	455.18	476.75	456.05	467.18	456.87	462.84
454.29	468.15	455.19	449.64	456.06	464.39	456.88	538.59
454.30	467.77	455.23	473.44	456.08	479.12	456.89	489.23
454.32	468.30	455.25	480.30	456.10	480.66	456.91	467.64
454.33	461.40	455.26	461.80	456.11	477.11	456.94	477.24
454.34	484.57	455.27	473.76	456.12	477.18	456.96	519.27
454.35	455.98	455.28	503.03	456.14	460.62	456.97	467.20
454.36	448.29	455.29	528.45	456.15	463.83	456.98	471.32
454.37	448.28	455.30	468.49	456.16	473.36	456.99	466.32
454.39	457.25	455.31	470.51	456.17	501.31	457.01	466.00
454.40	460.97	455.32	448.12	456.18	466.50	457.02	586.04
454.41	503.47	455.33	503.98	456.20	432.21	457.03	463.27
454.42	461.36	455.36	484.52	456.22	484.98	457.04	467.12
454.43	468.19	455.37	652.63	456.23	468.09	457.05	480.35
454.45	464.63	455.40	466.26	456.24	499.51	457.07	466.29
454.46	476.16	455.45	467.08	456.28	472.40	457.08	468.41
454.47	458.56	455.46	442.72	456.29	460.93	457.09	477.12
454.49	456.32	455.47	457.75	456.30	453.13	457.10	468.65
454.51	463.28	455.49	468.20	456.31	508.29	457.11	462.00
454.53	464.97	455.50	471.44	456.32	467.55	457.12	470.46
454.55	462.15	455.52	475.55	456.33	467.65	457.13	457.02
454.56	476.15	455.53	464.06	456.34	476.02	457.14	463.26
454.57	468.32	455.55	457.71	456.35	480.46	457.17	477.71
454.59	451.86	455.56	458.51	456.36	472.98	457.18	470.71
454.60	469.52	455.57	476.38	456.37	467.51	457.19	585.41
454.64	461.41	455.59	466.15	456.40	451.65	457.20	477.44
454.67	455.31	455.60	483.38	456.41	457.83	457.21	456.00
454.68	474.29	455.61	595.79	456.42	462.98	457.22	481.12
454.71	466.66	455.62	459.23	456.44	475.56	457.24	459.96
454.72	449.92	455.63	479.54	456.45	502.04	457.27	499.80
454.74	457.92	455.64	470.44	456.46	493.76	457.28	468.17
454.75	466.64	455.65	479.49	456.47	477.32	457.29	480.37
454.76	468.66	455.66	453.06	456.48	472.60	457.31	463.02
454.77	463.68	455.68	464.69	456.49	477.94	457.32	476.09
454.80	472.91	455.70	474.71	456.50	459.45	457.34	586.20
454.81	462.52	455.71	472.45	456.51	431.21	457.35	480.33
454.82	489.33	455.72	464.25	456.53	475.89	457.36	470.79
454.84	447.43	455.73	469.75	456.55	504.56	457.37	477.02
454.85	467.21	455.75	468.53	456.56	458.49	457.38	462.12
454.86	494.65	455.76	482.89	456.57	463.85	457.39	464.28
454.87	487.47	455.80	448.98	456.59	482.48	457.40	464.19
454.88	459.86	455.81	465.25	456.60	473.63	457.42	464.07
454.90	476.00	455.82	484.51	456.61	463.64	457.44	453.14
454.91	466.07	455.83	467.51	456.62	472.05	457.45	460.20

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
457.46	461.76	458.38	463.09	459.33	470.51	460.31	458.35
457.47	470.12	458.41	476.84	459.38	475.98	460.32	479.41
457.48	476.39	458.42	480.28	459.39	463.41	460.33	477.14
457.49	460.25	458.44	476.99	459.40	464.19	460.34	500.90
457.50	468.85	458.45	468.54	459.41	498.53	460.35	483.49
457.51	470.86	458.47	467.32	459.44	466.59	460.36	477.14
457.54	492.66	458.48	478.21	459.45	626.46	460.37	473.56
457.56	475.59	458.49	473.22	459.47	494.39	460.39	457.01
457.57	480.75	458.50	591.88	459.49	479.04	460.40	593.41
457.58	456.51	458.51	498.11	459.51	465.99	460.42	458.71
457.59	461.63	458.52	469.00	459.52	483.15	460.43	486.79
457.60	474.65	458.53	463.49	459.53	507.81	460.45	477.89
457.61	464.28	458.54	459.88	459.54	473.93	460.47	461.24
457.63	469.27	458.55	461.01	459.55	467.11	460.48	478.48
457.66	457.32	458.59	484.53	459.56	470.58	460.49	503.02
457.68	472.84	458.60	483.14	459.58	468.42	460.50	466.34
457.69	467.34	458.61	472.32	459.62	462.53	460.52	502.87
457.74	458.01	458.63	457.83	459.64	491.70	460.53	468.13
457.76	504.89	458.67	459.10	459.65	475.67	460.54	471.78
457.77	451.53	458.68	468.06	459.69	455.26	460.56	503.97
457.78	496.11	458.69	466.05	459.70	454.22	460.57	476.16
457.79	476.24	458.70	450.07	459.74	436.71	460.59	456.15
457.82	473.08	458.72	464.52	459.75	463.97	460.62	498.64
457.84	469.44	458.73	480.94	459.77	475.14	460.63	460.93
457.85	473.13	458.74	474.45	459.79	475.55	460.64	498.08
457.87	491.90	458.76	460.77	459.81	469.96	460.65	471.56
457.88	470.89	458.79	459.47	459.83	469.00	460.66	467.09
457.89	471.08	458.80	473.46	459.84	454.51	460.68	467.22
457.91	471.01	458.81	594.26	459.85	486.91	460.69	594.11
457.93	445.88	458.82	458.72	459.87	481.17	460.73	584.99
457.94	456.92	458.84	471.69	459.90	480.05	460.75	468.64
457.95	473.72	458.86	482.48	459.92	483.27	460.76	475.30
457.97	462.39	458.87	593.46	459.93	472.00	460.77	499.19
457.98	463.40	458.88	472.05	459.95	460.73	460.79	512.03
457.99	469.81	458.89	472.37	459.96	653.28	460.80	475.81
458.02	497.45	458.90	469.64	459.97	471.47	460.81	463.84
458.04	472.38	458.92	474.20	459.98	476.48	460.82	445.70
458.07	475.74	458.94	476.47	459.99	481.47	460.83	481.56
458.08	468.86	458.95	473.01	460.02	465.35	460.84	480.10
458.09	594.04	458.96	479.52	460.03	543.40	460.85	468.70
458.10	477.01	458.97	461.23	460.04	456.78	460.86	460.91
458.11	455.87	458.98	456.20	460.05	455.68	460.87	464.09
458.13	464.50	458.99	460.99	460.06	467.89	460.88	478.03
458.14	473.51	459.02	463.31	460.07	456.79	460.89	428.67
458.15	487.08	459.06	466.91	460.09	488.24	460.90	472.84
458.16	455.10	459.08	463.43	460.10	593.35	460.92	502.29
458.17	460.38	459.10	456.50	460.11	473.16	460.94	512.13
458.19	462.36	459.11	453.37	460.12	476.63	460.97	487.11
458.20	471.30	459.12	501.72	460.13	467.30	460.98	474.53
458.21	480.13	459.13	467.91	460.14	467.57	461.00	473.09
458.26	465.11	459.15	463.55	460.15	471.57	461.02	458.76
458.27	496.70	459.17	469.49	460.16	478.62	461.03	470.11
458.29	479.17	459.20	473.11	460.17	472.59	461.05	473.04
458.30	463.81	459.21	465.30	460.19	471.51	461.06	459.18
458.31	458.07	459.22	499.68	460.20	498.21	461.08	483.39
458.32	429.74	459.23	469.07	460.24	468.05	461.09	496.67
458.33	491.57	459.26	474.18	460.25	586.81	461.10	471.36
458.34	472.51	459.28	505.05	460.27	476.83	461.11	483.83
458.36	458.55	459.29	464.78	460.28	482.75	461.12	485.78
458.37	465.90	459.31	428.50	460.30	473.24	461.16	461.78

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
461.17	463.03	462.05	467.65	462.96	471.06	463.75	475.57
461.18	479.62	462.06	504.28	463.00	470.50	463.76	470.06
461.19	480.91	462.09	457.67	463.01	466.75	463.78	479.47
461.20	484.27	462.10	469.14	463.02	472.52	463.79	479.67
461.22	474.34	462.11	482.00	463.04	490.00	463.80	477.81
461.23	464.12	462.12	485.53	463.05	475.51	463.81	455.47
461.24	469.63	462.13	480.93	463.06	466.41	463.85	498.55
461.26	463.29	462.17	477.24	463.07	467.82	463.86	485.50
461.27	497.69	462.18	483.70	463.08	473.19	463.87	486.00
461.28	451.66	462.20	593.43	463.09	594.24	463.88	484.51
461.30	468.50	462.21	493.03	463.10	467.54	463.89	495.20
461.31	459.53	462.22	481.10	463.11	447.22	463.90	480.28
461.32	481.69	462.23	477.62	463.12	482.07	463.91	477.64
461.33	484.92	462.26	480.08	463.13	467.33	463.93	463.84
461.34	483.67	462.30	492.93	463.14	465.63	463.94	505.35
461.35	473.08	462.31	470.55	463.18	468.54	463.98	509.31
461.36	454.71	462.32	470.38	463.19	466.10	464.00	471.00
461.39	594.01	462.33	468.20	463.20	511.14	464.05	482.86
461.43	501.72	462.35	479.03	463.21	471.74	464.06	476.00
461.45	546.53	462.38	503.27	463.22	502.42	464.07	488.17
461.46	463.63	462.42	455.72	463.23	474.19	464.08	464.43
461.48	458.72	462.43	477.25	463.24	464.11	464.09	463.04
461.50	459.07	462.44	480.33	463.25	466.21	464.11	470.53
461.51	483.09	462.45	458.91	463.26	507.63	464.14	464.05
461.53	595.52	462.47	442.03	463.28	479.62	464.18	480.43
461.56	490.76	462.49	471.07	463.29	478.53	464.20	483.23
461.57	446.69	462.51	473.71	463.30	593.86	464.21	482.85
461.58	469.23	462.52	470.24	463.31	451.64	464.22	497.53
461.62	472.57	462.53	479.34	463.32	478.18	464.23	478.57
461.63	472.65	462.56	469.04	463.33	469.98	464.26	461.83
461.67	475.44	462.59	482.40	463.34	464.66	464.27	479.41
461.68	473.11	462.60	465.34	463.35	472.92	464.28	551.95
461.69	445.43	462.61	507.12	463.37	470.17	464.32	467.14
461.70	505.14	462.63	484.04	463.39	481.96	464.33	479.81
461.71	470.20	462.64	466.81	463.40	456.13	464.35	595.71
461.72	486.33	462.65	469.89	463.41	470.17	464.36	482.70
461.73	460.61	462.66	468.86	463.42	460.88	464.37	479.28
461.74	493.13	462.67	457.90	463.45	480.91	464.38	482.74
461.75	448.43	462.68	462.27	463.46	493.38	464.40	472.03
461.77	473.46	462.69	448.81	463.47	475.42	464.42	484.21
461.78	465.39	462.70	461.27	463.48	485.53	464.43	447.84
461.79	465.31	462.72	468.91	463.49	469.13	464.45	464.89
461.80	479.15	462.74	480.51	463.50	483.98	464.46	473.48
461.81	585.46	462.75	473.25	463.51	472.04	464.47	478.69
461.82	490.12	462.76	459.05	463.52	473.97	464.48	592.97
461.83	461.77	462.77	484.64	463.53	478.54	464.49	480.06
461.84	480.09	462.78	479.75	463.55	596.98	464.51	477.17
461.85	500.99	462.79	472.76	463.56	478.64	464.54	490.76
461.86	540.85	462.80	476.25	463.57	470.61	464.55	494.39
461.88	483.29	462.81	476.14	463.60	467.54	464.58	468.07
461.89	472.36	462.82	463.56	463.61	491.43	464.59	472.73
461.91	459.83	462.83	474.44	463.62	596.09	464.60	469.75
461.92	451.23	462.84	484.65	463.64	482.62	464.62	473.18
461.93	472.89	462.85	466.98	463.66	476.01	464.63	457.87
461.94	471.18	462.86	468.34	463.67	479.23	464.64	476.33
461.96	479.03	462.87	478.38	463.68	464.58	464.65	461.44
461.97	470.82	462.88	469.91	463.69	466.96	464.68	472.11
461.98	506.97	462.89	473.01	463.72	461.53	464.69	467.41
462.01	456.68	462.92	476.62	463.73	593.31	464.70	594.57
462.04	462.00	462.94	467.49	463.74	457.08	464.72	480.76

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
464.74	475.84	465.67	483.41	466.46	477.73	467.19	461.29
464.76	481.97	465.68	474.23	466.47	470.68	467.20	586.83
464.77	506.24	465.69	469.28	466.49	479.69	467.21	475.54
464.78	462.57	465.70	478.52	466.50	465.62	467.22	479.07
464.79	472.16	465.71	466.62	466.51	468.09	467.23	475.39
464.80	503.54	465.73	505.64	466.52	476.85	467.24	454.97
464.82	595.75	465.74	482.61	466.54	483.60	467.25	490.13
464.85	596.20	465.75	514.62	466.55	468.42	467.26	585.74
464.86	476.54	465.76	475.89	466.57	463.31	467.28	482.79
464.88	489.12	465.77	471.36	466.58	464.20	467.29	504.13
464.89	475.72	465.78	476.66	466.59	485.62	467.31	627.47
464.90	478.10	465.79	473.79	466.60	480.04	467.33	475.76
464.92	488.74	465.80	521.88	466.61	479.62	467.34	594.52
464.93	474.39	465.81	485.05	466.62	462.89	467.36	479.96
464.94	480.08	465.83	470.95	466.63	476.18	467.38	512.24
464.96	484.08	465.84	472.15	466.64	484.45	467.40	485.51
464.97	470.13	465.85	479.33	466.67	486.21	467.44	477.36
464.98	475.79	465.86	470.09	466.68	467.67	467.45	483.07
465.00	482.47	465.87	467.97	466.70	465.25	467.46	594.62
465.02	452.36	465.88	507.81	466.71	483.51	467.48	475.62
465.03	466.91	465.89	463.35	466.72	477.67	467.49	515.17
465.05	461.39	465.93	457.31	466.74	478.33	467.50	472.68
465.06	489.15	465.96	481.01	466.75	475.95	467.51	477.44
465.07	473.42	465.97	471.05	466.76	477.56	467.52	478.66
465.08	461.40	465.99	627.34	466.77	497.69	467.53	464.99
465.10	653.33	466.00	478.31	466.78	478.84	467.54	486.84
465.13	481.81	466.01	488.02	466.79	467.76	467.55	469.40
465.15	494.63	466.02	492.94	466.80	499.33	467.56	474.20
465.16	472.53	466.05	486.55	466.81	485.56	467.57	479.37
465.17	482.41	466.06	467.40	466.82	502.08	467.58	476.76
465.19	472.41	466.08	462.19	466.83	465.61	467.60	487.23
465.20	491.99	466.10	488.32	466.84	492.57	467.61	483.80
465.21	479.33	466.11	472.46	466.86	486.82	467.62	483.38
465.23	585.15	466.12	469.55	466.87	482.87	467.67	465.96
465.26	507.00	466.13	479.73	466.88	465.24	467.68	549.98
465.28	596.67	466.14	473.92	466.89	505.37	467.70	479.09
465.33	538.50	466.15	477.21	466.90	478.48	467.71	461.02
465.34	475.00	466.17	472.42	466.92	469.45	467.73	457.22
465.35	456.37	466.18	468.65	466.93	467.14	467.74	484.99
465.38	485.52	466.19	485.65	466.94	505.49	467.75	504.42
465.41	505.69	466.22	470.46	466.95	484.94	467.77	484.46
465.42	474.14	466.23	469.71	466.96	470.35	467.78	484.11
465.43	484.62	466.24	500.43	466.98	476.49	467.79	477.21
465.44	465.47	466.26	480.10	466.99	501.21	467.81	487.46
465.45	459.82	466.27	472.48	467.00	484.28	467.84	471.26
465.46	596.73	466.28	463.22	467.03	492.83	467.86	486.31
465.47	477.52	466.29	440.86	467.04	507.63	467.87	477.59
465.48	480.93	466.30	473.05	467.05	472.50	467.88	498.53
465.49	482.39	466.31	462.85	467.06	474.93	467.89	468.88
465.50	476.76	466.32	440.94	467.07	477.19	467.90	470.59
465.51	596.11	466.33	485.31	467.08	514.53	467.91	483.07
465.52	470.02	466.34	495.73	467.09	459.50	467.93	469.11
465.53	482.11	466.35	479.98	467.10	491.20	467.94	489.95
465.54	506.95	466.37	448.87	467.11	500.29	467.95	462.64
465.55	481.98	466.38	488.92	467.13	476.19	467.96	484.04
465.56	483.67	466.40	484.50	467.14	475.53	467.97	484.15
465.58	470.33	466.41	479.34	467.15	595.15	468.02	470.26
465.61	478.37	466.42	469.76	467.16	474.99	468.03	494.84
465.62	486.92	466.44	479.17	467.17	483.61	468.05	479.47
465.65	509.65	466.45	476.70	467.18	470.82	468.06	477.61



PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
468.08	480.84	468.87	487.52	469.72	476.80	470.56	474.16
468.09	488.80	468.89	515.89	469.73	466.05	470.57	481.41
468.10	487.73	468.90	479.14	469.74	495.20	470.59	488.79
468.11	478.77	468.91	482.02	469.77	511.15	470.60	595.11
468.14	476.20	468.92	466.96	469.79	474.25	470.61	469.41
468.15	472.63	468.93	486.99	469.82	479.75	470.62	484.12
468.16	484.92	468.94	482.99	469.83	462.21	470.64	469.29
468.17	479.15	468.96	594.65	469.86	477.25	470.66	470.18
468.20	506.26	468.97	595.70	469.87	476.61	470.67	476.03
468.21	483.00	468.98	486.69	469.88	477.83	470.68	478.61
468.23	482.35	468.99	541.82	469.89	516.39	470.72	477.86
468.24	480.27	469.01	490.01	469.90	504.06	470.73	484.91
468.25	461.67	469.02	477.94	469.91	474.91	470.75	474.53
468.26	457.61	469.03	466.61	469.92	465.73	470.76	487.22
468.27	481.10	469.05	593.63	469.93	483.21	470.77	482.01
468.29	479.37	469.06	477.40	469.94	481.52	470.79	472.99
468.30	501.29	469.08	482.32	469.95	470.65	470.80	596.23
468.31	510.41	469.10	486.16	469.97	474.46	470.81	480.68
468.32	491.64	469.11	596.69	469.98	476.05	470.83	472.08
468.34	480.64	469.12	595.59	469.99	475.03	470.84	484.82
468.35	484.04	469.13	483.12	470.00	565.28	470.85	477.82
468.37	478.52	469.14	587.55	470.01	489.62	470.86	472.84
468.38	513.85	469.15	479.71	470.02	491.12	470.89	478.62
468.39	493.73	469.17	474.77	470.03	456.87	470.90	466.59
468.40	442.73	469.19	499.41	470.04	481.61	470.91	477.14
468.41	477.59	469.20	466.85	470.07	483.75	470.92	478.75
468.42	473.79	469.21	462.44	470.09	597.59	470.93	498.02
468.45	480.82	469.22	514.29	470.11	598.14	470.94	485.12
468.46	471.72	469.23	485.14	470.14	505.42	470.95	475.25
468.49	482.78	469.24	470.24	470.15	484.78	470.96	479.08
468.50	509.59	469.25	472.09	470.16	475.33	470.97	484.97
468.52	468.85	469.28	498.54	470.17	594.35	470.98	490.88
468.53	470.35	469.29	477.65	470.18	475.91	470.99	486.89
468.54	461.76	469.30	592.56	470.19	491.38	471.00	493.20
468.55	489.68	469.32	482.28	470.20	504.42	471.01	553.25
468.57	467.21	469.33	483.11	470.21	627.28	471.03	495.17
468.58	468.00	469.34	472.82	470.22	473.99	471.05	467.55
468.59	500.81	469.35	480.20	470.23	476.74	471.06	476.17
468.60	482.82	469.36	436.05	470.24	481.11	471.07	478.02
468.61	476.15	469.37	481.07	470.26	467.50	471.08	466.36
468.62	488.84	469.38	477.18	470.27	476.00	471.09	474.21
468.63	494.30	469.41	470.65	470.28	477.28	471.10	471.48
468.64	477.41	469.43	468.79	470.29	489.23	471.11	486.02
468.65	478.41	469.44	496.01	470.31	504.18	471.12	482.90
468.66	467.53	469.45	496.70	470.32	476.60	471.14	487.12
468.67	478.23	469.46	595.58	470.33	513.88	471.15	481.49
468.68	475.00	469.50	477.85	470.34	627.13	471.16	483.89
468.69	473.76	469.51	477.88	470.35	483.66	471.19	487.03
468.70	473.34	469.52	454.25	470.36	479.19	471.20	489.36
468.71	484.76	469.53	486.62	470.38	478.95	471.21	462.01
468.72	462.63	469.55	464.94	470.39	473.50	471.22	481.48
468.74	471.73	469.56	652.56	470.44	498.98	471.23	472.32
468.75	478.81	469.57	464.28	470.46	477.51	471.24	475.75
468.77	469.45	469.59	466.58	470.47	483.31	471.25	479.63
468.79	478.14	469.60	472.16	470.49	494.24	471.26	483.54
468.80	479.95	469.63	480.55	470.51	507.11	471.28	458.12
468.81	484.10	469.65	503.15	470.52	483.85	471.29	455.64
468.83	488.23	469.69	478.97	470.53	486.90	471.30	491.13
468.85	462.69	469.70	471.47	470.54	481.35	471.31	480.59
468.86	478.40	469.71	452.17	470.55	477.04	471.32	508.24

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
471.33	475.88	472.22	465.76	473.06	488.74	473.92	595.31
471.36	595.80	472.23	499.15	473.08	511.80	473.94	473.77
471.37	474.58	472.25	479.04	473.09	490.62	473.95	494.30
471.38	470.24	472.26	480.44	473.11	477.78	473.96	462.58
471.42	596.37	472.28	488.60	473.12	471.63	473.97	595.96
471.44	481.31	472.30	470.85	473.14	477.95	473.98	496.74
471.46	474.85	472.31	480.67	473.17	587.51	473.99	598.42
471.47	465.44	472.32	499.86	473.18	486.50	474.00	489.19
471.48	478.95	472.33	553.90	473.22	485.07	474.01	487.09
471.49	490.43	472.34	595.66	473.23	478.04	474.02	486.10
471.50	595.36	472.35	518.56	473.24	468.48	474.03	481.41
471.51	459.06	472.36	468.31	473.26	653.00	474.04	490.48
471.53	471.07	472.37	475.28	473.27	469.53	474.05	487.29
471.54	476.60	472.39	627.24	473.28	478.98	474.06	597.33
471.55	465.37	472.41	473.00	473.29	486.14	474.08	486.73
471.56	475.45	472.42	482.78	473.30	483.86	474.09	496.88
471.59	489.34	472.43	479.45	473.31	494.15	474.11	480.91
471.60	488.34	472.44	476.84	473.33	488.16	474.12	483.82
471.64	467.77	472.45	479.57	473.34	475.58	474.13	491.61
471.65	485.28	472.46	469.88	473.36	476.01	474.14	473.82
471.66	476.36	472.47	597.11	473.37	475.58	474.15	481.83
471.67	439.67	472.48	488.24	473.39	473.31	474.16	491.48
471.68	488.10	472.49	471.66	473.40	472.50	474.17	510.79
471.69	535.47	472.50	464.75	473.41	597.60	474.18	461.00
471.72	478.83	472.52	482.06	473.42	479.12	474.19	482.56
471.73	488.80	472.53	653.43	473.43	475.84	474.20	474.54
471.74	472.80	472.54	482.50	473.44	479.69	474.21	488.67
471.75	489.28	472.55	482.97	473.45	472.75	474.22	508.46
471.76	490.19	472.59	476.65	473.46	487.35	474.23	487.00
471.77	467.69	472.61	496.03	473.47	512.95	474.24	597.28
471.79	481.61	472.62	485.78	473.48	479.09	474.25	480.90
471.80	478.92	472.63	479.71	473.50	594.08	474.26	595.54
471.81	475.56	472.64	495.03	473.51	587.15	474.27	512.12
471.82	479.48	472.65	483.92	473.53	595.55	474.28	475.63
471.83	488.04	472.66	466.04	473.54	472.00	474.30	485.66
471.85	475.26	472.68	495.58	473.55	486.99	474.31	627.58
471.86	484.31	472.69	476.69	473.56	484.02	474.32	479.97
471.88	466.28	472.70	480.73	473.58	501.79	474.36	534.32
471.90	507.12	472.72	514.01	473.59	469.72	474.39	519.22
471.91	516.70	472.74	482.17	473.60	486.19	474.40	484.48
471.93	471.28	472.76	587.72	473.61	477.05	474.42	472.93
471.95	488.98	472.77	485.69	473.62	485.91	474.44	489.17
471.98	484.38	472.78	483.54	473.64	490.52	474.45	479.26
471.99	481.83	472.81	483.91	473.68	495.32	474.46	500.82
472.00	482.56	472.85	470.47	473.69	496.45	474.47	473.69
472.01	495.61	472.86	472.32	473.71	505.46	474.48	503.17
472.02	595.25	472.87	480.60	473.72	511.00	474.49	496.96
472.04	502.34	472.89	485.91	473.73	474.29	474.51	457.45
472.05	509.38	472.90	484.50	473.75	475.18	474.52	653.60
472.06	586.97	472.91	489.31	473.76	487.69	474.53	453.81
472.07	469.82	472.93	485.29	473.77	487.08	474.54	462.82
472.08	477.96	472.94	483.15	473.79	476.78	474.55	487.94
472.09	517.02	472.97	486.55	473.80	477.01	474.56	504.63
472.10	481.65	472.98	483.99	473.81	491.87	474.57	487.07
472.11	502.40	472.99	493.92	473.82	495.64	474.58	490.20
472.14	463.30	473.01	479.40	473.83	483.24	474.59	496.06
472.17	477.09	473.02	489.73	473.84	487.00	474.60	482.27
472.18	486.08	473.03	483.39	473.86	486.51	474.61	467.03
472.20	476.17	473.04	489.55	473.88	481.84	474.62	523.59
472.21	485.40	473.05	476.80	473.91	495.42	474.63	476.99

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
474.64	488.04	475.52	477.54	476.55	498.52	477.33	483.25
474.65	478.33	475.53	485.51	476.57	483.10	477.35	487.92
474.67	496.79	475.54	473.91	476.58	503.98	477.38	505.97
474.68	490.43	475.55	466.30	476.59	508.14	477.39	485.97
474.69	466.96	475.57	477.80	476.60	471.48	477.40	480.56
474.71	492.64	475.59	469.57	476.61	478.78	477.43	492.82
474.73	653.14	475.60	475.98	476.62	481.99	477.44	491.80
474.74	482.90	475.61	552.50	476.63	489.18	477.45	506.28
474.75	482.84	475.62	486.08	476.65	491.44	477.46	587.02
474.76	490.85	475.65	485.47	476.68	490.39	477.49	511.92
474.77	596.92	475.66	475.71	476.70	521.13	477.50	498.68
474.78	491.31	475.68	653.26	476.71	492.74	477.51	483.68
474.79	497.96	475.69	587.23	476.72	483.48	477.52	484.89
474.80	532.95	475.76	587.73	476.73	597.47	477.55	480.37
474.81	469.09	475.77	485.00	476.74	484.74	477.56	489.17
474.82	489.39	475.78	484.65	476.75	492.51	477.58	520.68
474.83	474.99	475.80	480.75	476.76	493.87	477.59	471.87
474.84	490.92	475.81	487.10	476.77	451.66	477.60	486.22
474.86	507.96	475.84	551.96	476.79	489.21	477.62	489.47
474.87	520.65	475.86	495.99	476.81	487.19	477.64	491.64
474.88	482.59	475.87	595.85	476.82	494.24	477.65	472.55
474.92	479.90	475.88	476.22	476.83	504.74	477.66	515.68
474.93	458.06	475.91	493.03	476.85	487.37	477.67	490.44
474.94	482.11	475.92	512.54	476.86	482.00	477.68	491.36
474.98	488.57	475.93	493.15	476.87	504.52	477.69	486.67
474.99	477.19	475.94	476.63	476.88	494.67	477.72	485.95
475.00	476.43	475.95	484.89	476.89	510.65	477.73	470.25
475.01	521.13	475.97	478.74	476.91	476.28	477.74	489.71
475.02	481.42	475.99	479.00	476.93	494.76	477.76	482.76
475.03	481.29	476.02	478.20	476.94	483.57	477.77	494.36
475.05	477.39	476.03	472.91	476.95	491.46	477.78	476.04
475.06	483.20	476.04	486.63	476.96	472.49	477.79	485.87
475.07	476.12	476.06	470.95	476.97	486.75	477.80	477.25
475.10	515.66	476.07	476.36	476.99	513.17	477.81	503.59
475.12	518.78	476.09	484.75	477.00	512.53	477.82	487.24
475.13	597.10	476.13	475.75	477.02	490.33	477.83	490.36
475.16	478.23	476.16	485.15	477.03	493.92	477.84	489.90
475.20	491.82	476.17	496.84	477.04	473.67	477.85	489.16
475.22	485.31	476.18	594.47	477.05	479.74	477.86	486.08
475.23	481.43	476.19	483.27	477.06	483.33	477.87	474.00
475.24	484.69	476.21	472.31	477.08	555.14	477.90	484.78
475.27	490.88	476.22	471.26	477.09	505.96	477.91	482.37
475.28	504.27	476.25	485.93	477.11	470.21	477.92	485.30
475.29	510.01	476.26	483.97	477.12	487.83	477.93	470.06
475.30	475.04	476.28	488.33	477.13	489.96	477.95	479.42
475.31	503.93	476.29	487.84	477.14	487.59	477.97	493.61
475.33	494.82	476.30	481.03	477.15	494.04	477.98	488.35
475.34	500.19	476.35	494.87	477.17	523.73	477.99	481.30
475.35	510.80	476.36	514.17	477.18	480.84	478.00	513.62
475.36	477.99	476.37	653.24	477.19	485.77	478.01	596.81
475.37	511.61	476.38	483.71	477.21	517.79	478.02	471.80
475.38	482.70	476.40	489.22	477.22	493.62	478.03	474.80
475.39	482.54	476.42	501.32	477.23	473.69	478.04	480.46
475.40	488.47	476.44	480.06	477.24	494.73	478.05	492.12
475.42	447.22	476.45	490.31	477.25	485.84	478.06	492.50
475.43	474.73	476.46	490.64	477.28	489.74	478.07	496.76
475.45	515.27	476.47	477.41	477.29	495.61	478.08	482.82
475.47	483.62	476.50	475.76	477.30	437.50	478.09	498.91
475.49	485.90	476.51	488.28	477.31	483.31	478.10	474.48
475.51	652.69	476.54	476.24	477.32	496.86	478.11	493.12

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
478.12	477.48	478.97	486.39	479.83	495.33	480.74	483.53
478.14	487.15	478.98	520.42	479.84	490.68	480.75	474.26
478.15	475.35	478.99	462.33	479.87	482.37	480.76	485.04
478.16	516.76	479.00	516.61	479.88	490.15	480.77	482.83
478.17	475.08	479.04	485.17	479.89	485.02	480.78	486.93
478.18	483.70	479.05	559.94	479.90	506.81	480.79	497.34
478.19	597.25	479.06	494.40	479.91	485.92	480.80	479.36
478.20	478.39	479.07	482.71	479.92	491.72	480.82	485.36
478.21	482.73	479.09	487.73	479.93	483.67	480.83	514.31
478.22	495.77	479.10	499.03	479.99	480.21	480.85	497.09
478.23	482.52	479.11	486.69	480.01	475.54	480.87	596.64
478.24	493.83	479.12	557.89	480.02	522.43	480.89	475.86
478.25	484.90	479.13	451.19	480.03	490.56	480.90	488.01
478.26	490.71	479.14	487.40	480.04	490.47	480.91	486.95
478.27	479.11	479.15	484.96	480.05	485.60	480.92	495.11
478.28	485.88	479.16	483.52	480.06	489.70	480.93	475.67
478.29	495.20	479.17	500.80	480.08	491.35	480.94	480.76
478.30	471.21	479.18	482.06	480.09	486.03	480.95	596.30
478.33	594.76	479.20	521.63	480.10	483.85	480.96	484.46
478.35	478.28	479.21	495.37	480.14	588.37	480.97	487.21
478.36	494.29	479.22	482.49	480.15	475.86	480.98	494.98
478.37	476.28	479.23	498.38	480.16	482.49	480.99	491.34
478.38	484.37	479.25	481.28	480.18	493.16	481.00	493.92
478.39	483.49	479.30	494.34	480.20	597.26	481.02	480.92
478.40	478.90	479.31	482.63	480.22	484.93	481.03	482.33
478.41	477.56	479.32	482.72	480.25	495.51	481.04	490.13
478.42	495.45	479.33	503.52	480.26	484.87	481.05	496.93
478.43	505.33	479.34	482.77	480.27	473.25	481.06	557.72
478.44	495.04	479.35	480.52	480.28	477.57	481.07	496.12
478.49	487.87	479.36	596.32	480.29	523.53	481.08	516.62
478.55	469.87	479.39	485.66	480.30	493.46	481.09	490.15
478.56	473.55	479.40	596.74	480.31	515.19	481.11	483.88
478.57	496.35	479.41	521.58	480.33	482.89	481.12	587.54
478.58	521.05	479.43	504.48	480.34	488.62	481.14	488.04
478.59	475.20	479.44	482.88	480.37	478.48	481.15	518.15
478.60	481.68	479.45	478.38	480.39	473.07	481.16	484.71
478.64	596.07	479.47	493.43	480.40	516.59	481.17	493.17
478.65	496.23	479.49	483.02	480.41	518.14	481.18	489.27
478.67	474.81	479.51	472.59	480.42	486.96	481.19	486.29
478.68	482.86	479.52	480.90	480.44	483.72	481.20	485.15
478.70	488.83	479.53	493.80	480.45	493.59	481.22	491.81
478.71	482.66	479.58	495.13	480.47	497.23	481.24	495.88
478.72	488.09	479.59	485.18	480.48	493.35	481.27	493.91
478.75	476.08	479.60	481.22	480.51	473.28	481.28	493.49
478.77	492.50	479.61	488.82	480.54	487.33	481.30	494.69
478.78	481.72	479.62	477.41	480.55	597.14	481.31	492.92
478.79	492.05	479.64	494.34	480.57	484.91	481.32	519.37
478.81	597.80	479.66	529.92	480.58	487.09	481.34	516.79
478.83	485.15	479.68	596.29	480.60	479.83	481.36	495.08
478.85	496.27	479.69	471.83	480.62	654.05	481.39	477.51
478.86	479.88	479.70	595.95	480.63	587.30	481.40	479.23
478.88	477.20	479.72	496.10	480.64	471.51	481.43	586.34
478.89	490.03	479.73	478.89	480.65	491.86	481.44	588.38
478.90	521.50	479.75	489.16	480.66	483.19	481.45	496.28
478.91	586.18	479.76	485.64	480.67	476.88	481.48	494.92
478.92	485.54	479.77	598.75	480.69	524.54	481.49	586.28
478.93	484.64	479.78	494.87	480.70	495.02	481.50	506.59
478.94	492.37	479.79	480.96	480.71	495.96	481.51	494.18
478.95	464.62	479.80	481.16	480.72	492.38	481.52	480.90
478.96	490.36	479.82	492.88	480.73	485.70	481.53	494.01

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
481.54	482.34	482.39	481.22	483.29	461.42	484.18	484.94
481.55	490.96	482.40	493.47	483.30	598.27	484.19	497.72
481.56	479.26	482.41	513.15	483.31	495.71	484.20	529.84
481.57	485.14	482.42	514.29	483.32	495.56	484.22	446.77
481.58	495.59	482.43	485.79	483.33	529.65	484.24	509.54
481.59	489.06	482.44	497.03	483.34	491.83	484.25	491.00
481.60	505.25	482.46	485.71	483.35	489.58	484.26	490.04
481.64	493.86	482.47	495.25	483.36	486.68	484.27	488.49
481.65	485.48	482.49	482.74	483.39	628.05	484.28	496.19
481.66	488.03	482.50	514.76	483.42	497.50	484.30	499.67
481.67	499.73	482.51	486.25	483.43	598.13	484.32	490.69
481.68	479.78	482.53	486.40	483.44	490.56	484.33	487.72
481.69	444.14	482.56	587.88	483.45	481.55	484.34	492.87
481.70	595.97	482.57	476.39	483.46	504.08	484.37	497.38
481.71	489.07	482.58	491.96	483.47	482.71	484.38	527.15
481.72	484.15	482.59	519.40	483.49	494.00	484.39	522.33
481.74	480.37	482.62	485.71	483.52	482.02	484.40	507.53
481.75	481.86	482.63	489.47	483.53	481.11	484.41	474.35
481.76	494.47	482.67	494.03	483.54	475.85	484.42	524.41
481.77	483.80	482.68	496.62	483.55	598.55	484.43	496.81
481.78	490.49	482.69	491.08	483.56	484.88	484.44	521.54
481.79	494.17	482.70	484.16	483.57	498.99	484.45	526.04
481.81	486.57	482.71	470.19	483.59	484.95	484.48	501.26
481.82	497.37	482.72	490.39	483.60	480.92	484.49	490.21
481.84	491.54	482.76	490.79	483.61	561.05	484.54	494.70
481.85	597.75	482.78	531.60	483.62	493.00	484.58	497.25
481.86	477.82	482.79	482.29	483.63	653.30	484.60	485.02
481.87	480.65	482.80	653.44	483.64	493.40	484.62	499.25
481.88	487.24	482.82	588.23	483.65	486.86	484.64	486.46
481.90	499.39	482.83	485.46	483.67	504.07	484.66	598.14
481.94	492.93	482.86	489.02	483.70	597.86	484.68	480.17
481.95	485.27	482.87	504.73	483.72	487.10	484.69	473.29
481.97	476.33	482.89	504.10	483.73	596.51	484.70	524.78
481.99	497.05	482.91	481.40	483.75	507.86	484.74	486.29
482.00	487.07	482.93	555.31	483.78	492.62	484.76	482.60
482.01	481.32	482.94	653.28	483.80	504.58	484.77	493.60
482.02	492.46	482.95	490.93	483.81	479.36	484.78	497.86
482.04	499.75	482.96	496.47	483.83	653.49	484.79	523.60
482.05	491.60	482.97	483.04	483.86	492.32	484.80	487.37
482.07	587.66	482.98	488.81	483.87	495.84	484.81	482.82
482.08	484.47	482.99	480.64	483.88	514.93	484.82	536.94
482.10	481.91	483.01	486.21	483.92	481.88	484.84	498.84
482.12	484.35	483.02	485.00	483.94	520.79	484.85	493.39
482.13	627.41	483.04	484.62	483.95	497.94	484.86	491.17
482.15	481.03	483.05	480.16	483.96	497.79	484.87	497.00
482.17	475.44	483.08	489.51	483.98	503.32	484.88	595.54
482.18	519.81	483.09	496.57	483.99	494.02	484.89	478.92
482.19	488.95	483.11	482.77	484.00	493.73	484.92	484.05
482.20	510.91	483.13	497.76	484.01	516.09	484.93	466.81
482.23	496.46	483.14	490.23	484.02	520.11	484.95	497.13
482.24	508.32	483.15	481.65	484.03	486.33	484.96	598.00
482.25	493.27	483.16	473.57	484.04	485.87	484.99	496.36
482.26	482.88	483.17	544.95	484.06	484.05	485.00	495.47
482.28	474.11	483.18	472.10	484.08	491.29	485.03	596.74
482.29	498.68	483.20	500.42	484.09	484.53	485.04	492.98
482.30	500.22	483.21	490.76	484.11	488.89	485.05	492.83
482.32	596.71	483.24	483.15	484.12	495.38	485.06	508.23
482.33	483.72	483.25	490.26	484.13	486.52	485.07	496.64
482.34	485.11	483.26	496.97	484.14	490.37	485.08	504.01
482.36	595.84	483.28	488.42	484.17	597.21	485.09	524.15

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
485.11	475.42	486.10	505.58	486.97	487.84	487.90	502.55
485.12	486.02	486.11	503.35	487.00	501.09	487.91	494.79
485.13	485.27	486.12	503.36	487.01	484.63	487.92	514.31
485.15	488.47	486.15	482.10	487.04	520.33	487.94	491.66
485.16	492.68	486.16	485.65	487.06	484.39	487.96	530.08
485.18	483.18	486.18	493.62	487.07	494.85	487.97	525.91
485.20	493.71	486.19	490.67	487.08	520.94	487.98	489.68
485.22	491.13	486.21	494.59	487.09	498.62	487.99	507.52
485.23	495.65	486.22	501.94	487.10	481.76	488.00	475.19
485.26	483.18	486.23	564.49	487.13	509.06	488.01	485.41
485.27	490.87	486.24	520.96	487.14	530.21	488.03	490.88
485.28	480.39	486.25	510.15	487.16	496.62	488.04	509.86
485.29	494.08	486.26	498.22	487.17	598.25	488.05	501.33
485.33	487.20	486.27	465.91	487.18	496.09	488.06	513.03
485.34	486.88	486.28	495.75	487.20	499.40	488.07	493.74
485.35	491.99	486.32	492.40	487.21	495.97	488.10	489.45
485.36	494.31	486.38	488.43	487.22	492.21	488.11	500.72
485.38	481.42	486.40	596.85	487.23	489.20	488.12	496.26
485.39	492.92	486.41	520.76	487.24	517.59	488.14	588.20
485.40	515.92	486.42	494.89	487.25	491.87	488.16	499.56
485.42	516.56	486.43	499.75	487.26	542.16	488.18	489.17
485.43	595.70	486.44	525.25	487.28	595.23	488.19	499.37
485.45	509.23	486.45	497.44	487.31	524.65	488.20	508.67
485.46	494.29	486.46	488.86	487.32	473.90	488.22	486.28
485.47	486.48	486.47	597.39	487.33	483.17	488.27	596.90
485.49	653.88	486.49	485.92	487.34	499.35	488.28	489.60
485.50	497.74	486.52	489.59	487.36	487.92	488.30	491.66
485.58	488.15	486.55	500.45	487.37	489.69	488.31	491.87
485.59	599.05	486.56	481.43	487.39	487.17	488.32	494.69
485.61	499.87	486.57	487.27	487.41	493.80	488.35	494.70
485.63	484.73	486.58	588.34	487.42	492.09	488.37	470.01
485.64	529.41	486.59	517.10	487.44	496.43	488.38	491.72
485.65	504.72	486.60	492.29	487.46	488.68	488.41	485.75
485.66	500.50	486.61	522.58	487.47	487.60	488.42	599.13
485.67	501.57	486.62	505.29	487.48	596.40	488.44	499.79
485.68	470.80	486.63	492.10	487.49	524.14	488.45	503.72
485.70	495.89	486.64	490.18	487.53	485.07	488.48	445.45
485.72	498.06	486.65	565.78	487.54	494.23	488.49	594.65
485.74	502.88	486.67	495.83	487.55	525.06	488.50	497.26
485.77	596.71	486.68	507.51	487.56	500.99	488.52	487.32
485.78	491.34	486.69	484.70	487.58	444.00	488.53	491.16
485.80	489.86	486.70	484.57	487.59	490.06	488.56	490.03
485.81	481.26	486.71	480.56	487.61	493.40	488.57	495.88
485.83	495.12	486.72	598.44	487.62	627.91	488.59	528.39
485.84	492.68	486.74	493.77	487.64	588.24	488.61	508.32
485.86	495.32	486.75	566.01	487.65	495.02	488.63	597.47
485.87	506.60	486.76	484.50	487.67	503.66	488.64	488.40
485.88	515.24	486.77	492.49	487.68	597.50	488.69	483.78
485.89	494.62	486.78	595.72	487.71	489.09	488.70	596.36
485.92	595.23	486.79	499.33	487.72	480.72	488.72	495.68
485.94	588.17	486.80	484.33	487.73	481.57	488.75	491.11
485.95	485.45	486.81	483.62	487.75	491.31	488.76	512.39
485.96	492.16	486.82	511.09	487.78	519.00	488.77	516.11
485.98	496.79	486.83	504.00	487.79	511.25	488.78	481.33
486.01	489.11	486.84	508.47	487.82	499.69	488.80	509.60
486.02	490.92	486.88	587.89	487.85	488.23	488.81	504.35
486.04	498.79	486.89	489.70	487.86	486.92	488.83	484.48
486.05	472.77	486.90	497.05	487.87	491.29	488.84	495.11
486.06	509.23	486.91	588.24	487.88	516.60	488.85	522.20
486.08	489.56	486.94	484.25	487.89	499.27	488.86	499.28

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
488.87	654.17	489.73	488.90	490.62	501.44	491.47	500.90
488.88	501.42	489.74	498.65	490.63	489.10	491.48	493.31
488.90	499.61	489.76	523.12	490.64	497.59	491.49	530.55
488.91	523.50	489.77	596.64	490.65	499.26	491.51	463.27
488.93	480.54	489.79	497.64	490.66	480.78	491.52	502.61
488.94	479.44	489.80	496.31	490.68	507.01	491.53	495.07
488.95	479.93	489.81	494.39	490.69	507.62	491.57	501.24
488.97	482.55	489.83	503.46	490.72	599.07	491.59	518.19
488.98	599.01	489.84	494.12	490.73	495.64	491.60	461.07
488.99	467.37	489.85	509.21	490.75	526.27	491.61	524.93
489.00	494.73	489.87	495.57	490.76	493.74	491.62	480.43
489.01	496.73	489.88	499.64	490.77	493.53	491.63	500.38
489.02	521.57	489.89	487.91	490.78	490.17	491.65	588.66
489.04	473.88	489.90	502.84	490.79	504.26	491.66	479.35
489.05	507.17	489.91	497.24	490.80	597.94	491.67	503.19
489.08	519.84	489.93	480.68	490.81	496.06	491.68	512.03
489.09	467.11	489.94	493.99	490.82	498.45	491.69	597.68
489.10	518.06	489.95	499.86	490.83	501.61	491.71	483.22
489.12	490.08	489.96	555.34	490.84	494.15	491.72	523.07
489.13	491.72	489.97	503.46	490.85	509.52	491.74	499.18
489.15	509.18	489.99	495.10	490.87	496.88	491.75	509.68
489.17	522.58	490.00	497.79	490.88	503.22	491.78	528.21
489.18	499.12	490.02	498.92	490.89	461.55	491.81	653.42
489.19	497.60	490.03	628.11	490.90	595.43	491.82	596.52
489.20	495.97	490.04	597.29	490.93	488.85	491.83	484.56
489.21	496.27	490.06	479.88	490.96	487.00	491.85	536.01
489.22	489.09	490.08	521.86	490.98	490.40	491.87	496.36
489.24	492.70	490.09	482.76	491.01	600.41	491.88	479.82
489.25	487.33	490.10	627.97	491.02	495.78	491.89	496.16
489.26	491.15	490.13	495.81	491.03	488.20	491.90	653.63
489.27	494.56	490.14	486.96	491.04	492.88	491.91	487.48
489.28	492.69	490.15	500.00	491.05	598.05	491.92	494.99
489.29	596.99	490.17	505.99	491.07	597.35	491.94	488.61
489.30	597.42	490.20	499.62	491.08	528.38	491.95	503.23
489.31	597.90	490.21	502.42	491.10	508.03	491.97	599.53
489.32	525.68	490.25	510.11	491.11	501.57	491.98	494.45
489.33	489.69	490.26	491.59	491.12	505.65	491.99	485.84
489.35	477.91	490.27	514.33	491.14	488.60	492.01	541.97
489.36	480.34	490.29	505.59	491.15	488.47	492.02	484.98
489.37	485.64	490.30	511.17	491.19	532.54	492.03	498.46
489.39	497.16	490.32	492.43	491.20	498.91	492.05	492.29
489.42	505.68	490.33	480.87	491.21	486.00	492.07	500.44
489.48	491.67	490.35	503.33	491.23	501.60	492.08	500.22
489.49	490.89	490.37	587.54	491.24	506.62	492.09	482.32
489.50	493.58	490.38	498.86	491.26	490.41	492.10	588.35
489.52	533.28	490.39	587.08	491.27	487.16	492.11	522.96
489.53	495.25	490.40	492.24	491.28	502.94	492.15	489.29
489.54	489.76	490.42	508.39	491.29	499.35	492.16	525.46
489.56	507.35	490.46	447.32	491.30	479.72	492.17	491.08
489.57	479.94	490.47	654.10	491.31	488.65	492.19	492.60
489.58	487.57	490.48	499.58	491.32	504.03	492.22	599.58
489.61	480.31	490.50	506.41	491.33	588.27	492.23	498.35
489.63	487.37	490.51	498.78	491.34	498.85	492.24	490.58
489.65	499.24	490.52	526.19	491.36	587.84	492.25	501.33
489.66	480.76	490.53	501.34	491.37	504.42	492.26	492.16
489.67	500.56	490.54	490.68	491.40	502.71	492.28	491.77
489.69	495.78	490.56	491.87	491.41	499.11	492.29	494.85
489.70	481.62	490.59	501.85	491.42	519.15	492.30	494.22
489.71	598.16	490.60	500.90	491.43	529.65	492.31	522.87
489.72	483.47	490.61	481.56	491.45	491.94	492.32	498.33

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
492.33	498.57	493.16	486.11	494.07	569.58	494.84	500.98
492.34	500.78	493.17	507.81	494.08	496.09	494.85	487.60
492.35	499.55	493.18	504.12	494.09	536.06	494.86	495.05
492.37	482.33	493.19	488.31	494.11	486.16	494.88	505.07
492.39	485.99	493.20	503.55	494.12	493.30	494.89	502.82
492.41	495.96	493.21	487.41	494.13	502.85	494.90	487.87
492.44	503.14	493.23	534.84	494.14	529.98	494.91	488.34
492.45	493.44	493.25	511.18	494.15	495.36	494.93	576.93
492.48	501.81	493.26	493.68	494.16	598.67	494.96	505.71
492.49	494.36	493.27	501.39	494.17	599.50	494.97	492.72
492.50	500.24	493.28	501.59	494.18	504.43	494.98	508.25
492.51	499.63	493.30	525.00	494.19	571.29	494.99	526.21
492.53	485.51	493.31	598.15	494.20	587.84	495.01	598.33
492.54	499.28	493.33	493.39	494.22	504.21	495.03	491.72
492.55	502.23	493.34	497.77	494.23	529.88	495.04	498.44
492.56	521.18	493.35	524.64	494.24	501.28	495.05	523.13
492.57	489.75	493.38	597.54	494.26	503.77	495.06	527.52
492.59	506.44	493.40	504.14	494.29	514.49	495.07	597.83
492.60	587.78	493.42	500.54	494.31	518.72	495.08	506.90
492.61	575.25	493.45	497.96	494.32	507.91	495.09	502.44
492.62	510.83	493.47	588.43	494.34	503.40	495.10	489.36
492.63	494.73	493.49	512.44	494.35	530.49	495.12	598.32
492.64	598.04	493.50	502.72	494.36	598.75	495.13	506.29
492.65	483.38	493.53	501.29	494.37	487.49	495.14	505.92
492.66	491.64	493.54	655.02	494.38	505.13	495.19	497.67
492.67	501.03	493.55	487.72	494.39	502.71	495.20	493.44
492.70	526.54	493.56	600.66	494.40	458.32	495.21	494.95
492.71	498.99	493.57	500.17	494.42	487.24	495.23	504.38
492.73	526.45	493.58	527.71	494.43	493.31	495.24	528.07
492.74	595.89	493.59	653.73	494.45	507.46	495.25	491.19
492.75	501.04	493.60	504.14	494.46	524.71	495.27	494.31
492.77	530.87	493.61	493.72	494.47	502.54	495.28	497.31
492.78	499.61	493.63	498.76	494.48	494.49	495.29	599.64
492.80	588.69	493.66	502.63	494.50	496.58	495.30	494.82
492.81	502.64	493.67	505.80	494.52	487.75	495.31	538.70
492.83	501.20	493.69	490.80	494.53	497.08	495.32	495.51
492.86	477.50	493.71	494.74	494.54	496.36	495.33	498.64
492.87	479.12	493.74	588.96	494.55	505.34	495.34	497.33
492.88	492.30	493.75	482.83	494.56	505.58	495.35	501.08
492.89	497.66	493.76	599.23	494.60	504.61	495.37	588.52
492.90	488.84	493.77	498.60	494.61	502.03	495.39	496.24
492.91	504.00	493.78	483.42	494.62	496.67	495.40	499.41
492.92	488.16	493.79	501.91	494.63	504.30	495.42	510.57
492.94	498.62	493.80	514.72	494.64	588.17	495.43	515.40
492.95	599.03	493.81	484.49	494.65	485.46	495.44	503.86
492.96	484.32	493.82	503.23	494.66	463.25	495.45	489.93
492.99	489.30	493.83	564.10	494.67	492.03	495.48	493.90
493.01	493.05	493.84	505.02	494.68	597.22	495.50	492.95
493.02	492.89	493.87	484.88	494.69	506.70	495.51	502.48
493.04	498.26	493.89	499.57	494.70	485.49	495.52	507.97
493.05	494.35	493.90	500.09	494.71	508.29	495.53	573.78
493.06	492.35	493.91	515.74	494.73	532.07	495.54	504.29
493.08	494.01	493.92	497.90	494.74	504.79	495.55	495.01
493.09	599.42	493.95	492.76	494.75	495.64	495.58	522.53
493.10	495.39	493.96	502.50	494.77	500.52	495.61	494.72
493.11	497.20	493.97	492.78	494.78	491.00	495.62	492.04
493.12	496.54	494.00	515.43	494.80	537.17	495.63	495.16
493.13	500.96	494.01	486.63	494.81	495.20	495.64	598.45
493.14	492.53	494.02	524.48	494.82	516.81	495.65	501.82
493.15	475.96	494.04	497.54	494.83	654.14	495.66	502.57



PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
495.67	497.22	496.57	499.03	497.49	479.76	498.34	497.95
495.68	496.93	496.59	487.94	497.50	504.80	498.35	512.74
495.69	532.17	496.60	503.36	497.52	489.60	498.36	567.17
495.71	492.59	496.62	501.36	497.53	503.41	498.38	516.41
495.73	628.17	496.65	498.48	497.56	597.57	498.40	494.21
495.74	500.96	496.67	483.27	497.57	501.38	498.41	487.01
495.76	529.11	496.68	495.39	497.60	654.11	498.42	502.00
495.77	513.88	496.71	512.55	497.61	492.73	498.43	489.83
495.78	504.79	496.72	537.29	497.64	497.30	498.46	505.19
495.79	535.03	496.73	490.55	497.65	502.06	498.47	528.91
495.81	506.28	496.75	506.87	497.66	588.11	498.49	492.65
495.83	521.73	496.77	507.28	497.67	506.92	498.50	504.09
495.84	502.80	496.78	492.76	497.68	512.44	498.51	499.10
495.85	654.22	496.79	568.08	497.69	500.42	498.52	496.05
495.87	501.88	496.81	563.03	497.70	505.97	498.53	503.41
495.88	486.34	496.82	501.54	497.71	497.19	498.54	588.88
495.89	486.02	496.83	474.45	497.72	525.97	498.55	500.14
495.90	507.09	496.84	588.49	497.75	543.56	498.56	505.68
495.91	479.05	496.85	598.85	497.76	496.33	498.57	508.37
495.92	505.33	496.86	504.70	497.80	532.37	498.58	495.16
495.94	491.86	496.87	529.65	497.81	506.17	498.59	506.69
495.96	489.54	496.88	495.25	497.82	512.04	498.60	506.52
495.97	504.22	496.89	495.46	497.83	506.27	498.61	494.47
495.99	489.19	496.90	501.14	497.85	533.60	498.62	510.98
496.01	500.03	496.93	506.71	497.86	497.66	498.63	532.09
496.05	487.50	496.94	495.40	497.88	505.77	498.64	500.14
496.06	503.10	496.96	500.66	497.89	493.05	498.65	537.31
496.07	504.61	497.01	505.59	497.90	503.88	498.66	598.24
496.08	596.02	497.02	494.78	497.91	501.11	498.68	494.64
496.09	532.16	497.03	500.52	497.93	519.75	498.69	502.52
496.10	498.77	497.04	497.98	497.94	499.92	498.70	501.94
496.13	654.04	497.06	495.64	497.95	500.05	498.71	501.26
496.14	494.53	497.07	600.41	497.96	509.35	498.72	488.28
496.16	506.91	497.08	493.47	497.97	492.66	498.73	503.05
496.17	504.13	497.09	502.15	497.99	510.16	498.74	528.79
496.18	501.29	497.14	496.21	498.00	502.00	498.76	512.85
496.19	528.81	497.15	497.61	498.01	497.84	498.77	509.63
496.20	506.31	497.16	505.53	498.03	495.35	498.78	598.45
496.23	491.38	497.18	500.20	498.05	491.63	498.79	525.45
496.27	507.38	497.19	533.95	498.06	503.68	498.80	511.29
496.29	654.04	497.20	501.47	498.08	502.32	498.81	600.57
496.30	598.60	497.21	600.09	498.09	505.37	498.83	513.89
496.31	492.47	497.22	508.09	498.10	499.56	498.84	487.98
496.32	499.19	497.23	496.94	498.11	514.03	498.86	504.18
496.33	534.87	497.24	490.72	498.12	493.43	498.89	513.44
496.34	541.54	497.26	506.75	498.13	525.06	498.90	502.07
496.36	501.70	497.27	489.90	498.15	495.28	498.92	598.20
496.37	500.85	497.28	500.15	498.16	496.68	498.93	509.01
496.39	530.74	497.29	500.31	498.17	506.79	498.94	489.85
496.40	528.01	497.31	502.28	498.18	495.77	498.95	510.45
496.41	511.65	497.33	535.25	498.20	497.07	498.96	533.99
496.42	498.47	497.34	531.73	498.24	541.71	498.98	503.99
496.43	503.81	497.35	495.44	498.25	509.61	498.99	541.71
496.45	492.67	497.36	495.51	498.26	560.07	499.00	494.50
496.47	498.02	497.37	582.15	498.28	500.86	499.02	504.12
496.48	507.37	497.38	522.40	498.29	503.65	499.04	496.85
496.49	493.23	497.39	492.19	498.30	492.08	499.05	498.74
496.51	521.32	497.42	479.51	498.31	599.84	499.07	654.32
496.53	503.80	497.44	507.55	498.32	572.75	499.08	501.72
496.54	504.63	497.48	496.76	498.33	505.43	499.09	490.82

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
499.10	503.16	499.93	498.74	500.89	538.56	501.85	511.77
499.11	515.52	499.94	507.53	500.90	500.48	501.86	596.97
499.12	498.84	499.95	504.86	500.91	499.28	501.87	497.12
499.13	492.43	499.97	496.16	500.92	499.40	501.90	504.44
499.14	508.79	499.98	499.54	500.93	498.54	501.91	512.34
499.15	574.25	500.00	596.57	500.94	497.38	501.92	600.50
499.16	573.30	500.01	503.47	500.95	494.67	501.97	598.27
499.17	532.45	500.02	496.26	500.97	507.36	501.98	509.55
499.18	501.88	500.03	530.60	500.98	508.73	501.99	503.69
499.20	507.38	500.04	477.40	501.00	508.20	502.01	494.05
499.22	495.91	500.06	493.07	501.01	501.78	502.02	575.93
499.24	532.90	500.07	506.48	501.02	508.79	502.03	498.27
499.25	505.16	500.09	508.39	501.04	494.32	502.04	496.30
499.26	493.49	500.10	493.78	501.05	502.42	502.05	523.81
499.27	496.76	500.12	492.57	501.06	506.34	502.06	598.92
499.29	508.45	500.13	539.53	501.07	513.84	502.07	510.14
499.30	502.04	500.15	495.79	501.08	503.34	502.08	494.32
499.31	488.03	500.18	478.82	501.09	511.87	502.09	515.53
499.34	522.95	500.20	496.41	501.10	541.59	502.10	495.13
499.38	527.54	500.21	597.51	501.12	503.71	502.11	491.01
499.39	504.87	500.23	503.21	501.15	509.04	502.12	511.33
499.40	509.77	500.28	499.16	501.17	484.68	502.13	505.37
499.42	501.03	500.30	588.73	501.18	499.87	502.14	497.73
499.43	508.83	500.32	486.39	501.21	479.25	502.16	505.16
499.44	512.80	500.33	535.11	501.23	505.60	502.17	512.10
499.45	506.15	500.34	505.45	501.25	502.40	502.19	536.54
499.46	598.61	500.35	536.71	501.26	596.84	502.20	520.86
499.47	491.13	500.36	501.23	501.27	502.21	502.21	504.08
499.49	500.34	500.38	527.52	501.29	498.91	502.22	505.20
499.50	507.62	500.39	496.44	501.30	508.34	502.24	507.49
499.51	511.70	500.40	599.68	501.32	598.04	502.26	531.07
499.52	654.44	500.41	499.09	501.33	536.02	502.27	511.89
499.53	508.50	500.43	506.97	501.34	488.55	502.28	494.01
499.54	503.86	500.46	500.38	501.37	521.86	502.29	598.29
499.55	575.37	500.48	512.17	501.38	506.19	502.30	598.66
499.56	511.22	500.49	516.85	501.39	536.94	502.31	540.48
499.57	495.29	500.50	589.08	501.40	507.30	502.33	492.10
499.58	507.78	500.51	500.38	501.41	490.55	502.35	535.84
499.59	504.47	500.52	502.62	501.42	499.99	502.37	516.32
499.60	501.37	500.54	511.33	501.51	528.52	502.39	498.61
499.63	512.76	500.58	492.44	501.52	517.12	502.40	499.47
499.64	497.39	500.60	506.77	501.54	529.98	502.42	505.66
499.65	505.49	500.63	506.46	501.55	499.12	502.43	503.77
499.66	497.28	500.64	505.25	501.56	496.76	502.44	513.54
499.67	523.11	500.66	501.67	501.58	507.14	502.45	600.11
499.68	501.20	500.67	507.37	501.60	495.65	502.46	505.98
499.70	509.59	500.69	506.34	501.61	588.89	502.47	509.40
499.74	497.18	500.72	598.41	501.62	523.89	502.48	513.18
499.76	500.62	500.73	531.90	501.63	547.00	502.51	494.26
499.78	579.15	500.75	525.79	501.64	498.81	502.52	512.29
499.79	528.46	500.77	540.95	501.66	514.69	502.53	529.77
499.81	500.62	500.78	490.61	501.68	538.37	502.54	505.54
499.82	536.88	500.79	501.96	501.72	499.05	502.55	504.48
499.83	498.29	500.80	499.04	501.73	496.26	502.56	599.46
499.87	501.92	500.82	503.52	501.74	510.32	502.57	512.55
499.88	502.66	500.83	507.08	501.76	597.95	502.59	531.71
499.89	538.84	500.84	504.69	501.78	599.69	502.63	535.17
499.90	496.03	500.85	470.26	501.81	500.70	502.64	654.49
499.91	495.58	500.86	531.48	501.82	601.73	502.66	507.50
499.92	506.09	500.87	488.66	501.83	499.52	502.67	490.48

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
502.68	499.21	503.47	541.46	504.40	501.12	505.26	476.96
502.70	493.88	503.50	514.62	504.41	512.20	505.27	486.01
502.71	502.43	503.51	522.65	504.42	512.10	505.28	497.59
502.72	492.95	503.52	509.90	504.45	497.99	505.29	501.57
502.73	580.83	503.53	654.17	504.46	599.02	505.30	497.21
502.74	501.33	503.56	509.13	504.47	655.09	505.31	535.18
502.75	509.04	503.57	598.27	504.48	511.37	505.32	499.05
502.76	589.14	503.58	501.81	504.49	505.82	505.33	526.90
502.79	506.60	503.62	508.44	504.50	511.73	505.36	508.31
502.80	499.92	503.64	505.98	504.52	508.90	505.37	503.37
502.81	457.81	503.67	597.83	504.53	499.79	505.38	566.16
502.82	534.93	503.68	516.89	504.54	501.65	505.40	505.57
502.84	512.92	503.69	538.25	504.55	600.72	505.43	492.71
502.85	513.64	503.71	501.27	504.56	505.89	505.44	506.48
502.86	505.98	503.72	536.54	504.57	506.68	505.46	508.32
502.88	510.43	503.74	512.30	504.59	510.69	505.49	513.94
502.89	491.48	503.75	599.74	504.60	511.78	505.50	508.37
502.90	600.31	503.77	494.81	504.63	589.39	505.51	498.84
502.91	497.45	503.78	499.53	504.66	510.87	505.52	501.68
502.92	600.45	503.80	500.97	504.67	506.31	505.54	537.36
502.93	511.47	503.81	533.19	504.68	511.39	505.55	576.81
502.94	537.95	503.82	512.72	504.69	530.74	505.56	502.60
502.95	491.91	503.83	502.93	504.70	506.96	505.57	500.43
502.97	599.08	503.84	504.18	504.71	511.46	505.58	501.20
502.98	514.06	503.86	526.26	504.72	547.27	505.59	600.80
502.99	517.07	503.88	510.50	504.75	491.82	505.60	512.22
503.00	588.77	503.89	509.64	504.76	505.68	505.62	497.32
503.01	530.67	503.91	495.78	504.79	533.26	505.63	503.17
503.02	491.36	503.92	509.47	504.81	499.11	505.64	599.29
503.04	507.03	503.94	512.66	504.84	525.31	505.65	508.14
503.05	500.65	503.95	597.88	504.85	512.46	505.66	505.37
503.07	508.50	503.97	654.14	504.87	514.83	505.67	599.75
503.08	517.60	504.01	510.00	504.88	524.14	505.68	505.93
503.09	505.68	504.02	535.12	504.89	500.33	505.69	599.93
503.10	512.22	504.03	499.89	504.90	519.14	505.70	508.49
503.11	502.67	504.04	510.11	504.91	506.27	505.72	536.70
503.13	521.19	504.05	520.35	504.92	502.34	505.73	511.02
503.15	628.39	504.07	511.51	504.94	507.12	505.74	504.88
503.16	493.77	504.08	505.04	504.96	503.23	505.76	504.38
503.19	505.70	504.10	499.12	504.97	542.61	505.78	509.74
503.21	521.74	504.11	499.73	504.98	502.30	505.79	511.10
503.23	628.18	504.13	505.71	504.99	500.20	505.81	523.93
503.24	579.20	504.15	496.44	505.00	598.65	505.82	501.16
503.26	599.12	504.16	600.64	505.01	511.25	505.85	599.62
503.28	514.52	504.18	505.55	505.03	494.00	505.86	482.51
503.29	498.13	504.19	484.29	505.04	522.46	505.87	499.43
503.30	509.44	504.20	525.89	505.05	542.47	505.88	508.82
503.33	493.98	504.22	654.16	505.07	498.76	505.92	600.11
503.35	600.39	504.23	628.25	505.09	508.16	505.93	508.42
503.36	498.73	504.24	506.00	505.10	558.52	505.94	498.24
503.37	506.80	504.27	512.01	505.11	505.14	505.95	506.20
503.38	587.94	504.28	495.04	505.12	501.34	505.97	517.04
503.39	508.46	504.29	488.99	505.13	508.92	505.98	499.79
503.40	501.09	504.30	522.45	505.14	503.28	505.99	496.65
503.41	492.09	504.31	504.59	505.17	510.72	506.00	589.46
503.42	496.84	504.32	503.92	505.18	555.36	506.01	494.71
503.43	513.10	504.33	495.96	505.19	512.22	506.02	535.80
503.44	588.57	504.34	503.74	505.20	499.17	506.04	498.46
503.45	502.51	504.35	508.30	505.21	503.90	506.05	508.70
503.46	513.52	504.38	494.79	505.25	509.92	506.07	518.16

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
506.08	540.22	506.97	505.37	507.78	504.85	508.59	577.66
506.10	500.76	506.98	506.17	507.79	599.45	508.60	511.83
506.11	541.94	506.99	495.01	507.80	534.90	508.62	505.36
506.12	601.46	507.00	512.05	507.82	508.37	508.63	508.11
506.15	510.72	507.01	587.67	507.84	507.29	508.65	502.49
506.16	513.76	507.03	513.38	507.85	518.79	508.66	654.66
506.17	507.73	507.04	513.75	507.87	549.81	508.68	509.85
506.18	654.99	507.05	509.85	507.88	506.08	508.69	600.35
506.19	508.88	507.06	486.12	507.89	512.82	508.70	509.56
506.20	513.25	507.08	496.60	507.90	513.34	508.71	514.32
506.21	599.48	507.09	575.19	507.91	598.52	508.72	502.04
506.22	507.76	507.10	485.36	507.92	516.59	508.74	494.12
506.24	521.66	507.11	573.88	507.95	499.59	508.76	495.57
506.25	501.16	507.14	518.07	507.97	545.54	508.77	504.31
506.31	546.40	507.15	513.96	507.98	502.94	508.78	483.50
506.32	534.61	507.17	541.20	507.99	515.43	508.80	504.03
506.33	581.00	507.18	506.16	508.00	506.21	508.81	599.98
506.34	482.07	507.19	511.75	508.02	496.17	508.82	507.52
506.35	509.84	507.20	512.32	508.05	510.39	508.83	510.78
506.36	509.01	507.22	509.96	508.06	503.79	508.84	541.48
506.37	509.76	507.23	500.05	508.11	506.06	508.90	504.26
506.41	511.75	507.24	531.98	508.12	504.95	508.91	509.38
506.43	598.75	507.26	589.10	508.13	511.68	508.94	503.20
506.44	504.54	507.27	503.45	508.14	512.17	508.96	523.12
506.45	536.56	507.28	514.25	508.15	511.62	508.98	507.47
506.46	505.42	507.30	508.66	508.17	532.52	508.99	508.20
506.47	494.58	507.32	498.01	508.18	505.84	509.00	512.66
506.48	485.33	507.33	512.25	508.19	541.39	509.01	541.09
506.49	500.25	507.34	500.34	508.20	535.76	509.03	510.92
506.51	492.54	507.35	502.92	508.21	512.08	509.04	514.29
506.54	535.20	507.36	509.65	508.22	509.62	509.05	504.33
506.57	498.30	507.37	519.31	508.23	498.97	509.06	502.07
506.58	502.11	507.38	506.30	508.24	525.23	509.08	505.88
506.59	541.68	507.40	504.93	508.26	498.23	509.10	654.74
506.61	500.83	507.41	519.15	508.27	510.10	509.12	511.12
506.62	503.58	507.43	511.49	508.28	508.37	509.13	519.66
506.63	509.76	507.45	511.45	508.29	514.01	509.14	522.67
506.66	511.32	507.47	601.64	508.30	503.38	509.17	509.19
506.68	585.36	507.49	514.17	508.31	493.68	509.18	501.55
506.69	511.21	507.50	504.51	508.32	508.88	509.19	503.48
506.70	499.57	507.51	512.49	508.34	496.69	509.21	498.04
506.71	501.19	507.52	501.88	508.35	589.21	509.22	543.83
506.72	510.95	507.53	598.95	508.36	500.65	509.23	519.41
506.73	534.69	507.54	511.13	508.37	589.57	509.24	511.61
506.74	628.35	507.55	497.18	508.39	516.64	509.25	504.48
506.76	509.81	507.56	518.41	508.40	469.63	509.27	505.76
506.77	509.83	507.57	510.24	508.42	489.23	509.28	512.35
506.78	506.52	507.58	498.40	508.43	513.59	509.30	508.73
506.79	518.16	507.59	599.38	508.44	510.38	509.31	511.51
506.81	499.46	507.61	500.78	508.45	544.68	509.32	513.99
506.83	506.42	507.62	579.93	508.47	511.56	509.33	498.02
506.84	529.70	507.63	499.28	508.48	494.64	509.36	509.26
506.85	512.04	507.64	500.57	508.49	509.68	509.38	529.16
506.87	504.39	507.67	514.48	508.50	508.12	509.40	502.47
506.88	522.53	507.68	533.81	508.51	502.77	509.41	507.08
506.89	508.28	507.69	519.23	508.53	509.86	509.43	510.56
506.90	541.29	507.70	514.43	508.54	538.08	509.44	511.42
506.91	476.30	507.71	509.60	508.55	500.99	509.45	509.66
506.92	486.80	507.74	513.01	508.56	512.57	509.46	535.73
506.95	509.74	507.77	515.17	508.58	504.79	509.47	520.34

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
509.49	504.39	510.40	521.64	511.39	510.54	512.21	519.36
509.51	488.16	510.42	505.13	511.43	508.73	512.22	518.39
509.52	506.26	510.43	520.32	511.44	654.30	512.23	501.60
509.57	513.27	510.44	501.47	511.46	504.77	512.24	512.33
509.58	501.34	510.46	536.38	511.47	511.93	512.26	501.65
509.61	514.01	510.49	515.01	511.49	509.54	512.27	513.89
509.62	510.14	510.50	504.38	511.50	509.12	512.28	509.71
509.64	510.76	510.52	500.43	511.53	545.53	512.31	503.88
509.65	523.76	510.54	508.09	511.54	521.33	512.33	533.99
509.66	542.06	510.55	509.53	511.55	506.28	512.35	515.63
509.67	503.60	510.58	509.97	511.56	589.84	512.37	515.34
509.68	515.79	510.59	513.86	511.57	514.06	512.39	514.17
509.69	499.81	510.61	520.06	511.58	511.24	512.40	511.09
509.70	503.65	510.64	508.88	511.60	505.16	512.41	589.72
509.71	654.77	510.66	513.62	511.61	542.82	512.42	548.41
509.72	589.11	510.68	512.68	511.62	515.49	512.43	537.92
509.74	628.37	510.70	540.06	511.63	653.98	512.44	654.34
509.75	510.22	510.71	502.03	511.64	600.53	512.45	514.91
509.76	535.98	510.74	519.47	511.65	497.18	512.47	654.62
509.77	518.80	510.77	514.44	511.67	516.80	512.48	481.39
509.78	497.16	510.80	513.17	511.68	506.92	512.49	519.34
509.79	514.24	510.81	505.89	511.71	493.52	512.51	517.97
509.82	557.51	510.84	507.05	511.72	564.02	512.52	510.51
509.83	506.38	510.86	506.88	511.73	509.33	512.56	598.86
509.84	537.12	510.87	505.42	511.74	601.08	512.57	600.32
509.85	505.51	510.90	495.01	511.76	511.64	512.58	524.15
509.87	515.46	510.91	508.71	511.77	600.43	512.59	503.47
509.88	515.89	510.92	521.50	511.78	601.15	512.60	480.41
509.89	498.13	510.93	506.27	511.80	503.71	512.61	496.09
509.92	600.96	510.94	467.43	511.81	538.68	512.62	513.94
509.93	514.14	510.95	584.85	511.82	506.14	512.63	501.54
509.94	549.77	510.96	515.73	511.83	500.76	512.64	511.54
509.96	512.66	510.99	514.84	511.84	601.36	512.65	512.58
509.97	507.84	511.00	542.91	511.86	496.95	512.66	538.67
509.98	507.20	511.01	508.12	511.88	514.11	512.67	513.66
510.02	507.56	511.02	534.84	511.90	516.96	512.69	517.28
510.04	507.84	511.03	508.05	511.91	500.50	512.71	654.66
510.07	515.74	511.04	539.82	511.92	511.80	512.72	518.72
510.09	572.08	511.05	518.86	511.93	513.43	512.73	515.83
510.10	511.74	511.07	506.08	511.94	499.19	512.74	511.26
510.12	511.70	511.08	532.71	511.97	506.91	512.75	505.84
510.13	501.48	511.09	528.92	511.98	503.90	512.76	519.95
510.15	506.25	511.10	503.07	511.99	549.33	512.77	515.52
510.16	542.95	511.11	549.36	512.01	513.60	512.78	598.57
510.17	514.22	511.14	523.36	512.02	509.53	512.79	499.59
510.20	508.71	511.16	505.99	512.03	515.61	512.80	496.47
510.21	546.44	511.17	511.68	512.04	518.41	512.81	513.94
510.22	519.53	511.18	510.22	512.05	512.07	512.82	628.41
510.23	511.33	511.20	490.24	512.06	515.82	512.84	655.18
510.24	499.77	511.21	525.27	512.07	521.72	512.85	505.41
510.25	511.84	511.22	515.25	512.08	501.43	512.86	515.52
510.28	511.25	511.23	506.27	512.09	510.10	512.87	504.86
510.30	515.15	511.24	544.58	512.11	515.40	512.89	506.42
510.31	501.73	511.25	497.28	512.13	589.46	512.91	515.95
510.33	598.14	511.26	506.55	512.14	510.48	512.92	522.16
510.34	600.20	511.28	509.25	512.15	516.35	512.93	516.19
510.35	530.32	511.30	505.45	512.16	503.93	512.96	524.87
510.36	518.46	511.32	502.42	512.18	513.04	512.97	502.83
510.37	544.57	511.36	516.88	512.19	583.99	512.98	548.13
510.39	601.55	511.38	499.33	512.20	514.19	512.99	513.41

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
513.00	512.68	513.91	508.13	514.91	514.96	515.78	589.93
513.01	536.27	513.93	546.38	514.92	581.92	515.79	508.22
513.05	479.55	513.97	515.87	514.93	510.59	515.81	522.61
513.08	505.57	513.98	589.75	514.94	589.57	515.82	502.65
513.09	511.40	513.99	511.28	514.95	654.61	515.84	518.36
513.10	534.67	514.00	502.48	514.97	511.03	515.86	549.50
513.12	653.93	514.01	507.70	514.98	504.67	515.87	545.93
513.13	514.37	514.05	508.05	515.01	589.29	515.88	516.66
513.14	506.63	514.06	512.72	515.02	511.01	515.89	506.67
513.15	589.51	514.09	516.82	515.03	541.09	515.92	512.21
513.16	599.49	514.10	517.25	515.05	509.78	515.93	511.05
513.18	512.21	514.14	551.12	515.06	510.90	515.94	518.07
513.19	503.99	514.16	603.67	515.07	502.32	515.95	530.92
513.20	507.50	514.19	563.76	515.08	513.57	515.96	522.51
513.21	601.54	514.20	516.04	515.09	514.15	515.98	514.04
513.22	543.44	514.21	598.80	515.12	513.07	515.99	524.83
513.25	512.99	514.22	495.65	515.13	513.92	516.00	539.53
513.28	555.22	514.23	578.38	515.14	518.71	516.02	518.07
513.29	512.86	514.24	601.49	515.16	516.17	516.03	545.31
513.30	521.47	514.25	497.59	515.17	544.43	516.05	503.59
513.34	521.85	514.26	510.34	515.18	513.94	516.06	511.87
513.35	511.98	514.28	600.45	515.19	519.09	516.07	517.78
513.37	495.22	514.30	535.15	515.21	506.43	516.10	511.02
513.39	654.10	514.31	513.13	515.22	541.09	516.11	552.88
513.41	502.64	514.32	538.82	515.23	508.21	516.13	496.98
513.42	507.17	514.33	514.22	515.24	542.69	516.16	600.12
513.43	516.70	514.35	600.07	515.27	549.86	516.17	511.15
513.46	554.36	514.36	654.94	515.29	508.69	516.18	516.26
513.47	499.47	514.39	521.74	515.30	515.11	516.20	506.70
513.48	513.34	514.42	500.90	515.31	590.05	516.21	512.28
513.50	515.65	514.43	510.53	515.32	513.42	516.23	514.17
513.51	589.92	514.44	537.87	515.35	522.68	516.24	504.54
513.52	514.07	514.45	503.41	515.36	499.64	516.25	510.11
513.54	506.79	514.46	541.73	515.37	500.57	516.26	520.60
513.56	505.17	514.47	513.54	515.38	541.88	516.27	507.88
513.57	599.48	514.48	516.20	515.39	524.33	516.28	512.93
513.58	511.36	514.50	508.93	515.41	590.75	516.29	538.54
513.59	518.38	514.55	504.62	515.43	517.14	516.30	511.50
513.60	504.34	514.56	508.90	515.45	518.56	516.31	540.83
513.61	526.34	514.57	504.51	515.46	505.37	516.33	516.25
513.63	503.59	514.59	510.79	515.48	510.42	516.34	515.93
513.65	502.98	514.61	506.21	515.49	517.22	516.36	521.79
513.67	547.24	514.63	548.47	515.50	515.40	516.37	545.53
513.68	514.12	514.64	514.49	515.52	505.74	516.39	509.52
513.69	502.72	514.65	513.45	515.53	523.29	516.40	510.48
513.70	564.14	514.66	542.95	515.54	515.04	516.44	520.04
513.71	546.15	514.67	500.14	515.56	516.61	516.45	585.66
513.73	543.24	514.68	504.76	515.57	504.46	516.46	518.05
513.75	503.84	514.70	518.38	515.58	521.58	516.47	549.85
513.76	524.60	514.71	572.77	515.59	513.38	516.49	521.90
513.77	542.07	514.72	517.77	515.61	502.92	516.50	546.73
513.78	499.80	514.74	523.72	515.63	516.51	516.51	523.91
513.82	509.84	514.76	521.42	515.66	510.36	516.52	491.47
513.83	513.95	514.79	508.97	515.67	506.17	516.53	541.01
513.85	533.40	514.81	514.94	515.68	508.85	516.54	482.53
513.86	512.99	514.82	517.09	515.69	506.72	516.55	543.62
513.87	514.23	514.84	511.61	515.71	533.30	516.56	506.25
513.88	543.32	514.86	542.08	515.72	519.33	516.58	540.78
513.89	523.50	514.87	511.05	515.75	654.85	516.61	602.23
513.90	496.59	514.90	503.28	515.76	518.12	516.62	511.05

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
516.63	519.18	517.59	512.12	518.57	519.21	519.50	514.59
516.64	602.68	517.60	529.34	518.58	524.74	519.51	517.47
516.65	514.74	517.61	499.75	518.62	524.12	519.52	516.47
516.66	545.80	517.66	515.56	518.63	525.29	519.55	518.64
516.68	521.81	517.67	524.55	518.64	517.98	519.58	517.21
516.72	597.22	517.69	518.08	518.65	550.09	519.59	543.67
516.77	547.90	517.74	534.43	518.68	543.57	519.63	587.14
516.78	507.16	517.75	505.93	518.69	516.32	519.64	513.19
516.79	512.74	517.77	518.66	518.72	504.17	519.65	500.25
516.84	509.20	517.78	572.75	518.73	515.56	519.66	654.42
516.85	513.98	517.79	517.50	518.75	515.11	519.69	518.15
516.87	543.64	517.80	524.60	518.77	515.17	519.71	551.40
516.88	506.92	517.81	537.87	518.78	518.82	519.73	514.25
516.89	510.77	517.82	517.49	518.79	549.06	519.74	518.31
516.92	513.25	517.83	543.92	518.80	510.88	519.75	589.75
516.93	522.00	517.85	522.69	518.81	481.55	519.77	516.26
516.94	506.02	517.86	592.49	518.82	532.51	519.78	510.12
516.95	512.83	517.87	655.39	518.83	513.84	519.81	513.10
516.96	518.15	517.89	599.47	518.84	517.41	519.83	539.40
516.97	515.93	517.91	519.40	518.85	525.27	519.84	520.66
516.98	505.97	517.92	599.21	518.86	602.32	519.86	508.79
517.00	514.65	517.95	601.17	518.91	514.31	519.87	503.86
517.02	570.10	517.97	505.00	518.93	518.92	519.90	516.40
517.05	481.77	517.98	516.66	518.94	512.61	519.92	533.94
517.06	586.05	518.00	601.12	518.95	512.52	519.93	523.53
517.07	498.67	518.01	515.98	518.98	519.68	519.94	510.80
517.08	533.79	518.03	601.17	518.99	529.43	519.95	550.12
517.10	480.74	518.04	520.91	519.00	519.46	519.97	535.35
517.11	547.07	518.06	509.79	519.01	513.03	519.98	567.33
517.14	599.67	518.07	517.08	519.03	601.56	520.04	599.24
517.16	602.67	518.10	524.78	519.04	521.75	520.05	512.75
517.19	505.65	518.12	508.47	519.05	518.31	520.06	519.65
517.20	557.13	518.15	599.56	519.06	519.51	520.07	601.02
517.21	515.71	518.16	513.63	519.07	589.95	520.08	509.80
517.23	512.03	518.19	508.88	519.08	516.27	520.09	544.64
517.24	508.56	518.21	516.02	519.09	589.57	520.11	523.47
517.25	516.41	518.22	512.80	519.10	519.06	520.12	545.95
517.26	535.55	518.24	511.99	519.11	506.94	520.16	543.91
517.27	510.80	518.27	602.87	519.12	503.07	520.18	590.81
517.30	510.36	518.28	589.34	519.13	518.52	520.23	505.31
517.31	628.27	518.30	505.58	519.15	590.87	520.25	518.69
517.33	513.26	518.31	512.41	519.17	518.09	520.26	550.39
517.34	506.60	518.33	533.76	519.19	518.91	520.27	507.72
517.35	514.37	518.34	510.16	519.20	514.09	520.30	598.93
517.36	542.33	518.35	520.21	519.21	509.63	520.31	518.00
517.37	516.39	518.36	540.02	519.22	515.53	520.32	518.46
517.38	517.06	518.38	542.05	519.23	509.12	520.33	515.54
517.39	519.46	518.39	520.26	519.25	550.03	520.35	510.10
517.41	518.73	518.40	516.81	519.26	509.56	520.36	511.43
517.42	547.07	518.41	517.07	519.27	540.90	520.37	518.51
517.43	512.25	518.43	529.96	519.28	513.54	520.38	542.58
517.44	601.39	518.44	513.58	519.31	545.09	520.39	516.39
517.46	512.85	518.45	588.38	519.34	590.32	520.41	503.20
517.49	512.36	518.46	547.15	519.38	600.77	520.42	600.19
517.50	516.96	518.47	516.17	519.40	521.98	520.44	518.24
517.51	523.47	518.48	513.46	519.42	583.73	520.45	564.89
517.53	515.04	518.50	526.49	519.44	521.21	520.48	514.89
517.54	518.13	518.52	524.17	519.45	530.90	520.50	524.18
517.56	537.12	518.54	492.86	519.48	524.61	520.51	506.94
517.57	600.36	518.56	546.54	519.49	514.45	520.52	514.16

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
520.53	524.19	521.44	515.92	522.26	601.66	523.04	517.36
520.54	521.39	521.45	510.01	522.27	517.71	523.05	520.97
520.56	526.31	521.48	519.33	522.28	518.55	523.06	522.46
520.57	547.19	521.49	524.00	522.31	601.33	523.07	541.83
520.58	591.59	521.50	516.75	522.32	599.07	523.09	554.43
520.60	522.76	521.53	528.83	522.34	519.87	523.10	478.63
520.61	519.65	521.54	485.29	522.35	511.11	523.11	545.24
520.63	549.41	521.56	507.80	522.36	582.12	523.12	543.23
520.64	511.87	521.57	525.17	522.37	521.14	523.13	522.91
520.65	555.88	521.58	512.16	522.38	515.54	523.15	523.65
520.68	571.02	521.61	504.53	522.39	570.12	523.16	504.27
520.69	602.60	521.62	522.03	522.40	549.33	523.17	522.27
520.71	515.47	521.64	601.31	522.41	521.48	523.19	521.50
520.72	532.33	521.65	514.18	522.42	510.41	523.20	511.04
520.73	519.52	521.66	521.64	522.43	510.65	523.22	518.36
520.74	503.50	521.67	591.59	522.45	540.95	523.23	522.15
520.75	513.58	521.68	520.31	522.46	530.93	523.24	590.46
520.76	496.22	521.69	601.32	522.47	545.52	523.25	590.71
520.77	550.58	521.70	510.67	522.48	512.38	523.27	516.54
520.78	520.19	521.71	590.07	522.50	506.27	523.28	515.86
520.79	510.76	521.72	508.71	522.51	521.34	523.29	600.78
520.81	600.16	521.73	520.86	522.52	523.05	523.30	515.87
520.82	513.92	521.74	553.17	522.53	520.63	523.33	518.94
520.83	516.86	521.76	511.55	522.54	592.91	523.34	519.86
520.84	512.36	521.77	600.33	522.55	512.75	523.36	528.65
520.85	503.60	521.78	513.06	522.56	509.11	523.37	516.99
520.86	500.84	521.79	511.05	522.57	521.66	523.40	548.92
520.87	520.71	521.80	528.08	522.58	601.89	523.42	588.02
520.88	520.70	521.84	518.88	522.59	600.47	523.44	520.62
520.89	598.36	521.86	538.95	522.60	513.42	523.45	518.12
520.91	524.29	521.87	599.39	522.64	524.09	523.46	600.02
520.93	506.95	521.89	553.23	522.65	539.92	523.47	516.88
520.94	512.37	521.90	515.65	522.68	550.02	523.48	519.55
520.95	587.86	521.91	506.12	522.69	601.32	523.50	534.80
520.96	550.21	521.93	508.15	522.70	590.50	523.51	517.94
520.97	517.44	521.94	554.83	522.71	520.96	523.52	521.49
520.99	505.77	521.95	524.62	522.73	541.87	523.53	528.49
521.00	517.94	521.96	516.03	522.74	515.67	523.54	629.17
521.01	514.85	521.97	520.48	522.75	517.25	523.57	531.21
521.02	599.99	521.99	530.57	522.76	525.54	523.58	519.66
521.04	628.54	522.00	517.38	522.77	522.49	523.59	549.14
521.06	520.54	522.01	553.82	522.78	527.77	523.60	527.95
521.10	512.68	522.03	543.87	522.79	526.21	523.61	521.57
521.11	502.22	522.04	507.52	522.80	557.89	523.62	508.90
521.12	519.25	522.06	602.36	522.81	524.48	523.63	516.24
521.13	492.20	522.07	577.52	522.82	600.28	523.64	516.96
521.14	513.30	522.08	519.86	522.83	511.46	523.66	513.15
521.18	628.98	522.09	551.63	522.84	517.63	523.67	569.13
521.20	512.02	522.10	516.42	522.86	551.10	523.68	527.32
521.21	520.66	522.11	511.49	522.87	544.89	523.69	520.75
521.24	502.81	522.12	519.57	522.88	502.89	523.70	518.10
521.27	603.37	522.14	527.20	522.90	528.60	523.71	562.75
521.29	590.01	522.15	545.29	522.91	602.84	523.74	544.02
521.30	547.66	522.16	604.34	522.92	516.10	523.75	535.18
521.33	518.40	522.18	519.65	522.95	521.36	523.76	506.91
521.34	549.15	522.19	521.09	522.96	506.53	523.77	520.06
521.35	519.81	522.20	514.26	522.98	539.50	523.78	511.58
521.37	601.86	522.21	521.66	522.99	547.66	523.79	537.28
521.38	512.05	522.23	518.04	523.01	522.65	523.80	515.67
521.39	543.30	522.24	520.77	523.03	511.93	523.81	654.89



PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
523.82	557.32	524.67	590.57	525.62	590.18	526.57	655.39
523.83	509.69	524.68	522.44	525.63	597.88	526.58	521.57
523.84	513.67	524.69	590.48	525.68	521.71	526.59	509.86
523.85	527.40	524.70	553.55	525.69	521.26	526.60	520.41
523.87	575.15	524.71	525.71	525.70	521.02	526.62	518.54
523.88	500.22	524.72	557.44	525.71	516.99	526.65	523.12
523.89	555.44	524.74	550.11	525.72	501.47	526.66	514.83
523.90	505.49	524.77	513.29	525.75	523.76	526.67	523.33
523.91	509.94	524.78	520.89	525.76	590.45	526.68	549.12
523.93	525.23	524.83	556.59	525.77	589.99	526.69	522.95
523.94	520.45	524.84	517.76	525.79	523.61	526.70	516.13
523.95	521.08	524.85	522.77	525.80	508.85	526.71	522.38
523.96	549.17	524.86	506.13	525.83	520.87	526.72	521.44
523.97	577.78	524.88	521.79	525.84	517.13	526.75	522.27
523.98	655.56	524.90	524.36	525.86	517.14	526.76	516.72
524.03	521.14	524.91	520.00	525.90	552.06	526.77	554.75
524.05	520.99	524.92	514.20	525.91	519.49	526.78	517.79
524.06	552.44	524.93	507.90	525.92	655.37	526.79	524.89
524.07	550.79	524.95	628.46	525.93	555.99	526.81	513.00
524.08	515.20	524.96	543.64	525.94	520.01	526.84	515.93
524.10	518.11	524.97	510.74	525.95	513.09	526.85	526.27
524.12	524.25	524.99	518.20	525.96	520.74	526.86	508.23
524.13	654.49	525.00	525.15	525.98	522.07	526.88	523.02
524.14	519.68	525.02	524.11	525.99	602.07	526.91	523.50
524.16	511.17	525.05	552.91	526.03	519.95	526.92	505.34
524.20	603.55	525.07	520.73	526.04	601.71	526.93	655.44
524.21	510.90	525.08	510.13	526.05	524.58	526.94	523.86
524.22	517.07	525.11	517.88	526.07	508.76	526.95	519.28
524.23	512.61	525.14	517.81	526.10	555.94	526.96	523.52
524.24	510.37	525.15	601.97	526.11	549.80	526.97	600.67
524.25	516.28	525.16	524.47	526.12	520.35	526.99	555.32
524.26	516.19	525.17	655.18	526.14	562.03	527.00	507.27
524.27	520.68	525.19	526.17	526.17	524.56	527.01	542.46
524.29	519.36	525.21	522.48	526.18	505.55	527.02	568.83
524.30	524.03	525.22	514.24	526.20	516.23	527.04	514.76
524.31	601.92	525.23	506.97	526.21	484.19	527.08	529.63
524.32	519.00	525.24	515.80	526.22	521.86	527.09	556.32
524.35	514.78	525.25	493.66	526.23	523.54	527.10	522.82
524.37	536.16	525.26	545.48	526.24	530.39	527.12	523.74
524.39	628.63	525.27	514.63	526.25	600.99	527.13	527.14
524.40	510.62	525.32	522.73	526.26	521.79	527.15	517.62
524.42	518.88	525.33	590.43	526.27	517.07	527.16	527.80
524.44	527.96	525.34	547.86	526.28	525.23	527.17	519.82
524.46	523.06	525.36	520.69	526.29	522.76	527.18	513.79
524.47	518.97	525.38	518.75	526.30	523.40	527.19	554.44
524.48	511.26	525.39	513.34	526.32	523.29	527.21	515.83
524.49	546.81	525.40	499.12	526.34	526.81	527.22	524.20
524.50	507.85	525.41	516.23	526.36	512.55	527.23	523.35
524.51	556.73	525.42	511.96	526.37	521.90	527.25	524.56
524.52	602.89	525.43	513.25	526.38	655.00	527.28	515.01
524.54	518.11	525.44	655.21	526.39	552.85	527.30	514.70
524.56	553.23	525.46	517.29	526.40	539.34	527.31	602.22
524.59	522.86	525.51	517.91	526.41	654.74	527.32	599.39
524.60	513.72	525.52	521.90	526.42	521.50	527.33	517.61
524.61	521.88	525.54	536.00	526.43	521.92	527.37	602.88
524.62	541.09	525.55	522.05	526.46	549.03	527.38	527.19
524.63	523.57	525.56	541.62	526.48	523.94	527.41	553.73
524.64	514.43	525.57	527.00	526.51	520.71	527.44	602.91
524.65	601.92	525.58	518.78	526.54	521.78	527.46	552.59
524.66	551.69	525.60	523.83	526.55	518.65	527.47	519.02

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
527.48	520.92	528.45	605.14	529.36	516.62	530.27	517.40
527.51	654.90	528.46	549.95	529.38	520.99	530.28	521.20
527.52	522.27	528.49	511.96	529.39	560.12	530.29	601.62
527.53	490.63	528.51	602.21	529.40	527.36	530.31	521.14
527.54	514.94	528.54	520.74	529.42	602.08	530.33	520.11
527.56	525.62	528.55	517.54	529.43	519.01	530.34	655.86
527.57	562.15	528.56	546.95	529.44	526.28	530.35	566.59
527.59	564.02	528.57	563.33	529.48	522.68	530.36	524.44
527.60	512.90	528.59	525.48	529.50	521.33	530.37	565.60
527.63	531.32	528.60	514.95	529.51	526.83	530.38	535.00
527.64	521.21	528.61	595.21	529.53	590.52	530.39	529.35
527.65	521.05	528.62	590.82	529.54	520.93	530.40	556.53
527.66	601.19	528.63	559.70	529.55	521.42	530.41	521.74
527.69	515.08	528.65	520.85	529.58	547.72	530.44	586.42
527.70	602.05	528.67	517.71	529.59	522.88	530.45	523.38
527.76	553.54	528.68	556.74	529.60	511.86	530.47	526.22
527.78	600.51	528.69	521.28	529.61	546.58	530.48	515.26
527.79	602.27	528.71	602.27	529.63	523.41	530.50	526.21
527.80	524.68	528.72	524.20	529.65	524.61	530.51	517.55
527.81	655.68	528.74	543.76	529.66	518.92	530.52	655.72
527.82	529.69	528.75	601.32	529.67	601.00	530.54	561.61
527.83	513.09	528.76	519.17	529.68	548.01	530.55	550.84
527.84	508.80	528.77	508.83	529.69	523.47	530.58	551.53
527.85	567.62	528.83	512.48	529.70	531.68	530.59	559.76
527.88	500.14	528.84	519.65	529.72	559.89	530.60	545.98
527.89	524.10	528.86	561.01	529.75	522.47	530.64	521.04
527.92	513.48	528.87	571.28	529.77	524.14	530.66	516.40
527.94	520.07	528.88	520.76	529.79	512.84	530.67	522.04
527.98	523.15	528.90	517.82	529.80	531.18	530.71	563.22
528.00	573.20	528.91	530.53	529.82	522.91	530.73	581.33
528.01	519.00	528.93	522.31	529.83	511.62	530.74	533.91
528.02	604.50	528.94	546.94	529.84	590.42	530.75	560.64
528.03	518.42	528.96	528.74	529.85	524.15	530.76	519.19
528.07	519.29	528.97	523.04	529.88	516.60	530.77	532.28
528.08	497.29	528.98	522.20	529.89	593.84	530.78	555.99
528.10	655.35	529.00	519.57	529.90	567.79	530.79	520.53
528.11	523.62	529.01	522.06	529.91	525.56	530.80	517.53
528.13	523.42	529.02	601.44	529.92	527.04	530.81	525.36
528.14	516.30	529.03	515.45	529.94	600.39	530.85	517.88
528.15	516.75	529.04	540.88	529.96	550.82	530.86	555.31
528.16	656.25	529.06	525.74	529.97	520.14	530.89	525.68
528.17	524.40	529.09	523.82	529.98	527.76	530.90	523.45
528.19	548.63	529.10	525.37	530.01	518.69	530.92	526.78
528.21	515.03	529.12	526.44	530.03	519.88	530.94	527.30
528.22	523.90	529.14	528.73	530.04	522.75	530.95	551.81
528.23	521.26	529.15	518.51	530.05	530.20	530.98	518.56
528.25	525.49	529.16	518.24	530.06	515.16	530.99	525.35
528.26	600.83	529.17	508.04	530.08	522.98	531.00	522.91
528.28	600.84	529.18	522.91	530.09	533.41	531.01	523.65
528.32	590.72	529.19	516.01	530.10	515.30	531.04	539.74
528.33	519.26	529.21	523.23	530.11	543.97	531.05	629.46
528.34	543.63	529.23	515.02	530.13	528.72	531.06	629.57
528.35	591.23	529.24	520.31	530.15	603.64	531.08	602.35
528.36	525.31	529.25	526.21	530.17	520.91	531.12	591.00
528.38	524.44	529.27	521.00	530.19	521.01	531.13	526.05
528.39	515.82	529.28	510.46	530.20	523.33	531.14	556.57
528.40	531.43	529.31	521.91	530.21	536.37	531.15	602.23
528.41	521.99	529.32	514.83	530.22	590.78	531.16	524.34
528.42	629.32	529.33	523.24	530.23	522.78	531.17	531.89
528.44	515.31	529.35	528.21	530.26	550.44	531.18	524.70

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
531.19	512.13	532.13	654.85	533.07	519.60	533.94	565.54
531.20	602.60	532.14	518.44	533.08	595.79	533.96	516.90
531.21	597.25	532.17	526.91	533.09	526.70	533.98	519.40
531.23	517.21	532.19	556.75	533.11	514.20	533.99	562.46
531.26	527.07	532.20	590.97	533.12	556.54	534.01	526.62
531.27	521.89	532.22	514.45	533.14	531.41	534.02	525.67
531.28	527.20	532.23	518.69	533.15	603.66	534.04	601.02
531.29	552.34	532.24	629.28	533.18	560.25	534.05	522.78
531.30	555.96	532.25	548.52	533.20	563.55	534.06	532.03
531.31	523.12	532.26	629.36	533.21	539.88	534.08	600.25
531.32	517.61	532.29	556.62	533.22	525.08	534.09	591.26
531.33	529.48	532.30	506.07	533.23	524.56	534.12	523.15
531.34	534.64	532.31	554.02	533.25	562.06	534.13	555.03
531.35	549.51	532.32	520.71	533.27	500.16	534.14	527.86
531.37	590.11	532.33	527.27	533.28	524.39	534.15	513.84
531.38	526.11	532.36	518.16	533.29	519.38	534.16	604.00
531.40	524.46	532.39	603.60	533.30	535.56	534.18	538.05
531.41	603.42	532.41	584.46	533.31	520.94	534.21	517.22
531.45	511.24	532.42	562.53	533.32	525.31	534.23	505.69
531.46	520.11	532.43	561.09	533.33	516.83	534.24	522.68
531.47	596.58	532.45	552.19	533.34	524.95	534.26	522.52
531.49	601.09	532.49	520.63	533.37	602.58	534.30	559.65
531.51	504.79	532.50	533.49	533.38	531.76	534.31	600.07
531.54	537.71	532.53	516.16	533.39	525.38	534.35	524.42
531.56	512.35	532.54	519.72	533.40	521.35	534.36	527.29
531.57	520.68	532.55	527.35	533.42	527.74	534.37	532.51
531.59	520.27	532.56	532.01	533.43	526.69	534.38	525.71
531.60	557.81	532.57	526.93	533.44	511.37	534.39	594.21
531.61	528.84	532.59	516.84	533.45	526.61	534.41	525.32
531.64	523.52	532.61	521.82	533.46	530.92	534.42	521.41
531.68	526.70	532.63	516.75	533.47	508.92	534.43	526.15
531.69	520.76	532.65	514.72	533.48	524.21	534.45	529.23
531.70	521.26	532.67	523.56	533.53	512.16	534.47	562.43
531.71	523.02	532.68	514.08	533.54	519.95	534.48	591.16
531.72	526.58	532.69	513.74	533.55	521.22	534.49	602.65
531.73	543.77	532.70	515.94	533.56	528.46	534.50	524.70
531.74	533.67	532.72	518.80	533.57	525.84	534.54	529.47
531.75	528.38	532.74	508.42	533.58	520.54	534.55	605.01
531.76	513.73	532.75	516.69	533.60	531.19	534.57	530.25
531.79	525.04	532.76	601.59	533.61	520.69	534.58	515.90
531.80	526.40	532.80	512.04	533.63	590.82	534.59	629.52
531.81	521.91	532.81	557.44	533.64	578.19	534.62	527.72
531.84	628.51	532.82	526.42	533.66	518.90	534.64	520.25
531.85	529.37	532.83	556.38	533.67	522.13	534.67	529.11
531.88	521.83	532.85	519.85	533.68	523.15	534.68	531.54
531.89	525.57	532.86	541.33	533.69	530.63	534.70	524.51
531.90	520.29	532.87	525.52	533.70	524.94	534.71	554.05
531.91	528.49	532.88	604.33	533.71	530.83	534.72	527.26
531.92	604.02	532.90	527.94	533.72	521.60	534.73	524.96
531.93	582.44	532.91	527.89	533.73	590.51	534.74	527.90
531.95	523.93	532.92	561.33	533.74	524.58	534.75	564.38
531.97	522.38	532.95	527.76	533.76	519.91	534.77	525.34
531.99	527.12	532.96	521.87	533.80	523.43	534.79	516.59
532.00	522.59	532.97	528.67	533.84	525.93	534.82	527.93
532.01	522.07	532.98	530.11	533.86	566.45	534.83	527.97
532.04	544.07	532.99	525.21	533.87	522.76	534.84	515.63
532.05	544.82	533.02	526.47	533.88	519.54	534.85	526.86
532.10	526.79	533.03	519.97	533.91	558.62	534.86	511.20
532.11	528.52	533.04	525.56	533.92	567.42	534.87	533.69
532.12	497.90	533.05	520.14	533.93	597.56	534.88	604.45

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
534.92	516.89	535.88	517.58	536.75	601.24	537.68	553.03
534.93	521.29	535.90	535.11	536.76	541.41	537.71	562.72
534.94	522.71	535.91	562.59	536.77	521.92	537.72	592.09
534.95	527.47	535.92	560.19	536.80	590.66	537.73	604.43
534.96	516.08	535.93	538.65	536.81	549.74	537.77	526.60
534.97	521.07	535.94	629.81	536.82	528.43	537.78	525.61
534.99	528.71	535.95	526.43	536.83	526.53	537.79	551.39
535.00	521.75	535.96	630.52	536.84	547.51	537.80	528.85
535.01	655.56	535.97	543.53	536.86	524.52	537.81	524.65
535.02	538.41	535.98	591.89	536.88	520.41	537.82	525.82
535.03	528.92	535.99	533.32	536.89	601.36	537.83	520.05
535.05	520.24	536.01	517.54	536.90	601.19	537.85	523.11
535.06	527.55	536.03	526.45	536.91	591.06	537.86	520.61
535.08	540.46	536.05	656.21	536.92	523.35	537.87	517.26
535.09	562.51	536.06	560.95	536.93	530.87	537.88	535.37
535.10	531.18	536.07	528.59	536.99	519.17	537.91	561.52
535.11	601.92	536.10	525.15	537.00	517.88	537.92	522.95
535.12	527.34	536.11	524.73	537.01	528.83	537.93	544.36
535.13	608.22	536.13	499.36	537.02	566.38	537.94	530.36
535.14	524.54	536.14	535.59	537.04	520.59	537.97	530.38
535.15	524.99	536.16	530.30	537.05	517.00	537.98	562.04
535.16	566.18	536.18	524.86	537.06	533.35	537.99	605.42
535.19	601.77	536.19	526.26	537.08	559.04	538.00	527.98
535.22	601.87	536.20	525.85	537.11	525.70	538.04	535.83
535.23	526.12	536.21	540.55	537.12	576.25	538.06	529.76
535.25	602.48	536.23	529.88	537.14	531.65	538.07	528.24
535.26	529.97	536.24	601.44	537.17	526.99	538.10	527.05
535.27	520.75	536.26	601.27	537.18	532.66	538.12	525.79
535.28	561.87	536.27	558.92	537.20	587.08	538.14	567.70
535.29	527.43	536.28	534.99	537.21	602.27	538.17	629.99
535.34	524.83	536.30	487.46	537.22	526.10	538.18	568.01
535.35	521.16	536.31	514.76	537.23	605.59	538.19	560.68
535.36	563.63	536.32	517.47	537.25	535.51	538.20	521.69
535.37	560.13	536.33	591.26	537.26	532.52	538.21	531.51
535.38	603.36	536.34	527.46	537.27	520.16	538.24	530.34
535.39	523.56	536.35	553.02	537.29	537.34	538.26	528.40
535.41	531.86	536.37	552.77	537.31	510.11	538.27	520.54
535.43	526.57	536.40	517.65	537.32	592.36	538.28	591.32
535.45	560.14	536.41	527.27	537.35	604.08	538.30	604.79
535.46	525.74	536.45	520.48	537.41	521.10	538.32	530.02
535.48	630.05	536.46	528.46	537.42	527.40	538.34	520.49
535.49	525.89	536.48	522.72	537.43	530.03	538.35	656.17
535.51	530.07	536.50	553.20	537.44	580.60	538.36	629.82
535.52	569.62	536.51	574.85	537.45	528.00	538.37	602.51
535.53	561.21	536.52	531.63	537.46	515.53	538.40	614.31
535.57	564.37	536.54	518.16	537.47	528.52	538.42	553.01
535.58	524.83	536.55	527.57	537.49	524.55	538.43	629.81
535.59	533.42	536.56	519.70	537.50	578.65	538.47	502.77
535.60	513.61	536.58	527.14	537.51	591.13	538.48	531.07
535.62	564.47	536.59	606.02	537.52	518.13	538.50	525.49
535.64	527.25	536.60	528.12	537.53	534.38	538.51	532.42
535.66	536.58	536.61	557.51	537.56	560.74	538.53	565.47
535.67	516.93	536.63	522.28	537.60	559.68	538.54	532.53
535.69	512.37	536.64	535.60	537.61	515.32	538.59	528.44
535.71	571.49	536.66	526.33	537.62	526.05	538.61	523.56
535.75	519.67	536.69	522.31	537.63	529.44	538.63	604.69
535.77	512.66	536.70	562.26	537.64	566.84	538.64	524.64
535.81	561.08	536.72	516.90	537.65	530.00	538.67	527.08
535.86	520.36	536.73	526.62	537.66	604.09	538.68	519.93
535.87	569.17	536.74	581.53	537.67	523.30	538.69	531.18

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
538.71	536.12	539.55	525.49	540.36	546.02	541.27	529.52
538.72	601.92	539.56	528.70	540.38	602.35	541.28	524.14
538.73	527.27	539.57	586.56	540.39	562.43	541.29	530.20
538.77	606.75	539.59	605.23	540.43	604.08	541.30	583.04
538.79	513.63	539.60	530.31	540.44	537.07	541.31	527.04
538.82	522.94	539.61	525.97	540.45	528.68	541.33	531.02
538.85	558.46	539.62	527.65	540.46	600.02	541.34	564.18
538.86	591.10	539.64	557.40	540.51	533.56	541.35	558.68
538.88	520.45	539.65	656.29	540.52	604.08	541.36	539.05
538.89	529.02	539.66	518.95	540.54	536.89	541.38	530.80
538.91	536.56	539.67	528.76	540.55	590.91	541.39	576.14
538.92	522.08	539.68	560.09	540.57	526.91	541.40	530.03
538.94	555.04	539.69	568.71	540.59	656.43	541.41	546.77
538.95	602.82	539.70	520.95	540.60	527.71	541.42	530.11
538.96	559.83	539.71	530.61	540.63	550.94	541.43	526.05
538.97	530.60	539.72	532.99	540.65	505.05	541.46	528.69
538.99	516.33	539.73	577.51	540.66	528.32	541.47	529.25
539.00	545.94	539.75	528.72	540.67	534.94	541.48	528.22
539.01	528.12	539.76	522.81	540.69	528.71	541.49	520.82
539.03	529.92	539.77	527.86	540.70	528.23	541.52	656.60
539.04	631.00	539.78	528.75	540.71	550.37	541.53	591.52
539.05	529.33	539.79	531.19	540.72	526.81	541.57	556.43
539.07	591.37	539.80	592.14	540.73	529.21	541.58	609.39
539.08	529.40	539.81	517.48	540.74	528.95	541.59	527.27
539.09	530.75	539.83	529.05	540.76	531.11	541.60	546.14
539.10	552.26	539.85	565.87	540.77	532.82	541.61	545.55
539.11	531.46	539.88	563.61	540.78	540.92	541.62	655.57
539.12	602.55	539.89	550.39	540.79	575.18	541.63	568.05
539.14	590.60	539.90	522.57	540.81	529.96	541.64	535.26
539.17	530.87	539.91	531.11	540.83	526.73	541.65	570.02
539.18	532.01	539.92	521.74	540.84	574.01	541.66	560.34
539.19	590.63	539.94	521.77	540.86	535.32	541.68	603.44
539.21	523.71	539.95	563.44	540.87	558.20	541.71	520.77
539.22	526.78	539.98	528.33	540.91	604.34	541.72	604.30
539.23	558.41	539.99	655.91	540.92	511.16	541.74	655.80
539.24	531.69	540.01	551.30	540.93	529.53	541.75	530.00
539.25	529.59	540.02	655.13	540.95	531.50	541.77	523.65
539.26	600.43	540.04	605.32	540.96	530.34	541.78	591.32
539.28	528.70	540.05	656.50	540.97	526.55	541.79	580.89
539.29	590.66	540.08	526.96	540.98	529.52	541.80	547.95
539.30	590.03	540.09	522.76	541.00	602.55	541.81	529.71
539.31	527.60	540.10	513.10	541.01	534.27	541.82	528.51
539.32	521.77	540.12	590.94	541.02	556.15	541.84	531.78
539.33	525.17	540.13	519.70	541.03	529.74	541.85	552.60
539.34	568.97	540.15	529.12	541.06	527.98	541.87	527.14
539.37	520.56	540.16	530.04	541.07	542.94	541.88	561.24
539.39	559.73	540.17	522.41	541.08	534.37	541.91	527.86
539.40	524.79	540.18	535.90	541.10	543.90	541.92	526.92
539.41	605.87	540.19	523.90	541.12	529.45	541.93	573.81
539.42	529.16	540.20	526.49	541.13	516.47	541.94	526.88
539.43	631.13	540.21	527.18	541.14	520.05	541.95	525.53
539.44	523.94	540.22	523.14	541.15	608.40	541.96	539.12
539.45	530.42	540.23	521.68	541.16	516.00	541.97	582.71
539.46	532.70	540.25	523.42	541.17	518.82	541.98	522.98
539.47	526.25	540.27	526.18	541.20	525.16	541.99	583.43
539.48	521.81	540.28	604.77	541.22	529.88	542.02	530.02
539.49	534.06	540.30	536.69	541.23	604.34	542.04	530.94
539.51	591.40	540.33	561.51	541.24	528.34	542.06	568.45
539.52	656.97	540.34	528.71	541.25	534.33	542.07	510.14
539.54	528.25	540.35	530.09	541.26	529.80	542.08	531.20

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
542.09	528.53	543.00	530.58	543.86	527.78	544.81	530.34
542.10	532.06	543.01	557.59	543.87	530.49	544.83	536.82
542.12	528.64	543.02	536.61	543.88	527.84	544.84	531.43
542.13	530.62	543.03	630.87	543.89	533.52	544.85	553.53
542.15	532.81	543.04	570.57	543.91	518.40	544.87	546.60
542.16	526.55	543.05	566.76	543.92	525.26	544.89	531.84
542.19	522.70	543.07	522.71	543.94	529.91	544.90	565.89
542.20	631.13	543.09	533.57	543.95	543.26	544.91	524.90
542.24	555.07	543.10	602.48	543.96	528.91	544.92	567.04
542.25	531.53	543.11	534.08	543.99	529.27	544.93	561.39
542.26	523.82	543.12	529.31	544.00	526.16	544.94	530.52
542.27	530.77	543.13	520.10	544.01	655.80	544.95	530.08
542.28	552.30	543.14	570.50	544.02	528.51	544.96	606.41
542.29	537.44	543.15	558.87	544.03	555.78	544.97	529.75
542.31	601.69	543.16	527.25	544.05	528.15	544.98	562.53
542.32	528.56	543.17	532.93	544.06	538.30	544.99	604.06
542.33	532.48	543.18	523.69	544.10	603.68	545.01	529.46
542.34	533.39	543.21	530.78	544.11	536.57	545.03	614.27
542.35	602.38	543.22	604.94	544.13	655.74	545.04	570.67
542.36	522.41	543.23	547.65	544.14	537.06	545.05	536.68
542.38	528.50	543.24	603.10	544.16	573.53	545.06	524.81
542.39	517.32	543.25	539.08	544.17	603.87	545.08	538.20
542.40	603.48	543.26	655.73	544.18	530.28	545.09	568.78
542.42	604.66	543.28	523.53	544.19	599.66	545.11	536.51
542.44	523.02	543.30	553.73	544.22	536.96	545.12	529.64
542.46	565.21	543.32	537.75	544.24	531.09	545.14	532.71
542.47	531.46	543.33	603.98	544.26	532.83	545.17	522.37
542.48	563.36	543.34	525.55	544.27	525.82	545.19	529.66
542.49	544.02	543.36	496.00	544.28	601.98	545.21	532.84
542.51	566.11	543.37	532.28	544.29	531.91	545.22	534.86
542.52	604.03	543.38	533.23	544.31	535.90	545.23	532.56
542.55	525.15	543.40	611.01	544.34	590.71	545.24	615.61
542.56	553.50	543.42	533.75	544.36	566.58	545.26	530.60
542.57	561.11	543.43	537.25	544.37	519.97	545.30	566.37
542.58	532.32	543.44	568.19	544.39	610.41	545.32	528.28
542.60	583.83	543.45	603.41	544.41	529.12	545.34	606.34
542.61	526.15	543.46	527.06	544.43	572.06	545.35	533.25
542.64	525.41	543.48	526.74	544.44	539.55	545.36	603.41
542.65	562.08	543.50	534.64	544.47	656.57	545.37	532.45
542.67	557.30	543.53	534.32	544.48	604.67	545.38	529.55
542.68	531.49	543.54	603.79	544.49	532.66	545.40	534.27
542.71	536.55	543.55	531.02	544.50	532.62	545.41	531.41
542.72	520.19	543.59	524.75	544.51	584.02	545.42	527.73
542.73	530.65	543.60	591.60	544.52	520.93	545.43	528.35
542.75	528.60	543.61	526.92	544.53	603.70	545.44	535.06
542.76	562.35	543.62	529.97	544.54	533.90	545.45	532.27
542.77	557.11	543.63	604.30	544.60	591.43	545.46	575.60
542.78	526.19	543.64	570.42	544.61	527.04	545.47	525.65
542.80	560.14	543.67	565.83	544.62	532.11	545.49	520.55
542.81	656.22	543.68	535.80	544.64	530.52	545.50	532.31
542.84	537.14	543.69	547.94	544.65	535.14	545.51	526.84
542.85	531.66	543.70	537.27	544.66	602.83	545.53	517.47
542.86	528.00	543.71	604.26	544.68	529.16	545.56	570.77
542.87	530.51	543.75	605.03	544.71	542.45	545.57	532.05
542.88	567.03	543.76	548.29	544.72	567.97	545.59	527.57
542.89	526.48	543.78	547.05	544.73	570.94	545.60	591.30
542.92	608.86	543.79	630.96	544.74	590.23	545.66	538.67
542.97	527.47	543.83	529.72	544.75	527.64	545.67	535.08
542.98	525.09	543.84	526.33	544.77	535.94	545.71	535.46
542.99	530.83	543.85	591.32	544.78	530.58	545.72	570.53

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
545.73	532.39	546.77	533.63	547.74	580.32	548.65	533.62
545.74	553.98	546.80	532.63	547.75	526.80	548.66	564.51
545.75	603.66	546.81	531.44	547.76	591.67	548.68	603.79
545.76	563.05	546.82	555.21	547.77	531.23	548.69	604.35
545.77	591.28	546.83	536.17	547.78	537.27	548.70	629.98
545.80	534.88	546.85	526.69	547.79	536.53	548.71	528.89
545.83	601.64	546.87	537.11	547.80	591.93	548.73	630.49
545.84	545.03	546.88	550.76	547.81	535.01	548.74	531.14
545.85	532.57	546.89	532.64	547.82	526.47	548.75	540.08
545.89	532.30	546.90	609.93	547.88	527.70	548.76	630.43
545.90	529.63	546.91	540.05	547.89	591.77	548.77	656.64
545.91	569.91	546.94	523.58	547.90	532.46	548.78	605.07
545.93	547.96	546.99	538.13	547.91	532.61	548.79	536.86
545.95	530.22	547.01	591.41	547.92	528.78	548.81	534.15
545.96	528.93	547.02	524.83	547.93	565.72	548.83	531.63
545.98	538.57	547.03	655.37	547.94	571.68	548.85	520.94
545.99	531.84	547.04	531.21	547.95	538.06	548.86	541.26
546.00	558.18	547.05	608.42	547.96	572.21	548.89	552.33
546.01	655.70	547.06	529.10	547.98	604.91	548.90	607.83
546.05	558.00	547.09	580.89	547.99	529.19	548.91	525.01
546.06	529.92	547.11	532.79	548.01	559.49	548.92	527.78
546.09	531.20	547.12	533.47	548.02	586.67	548.93	604.79
546.13	591.84	547.14	538.71	548.05	603.59	548.94	524.70
546.14	563.33	547.15	533.94	548.06	528.21	548.96	539.39
546.17	591.32	547.16	609.20	548.08	537.97	548.97	533.81
546.18	503.64	547.17	534.24	548.09	535.73	548.98	533.59
546.19	553.36	547.18	520.24	548.10	532.85	548.99	537.80
546.21	532.30	547.19	553.96	548.11	558.77	549.00	532.28
546.22	543.58	547.20	523.74	548.12	591.33	549.02	555.45
546.23	527.80	547.21	527.17	548.14	575.76	549.03	543.86
546.24	569.15	547.22	531.86	548.17	656.70	549.04	540.40
546.27	533.63	547.23	605.78	548.19	533.52	549.05	531.22
546.28	606.63	547.24	528.89	548.20	592.34	549.06	536.00
546.29	532.80	547.26	551.49	548.21	534.46	549.07	532.38
546.31	596.38	547.27	532.44	548.22	532.50	549.08	548.12
546.32	551.52	547.28	591.69	548.25	590.82	549.10	569.69
546.39	564.21	547.29	539.86	548.26	537.56	549.11	603.43
546.40	530.64	547.30	523.63	548.27	531.54	549.12	533.05
546.41	532.64	547.31	523.46	548.28	516.31	549.13	531.56
546.42	534.96	547.33	531.69	548.29	533.21	549.15	605.06
546.43	603.98	547.38	554.44	548.30	537.02	549.16	532.91
546.44	565.78	547.39	515.89	548.31	526.25	549.17	589.54
546.46	591.34	547.40	591.70	548.32	567.54	549.19	533.63
546.47	533.65	547.43	544.34	548.39	603.21	549.20	592.27
546.50	521.56	547.45	656.16	548.40	524.35	549.23	547.89
546.51	559.25	547.48	525.17	548.41	523.98	549.24	556.48
546.52	532.17	547.49	571.44	548.43	612.00	549.29	529.61
546.56	522.75	547.50	533.74	548.46	529.73	549.30	529.07
546.59	603.58	547.51	531.81	548.47	537.33	549.31	532.47
546.61	523.73	547.52	527.53	548.48	539.45	549.36	565.63
546.65	656.15	547.53	534.02	548.51	575.83	549.37	537.64
546.66	510.83	547.56	535.30	548.53	522.11	549.39	533.40
546.67	535.32	547.57	521.76	548.55	531.57	549.40	531.93
546.68	528.20	547.59	532.65	548.56	605.51	549.41	572.32
546.69	565.74	547.60	552.10	548.58	524.12	549.42	536.81
546.70	513.63	547.61	554.56	548.59	529.27	549.43	571.23
546.71	532.14	547.69	536.34	548.61	524.82	549.45	533.87
546.72	511.94	547.71	536.47	548.62	539.66	549.48	568.66
546.73	604.41	547.72	537.62	548.63	555.54	549.51	569.45
546.75	656.94	547.73	591.62	548.64	540.77	549.52	534.97

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
549.54	525.21	550.51	556.17	551.52	529.18	552.42	532.01
549.55	532.11	550.52	536.04	551.55	546.18	552.43	656.18
549.56	533.42	550.53	591.61	551.56	537.09	552.45	526.17
549.58	604.76	550.56	535.74	551.57	538.77	552.47	567.50
549.59	541.78	550.58	532.21	551.58	570.60	552.48	658.06
549.60	526.70	550.60	519.29	551.59	549.76	552.49	657.27
549.61	531.71	550.61	571.67	551.60	588.55	552.50	616.20
549.63	603.65	550.62	528.68	551.61	535.45	552.51	525.95
549.65	604.80	550.63	538.86	551.63	531.24	552.52	533.13
549.66	525.56	550.64	629.35	551.64	577.27	552.53	542.25
549.68	536.26	550.66	558.66	551.65	529.37	552.54	525.35
549.71	569.20	550.67	533.79	551.66	524.69	552.55	532.26
549.72	534.85	550.68	570.34	551.67	533.10	552.56	531.61
549.75	534.18	550.71	591.68	551.70	529.54	552.57	549.96
549.78	538.85	550.78	534.42	551.72	611.79	552.60	532.75
549.79	538.86	550.79	522.70	551.75	539.67	552.63	656.95
549.80	528.91	550.80	519.24	551.77	566.61	552.65	565.14
549.83	630.17	550.84	566.94	551.79	579.29	552.66	544.74
549.84	534.30	550.86	530.00	551.80	537.86	552.69	544.45
549.85	529.32	550.89	551.99	551.84	569.20	552.71	530.94
549.88	654.87	550.90	533.83	551.86	657.85	552.72	528.93
549.90	567.03	550.91	533.12	551.87	524.36	552.73	566.16
549.91	534.79	550.92	556.34	551.88	534.67	552.74	539.33
549.92	536.64	550.94	564.32	551.90	606.02	552.76	528.59
549.93	539.71	550.96	606.35	551.91	511.89	552.77	526.04
549.97	607.11	550.97	538.78	551.92	522.98	552.78	533.44
549.98	605.02	550.99	528.28	551.94	525.43	552.79	572.69
550.01	573.72	551.01	587.89	551.95	535.32	552.83	541.49
550.03	591.97	551.02	531.35	551.97	592.40	552.84	532.08
550.04	543.51	551.06	560.18	551.98	531.87	552.85	530.56
550.05	597.94	551.08	565.85	551.99	531.66	552.86	537.91
550.06	535.81	551.12	537.31	552.01	552.83	552.87	543.62
550.07	533.32	551.13	530.22	552.02	535.16	552.88	526.23
550.08	542.34	551.15	531.39	552.03	530.88	552.89	531.87
550.09	536.04	551.16	541.57	552.04	526.61	552.90	603.59
550.10	592.35	551.19	574.57	552.05	530.74	552.91	533.02
550.11	606.22	551.21	539.01	552.10	557.08	552.92	604.58
550.13	558.56	551.24	539.41	552.11	593.34	552.93	591.79
550.14	604.91	551.25	592.17	552.12	530.34	552.94	535.34
550.15	603.60	551.27	534.06	552.13	540.26	552.95	535.24
550.17	528.61	551.28	523.47	552.15	528.02	552.96	604.60
550.18	572.55	551.29	532.10	552.16	656.01	552.98	535.93
550.20	533.13	551.30	604.36	552.17	568.62	552.99	569.92
550.21	533.99	551.31	591.79	552.18	525.69	553.01	539.25
550.23	528.85	551.32	530.18	552.19	566.96	553.02	542.24
550.24	523.43	551.33	591.70	552.20	543.05	553.03	605.37
550.26	574.65	551.34	604.75	552.22	528.43	553.07	538.09
550.27	526.16	551.36	564.92	552.23	605.74	553.08	574.78
550.28	630.96	551.37	604.52	552.26	543.11	553.09	570.77
550.29	606.02	551.38	529.93	552.27	564.26	553.10	526.27
550.34	535.00	551.39	534.61	552.28	534.35	553.12	620.44
550.37	618.89	551.41	531.98	552.31	524.45	553.16	533.72
550.38	608.65	551.42	558.79	552.32	539.65	553.17	569.21
550.39	531.24	551.43	535.67	552.34	545.22	553.18	575.75
550.41	524.05	551.44	539.97	552.35	576.32	553.19	551.98
550.42	630.31	551.45	534.63	552.36	542.71	553.20	605.11
550.46	570.35	551.46	535.20	552.37	605.33	553.22	603.66
550.47	527.72	551.47	606.89	552.38	528.58	553.23	571.87
550.48	546.38	551.50	542.03	552.39	604.85	553.24	571.20
550.50	532.21	551.51	524.43	552.40	533.15	553.26	534.88



PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
553.28	604.83	554.32	538.23	555.31	532.20	556.18	567.65
553.30	541.11	554.33	655.83	555.33	607.31	556.19	526.51
553.31	528.90	554.35	534.84	555.34	603.89	556.22	540.32
553.32	534.88	554.36	656.67	555.38	528.87	556.23	533.15
553.33	535.15	554.37	538.58	555.39	574.64	556.26	535.85
553.34	534.56	554.41	618.11	555.40	534.70	556.27	611.33
553.35	532.11	554.44	566.62	555.43	605.74	556.35	522.50
553.36	538.21	554.45	577.56	555.44	591.97	556.38	607.00
553.38	532.42	554.48	605.46	555.45	544.15	556.41	543.48
553.40	535.34	554.49	571.64	555.46	570.80	556.42	533.20
553.42	533.77	554.52	534.51	555.47	540.02	556.45	551.69
553.46	528.80	554.55	579.15	555.49	518.58	556.46	537.47
553.48	603.34	554.58	539.76	555.50	570.03	556.50	538.25
553.50	529.51	554.59	540.82	555.51	545.32	556.52	575.11
553.53	657.50	554.60	630.99	555.52	535.21	556.53	571.17
553.54	570.03	554.61	570.56	555.53	657.26	556.55	534.36
553.55	541.09	554.62	591.44	555.54	600.27	556.57	530.22
553.56	547.88	554.63	575.96	555.56	529.00	556.61	527.95
553.57	544.48	554.66	545.83	555.57	536.53	556.62	571.63
553.58	591.82	554.67	571.62	555.58	535.32	556.63	620.22
553.62	535.89	554.68	657.59	555.60	604.40	556.64	574.53
553.63	602.98	554.69	570.57	555.61	535.43	556.67	581.71
553.66	528.72	554.71	605.37	555.62	531.43	556.69	619.70
553.67	558.82	554.72	542.15	555.63	535.87	556.70	603.90
553.69	521.17	554.73	514.49	555.64	529.91	556.71	540.33
553.70	575.41	554.74	536.33	555.65	632.36	556.72	592.82
553.71	574.71	554.75	572.90	555.66	591.67	556.73	607.40
553.72	535.35	554.76	529.25	555.67	553.41	556.75	543.52
553.75	531.61	554.77	591.52	555.68	529.04	556.77	526.60
553.76	575.79	554.79	565.42	555.69	595.29	556.78	618.33
553.81	604.18	554.80	527.55	555.71	526.13	556.79	537.84
553.82	592.24	554.82	604.83	555.73	536.84	556.81	530.15
553.83	525.87	554.83	546.07	555.74	578.93	556.82	540.03
553.84	573.74	554.84	528.61	555.75	545.73	556.83	537.52
553.85	533.02	554.88	548.99	555.76	554.05	556.84	537.15
553.87	544.14	554.94	535.24	555.77	534.23	556.85	548.04
553.88	547.27	554.95	536.87	555.78	603.73	556.86	537.58
553.89	523.46	554.96	525.80	555.82	568.37	556.87	599.23
553.90	534.56	554.97	544.14	555.84	542.07	556.88	518.65
553.95	586.84	554.98	592.17	555.85	573.31	556.89	583.91
553.96	572.93	555.01	591.74	555.86	545.20	556.90	605.55
553.99	539.66	555.02	537.19	555.87	538.99	556.93	583.05
554.00	532.47	555.04	574.23	555.88	532.39	556.94	576.53
554.01	536.90	555.06	537.18	555.89	614.48	556.95	592.21
554.02	541.09	555.07	605.73	555.90	532.65	556.96	570.20
554.04	527.86	555.08	527.94	555.91	532.25	556.98	570.57
554.05	604.32	555.10	532.17	555.93	549.56	556.99	656.55
554.07	536.17	555.12	508.69	555.95	531.28	557.00	534.26
554.08	577.43	555.13	656.67	555.98	585.87	557.02	596.00
554.12	533.11	555.16	559.99	555.99	504.20	557.05	574.36
554.13	549.52	555.19	577.05	556.00	534.19	557.06	529.18
554.14	530.85	555.20	605.60	556.01	568.53	557.07	536.58
554.15	557.99	555.21	547.37	556.02	616.78	557.08	527.24
554.16	537.21	555.23	550.48	556.05	613.73	557.10	531.39
554.19	524.99	555.24	532.43	556.08	630.45	557.13	533.50
554.27	538.33	555.25	656.53	556.09	531.17	557.14	538.68
554.28	567.76	555.26	567.51	556.10	542.21	557.16	530.48
554.29	602.78	555.27	538.24	556.13	530.22	557.17	657.44
554.30	535.87	555.28	580.72	556.14	605.84	557.18	604.38
554.31	606.15	555.29	526.07	556.17	544.72	557.20	569.81

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
557.22	560.22	558.13	537.18	559.27	543.03	560.32	538.13
557.23	657.24	558.14	527.85	559.29	574.32	560.34	539.11
557.24	592.41	558.15	657.48	559.31	535.06	560.35	535.49
557.26	577.81	558.16	535.87	559.32	551.07	560.38	539.77
557.28	604.74	558.17	544.19	559.33	584.08	560.39	606.01
557.29	659.49	558.19	605.89	559.34	538.56	560.40	586.86
557.31	604.96	558.20	532.88	559.35	540.07	560.41	605.89
557.33	536.43	558.22	607.01	559.37	543.00	560.43	605.63
557.34	537.41	558.25	535.72	559.38	531.13	560.45	543.41
557.36	534.81	558.26	546.56	559.39	537.86	560.46	541.87
557.37	578.23	558.28	536.54	559.40	541.37	560.47	617.43
557.39	581.40	558.31	605.96	559.44	611.15	560.48	630.71
557.42	530.77	558.32	550.56	559.49	538.31	560.49	540.13
557.43	656.48	558.40	548.02	559.50	578.29	560.50	658.19
557.44	537.72	558.41	602.96	559.51	631.66	560.53	535.49
557.46	577.23	558.45	577.70	559.52	533.92	560.54	539.30
557.48	656.76	558.46	607.51	559.53	605.66	560.55	605.00
557.50	546.69	558.48	541.11	559.55	606.04	560.56	538.14
557.51	543.63	558.50	591.79	559.56	538.83	560.57	604.97
557.52	621.29	558.52	631.96	559.61	539.55	560.59	539.08
557.53	550.04	558.54	542.14	559.63	537.15	560.60	569.42
557.55	656.62	558.55	538.36	559.64	579.42	560.62	533.98
557.56	520.75	558.56	530.14	559.66	606.02	560.70	547.49
557.59	613.17	558.57	543.74	559.72	572.62	560.72	515.89
557.60	606.10	558.58	569.30	559.75	659.53	560.73	537.97
557.61	565.44	558.60	532.98	559.78	538.80	560.74	539.62
557.62	614.48	558.61	539.37	559.79	536.26	560.76	537.17
557.63	656.31	558.62	524.74	559.81	591.49	560.77	540.64
557.64	538.30	558.64	573.02	559.82	531.14	560.81	557.41
557.65	569.23	558.65	537.89	559.83	617.16	560.83	592.56
557.66	575.68	558.66	530.76	559.84	630.36	560.84	547.73
557.67	575.19	558.68	546.55	559.85	538.04	560.85	592.27
557.70	547.97	558.73	630.46	559.86	576.70	560.86	526.37
557.71	571.32	558.74	607.01	559.87	607.10	560.87	540.78
557.72	530.72	558.75	538.42	559.89	592.77	560.89	535.07
557.73	535.67	558.77	533.34	559.91	542.99	560.90	566.64
557.74	530.53	558.78	631.22	559.93	566.33	560.92	539.18
557.75	592.37	558.81	568.01	559.94	535.93	560.93	538.01
557.77	530.07	558.82	560.42	559.95	657.45	560.95	537.46
557.78	537.49	558.86	536.42	559.96	538.40	560.97	524.45
557.81	534.79	558.88	593.17	559.98	546.85	560.98	541.41
557.84	538.88	558.89	541.33	559.99	578.64	560.99	570.45
557.87	606.46	558.90	538.66	560.04	582.49	561.02	539.09
557.89	541.85	558.95	541.81	560.05	594.49	561.03	532.64
557.90	542.94	558.97	577.44	560.06	579.95	561.06	532.76
557.91	577.04	558.99	604.90	560.08	657.58	561.07	543.16
557.92	577.60	559.00	534.73	560.09	580.10	561.08	521.91
557.93	537.44	559.02	583.01	560.11	551.29	561.12	606.13
557.94	575.05	559.07	536.29	560.12	537.94	561.14	605.89
557.96	537.27	559.08	569.35	560.16	540.76	561.15	592.62
557.99	533.79	559.09	524.73	560.17	536.73	561.16	537.61
558.00	539.57	559.10	555.01	560.18	535.61	561.18	656.55
558.01	606.35	559.12	623.41	560.20	603.78	561.22	568.30
558.02	583.58	559.18	591.20	560.21	625.33	561.23	594.06
558.03	583.36	559.19	537.29	560.23	539.75	561.24	607.16
558.04	573.42	559.20	534.42	560.24	536.74	561.27	541.39
558.05	535.87	559.21	605.70	560.25	593.05	561.28	536.91
558.06	657.86	559.23	605.44	560.28	571.81	561.30	548.27
558.08	558.98	559.24	536.32	560.29	544.27	561.32	538.44
558.09	536.06	559.26	538.03	560.30	581.18	561.33	543.57

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
561.34	535.68	562.38	543.93	563.39	537.58	564.28	543.45
561.36	538.94	562.39	592.33	563.40	545.70	564.29	539.27
561.38	534.54	562.43	537.63	563.41	539.83	564.30	577.79
561.40	539.22	562.45	605.97	563.45	562.91	564.33	535.38
561.42	526.26	562.46	657.25	563.47	518.72	564.35	547.31
561.44	605.71	562.49	575.59	563.48	576.60	564.36	657.97
561.45	604.60	562.50	533.51	563.50	658.10	564.37	538.99
561.46	537.29	562.51	563.03	563.51	580.90	564.38	538.44
561.47	552.46	562.52	615.01	563.52	558.83	564.40	550.34
561.48	574.84	562.55	589.63	563.53	539.59	564.42	592.43
561.56	608.25	562.56	541.87	563.55	530.15	564.44	538.51
561.57	593.23	562.57	594.68	563.56	656.55	564.46	540.06
561.59	606.49	562.58	531.51	563.60	573.88	564.47	553.35
561.60	538.28	562.60	618.25	563.63	581.06	564.50	538.42
561.62	540.98	562.61	618.82	563.65	566.19	564.51	608.00
561.64	538.02	562.62	544.35	563.66	603.81	564.53	656.46
561.65	540.56	562.65	550.58	563.67	537.58	564.54	534.62
561.66	552.62	562.66	574.66	563.69	548.95	564.55	529.82
561.70	548.43	562.67	568.94	563.70	583.72	564.56	605.83
561.74	631.34	562.70	626.10	563.71	592.82	564.57	631.36
561.76	539.81	562.73	544.92	563.73	576.63	564.59	581.51
561.77	606.92	562.74	607.19	563.74	530.52	564.60	535.87
561.80	542.52	562.76	605.58	563.76	540.26	564.61	573.34
561.81	546.02	562.78	547.66	563.77	618.69	564.64	541.15
561.82	566.77	562.79	606.66	563.78	540.50	564.66	608.03
561.85	559.37	562.82	605.14	563.79	565.61	564.68	592.56
561.86	565.74	562.84	631.84	563.80	540.00	564.69	539.06
561.87	547.17	562.85	558.81	563.81	538.87	564.70	621.87
561.88	581.20	562.87	582.34	563.82	543.74	564.71	539.06
561.90	576.50	562.89	536.93	563.83	544.69	564.72	555.50
561.91	592.67	562.90	631.01	563.84	605.19	564.74	584.41
561.93	552.51	562.92	605.93	563.85	530.83	564.75	537.52
561.95	532.93	562.99	537.28	563.86	544.65	564.77	533.60
561.96	624.21	563.00	608.05	563.87	537.86	564.78	540.64
561.97	603.94	563.01	542.08	563.89	543.70	564.80	606.87
561.98	540.04	563.03	608.31	563.91	538.19	564.81	549.53
561.99	534.28	563.04	534.88	563.92	530.59	564.82	579.75
562.01	605.23	563.05	631.92	563.93	604.66	564.83	543.72
562.04	607.17	563.06	552.18	563.94	534.70	564.84	551.89
562.07	542.22	563.07	581.97	563.95	575.15	564.85	593.03
562.08	614.66	563.09	596.99	563.96	531.42	564.86	542.62
562.09	554.27	563.10	549.16	563.98	549.81	564.89	540.89
562.10	591.85	563.11	568.70	563.99	540.08	564.90	605.89
562.12	548.77	563.12	542.31	564.01	543.57	564.96	540.04
562.13	541.30	563.13	541.30	564.02	560.56	564.97	550.27
562.17	621.24	563.15	586.09	564.04	537.80	564.98	549.77
562.19	544.85	563.16	587.49	564.05	536.33	564.99	507.44
562.21	590.75	563.18	604.56	564.08	548.73	565.01	540.37
562.22	631.67	563.21	631.43	564.09	526.41	565.02	606.39
562.23	599.25	563.25	606.48	564.10	534.76	565.03	542.02
562.24	532.26	563.26	540.37	564.13	577.09	565.04	592.73
562.25	539.69	563.28	544.37	564.14	597.53	565.06	537.51
562.27	542.14	563.29	540.07	564.15	541.74	565.07	603.93
562.28	604.76	563.31	532.88	564.18	534.51	565.08	606.27
562.32	552.52	563.32	577.37	564.19	527.97	565.10	537.92
562.33	550.68	563.33	533.81	564.20	564.34	565.11	546.58
562.34	544.87	563.35	568.47	564.21	606.02	565.12	581.26
562.35	539.40	563.36	540.32	564.22	540.58	565.13	540.88
562.36	657.57	563.37	567.02	564.24	550.10	565.14	550.20
562.37	604.60	563.38	548.31	564.26	565.08	565.18	613.45

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
565.19	595.91	566.08	540.39	567.12	548.64	568.16	541.56
565.20	608.01	566.09	574.84	567.14	539.01	568.17	576.85
565.22	576.37	566.10	578.59	567.15	549.74	568.19	604.35
565.24	538.53	566.11	538.83	567.18	604.56	568.21	578.76
565.25	562.40	566.13	546.48	567.19	537.50	568.22	551.72
565.26	536.27	566.14	540.33	567.20	563.36	568.24	657.21
565.28	606.80	566.16	546.43	567.23	630.11	568.25	531.03
565.29	538.96	566.17	558.35	567.24	657.19	568.26	624.57
565.31	540.94	566.19	564.31	567.27	547.70	568.27	657.01
565.34	536.89	566.20	605.87	567.28	657.81	568.30	541.57
565.35	532.62	566.21	592.99	567.31	552.74	568.31	605.28
565.36	543.42	566.24	575.45	567.34	534.12	568.33	658.48
565.37	541.00	566.26	657.77	567.38	541.51	568.34	540.80
565.38	572.89	566.28	538.66	567.39	542.24	568.35	541.57
565.40	544.46	566.29	606.70	567.40	538.42	568.38	615.85
565.41	538.55	566.31	549.81	567.41	535.83	568.39	612.63
565.42	584.07	566.35	592.32	567.42	537.37	568.40	658.03
565.44	540.51	566.37	593.09	567.43	550.09	568.41	543.24
565.47	582.60	566.41	633.37	567.45	575.09	568.42	592.83
565.49	536.67	566.47	552.21	567.47	548.04	568.43	544.83
565.51	623.31	566.51	658.47	567.48	579.60	568.45	577.73
565.53	587.49	566.53	537.64	567.50	534.68	568.46	559.10
565.54	539.16	566.54	537.74	567.53	537.71	568.47	545.24
565.55	529.07	566.55	571.60	567.54	658.05	568.49	593.13
565.56	581.77	566.56	584.81	567.56	540.37	568.50	542.87
565.58	538.71	566.59	592.80	567.57	537.53	568.52	592.91
565.61	549.35	566.60	550.76	567.58	546.38	568.53	543.13
565.62	540.14	566.62	544.16	567.59	592.52	568.55	631.08
565.63	539.72	566.63	607.95	567.61	535.19	568.56	631.17
565.65	536.83	566.64	624.44	567.65	581.73	568.58	607.14
565.66	613.13	566.66	542.98	567.66	592.69	568.60	592.86
565.67	540.18	566.70	632.68	567.67	539.37	568.61	605.46
565.69	539.30	566.71	579.79	567.68	606.51	568.62	543.15
565.70	592.28	566.72	617.95	567.69	558.40	568.63	659.16
565.71	585.48	566.73	658.04	567.70	606.65	568.64	658.87
565.72	604.67	566.76	545.75	567.71	631.31	568.66	582.20
565.73	533.83	566.79	592.47	567.72	539.14	568.67	587.83
565.74	547.99	566.80	575.76	567.73	543.09	568.68	547.05
565.76	552.95	566.82	548.96	567.74	575.99	568.69	578.77
565.77	572.43	566.83	659.22	567.77	587.47	568.71	542.43
565.78	606.21	566.84	574.11	567.78	522.85	568.72	561.24
565.79	521.49	566.85	580.97	567.79	606.57	568.75	606.45
565.80	553.16	566.88	531.98	567.81	540.97	568.76	537.56
565.81	542.14	566.89	597.42	567.82	584.53	568.78	542.59
565.82	579.17	566.90	606.11	567.83	659.81	568.81	560.19
565.83	586.70	566.91	546.29	567.85	537.37	568.83	625.83
565.84	539.50	566.92	539.32	567.86	550.08	568.84	578.55
565.90	539.30	566.95	627.79	567.87	548.55	568.85	537.86
565.92	549.48	566.96	572.26	567.89	538.20	568.86	541.72
565.93	599.00	566.98	583.10	567.91	582.78	568.87	546.52
565.94	583.61	566.99	549.17	567.92	553.64	568.88	537.24
565.96	658.09	567.00	608.34	567.93	574.75	568.90	544.58
565.97	550.26	567.01	545.59	567.95	534.42	568.93	659.95
565.98	657.85	567.04	567.81	567.97	540.22	568.95	546.76
565.99	540.33	567.05	658.49	567.98	536.90	568.96	548.56
566.01	536.66	567.06	629.42	567.99	537.91	568.97	529.02
566.04	537.21	567.07	546.60	568.08	584.16	569.00	554.49
566.05	540.55	567.08	628.19	568.11	632.00	569.02	536.63
566.06	538.95	567.09	590.90	568.13	541.50	569.04	552.08
566.07	546.98	567.11	620.33	568.14	547.66	569.06	606.76

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
569.08	536.53	570.10	541.66	571.11	541.88	572.26	593.87
569.09	542.55	570.12	542.15	571.12	606.73	572.27	544.54
569.10	604.27	570.13	541.51	571.14	545.10	572.28	538.89
569.12	544.24	570.14	539.19	571.15	539.78	572.29	526.16
569.13	538.54	570.16	534.52	571.16	632.68	572.30	555.36
569.14	580.11	570.17	553.96	571.21	538.49	572.31	530.95
569.18	538.51	570.20	622.25	571.22	542.14	572.36	538.20
569.20	531.58	570.22	540.78	571.24	536.95	572.37	580.26
569.21	582.86	570.25	607.48	571.27	553.11	572.38	600.43
569.22	534.12	570.31	538.36	571.28	545.08	572.39	563.19
569.24	590.02	570.34	536.59	571.29	658.38	572.41	606.55
569.27	659.65	570.35	539.36	571.30	539.12	572.43	587.04
569.30	539.55	570.36	607.39	571.31	606.27	572.44	616.13
569.32	529.96	570.39	609.06	571.33	626.13	572.48	633.71
569.33	548.08	570.40	546.73	571.35	559.87	572.49	538.05
569.37	623.61	570.41	551.95	571.37	592.88	572.50	550.63
569.39	531.62	570.43	533.35	571.41	553.92	572.51	581.52
569.40	550.83	570.47	552.85	571.48	627.39	572.52	657.14
569.41	552.38	570.49	550.62	571.49	587.89	572.53	547.00
569.42	542.70	570.51	606.28	571.50	540.37	572.54	550.91
569.43	538.00	570.52	572.41	571.51	540.91	572.55	548.34
569.45	541.35	570.53	538.47	571.53	543.20	572.56	538.53
569.49	658.28	570.55	562.47	571.56	575.50	572.60	606.83
569.50	535.71	570.56	628.98	571.57	553.77	572.61	584.39
569.52	592.54	570.60	545.20	571.59	607.09	572.62	606.57
569.53	534.70	570.62	541.36	571.60	533.70	572.64	590.86
569.55	593.50	570.63	533.41	571.61	554.86	572.66	543.48
569.56	538.33	570.64	542.11	571.62	543.51	572.68	582.51
569.57	538.54	570.66	583.61	571.63	541.25	572.69	543.16
569.58	583.70	570.67	537.40	571.66	581.45	572.70	582.83
569.61	526.07	570.68	630.10	571.67	632.66	572.72	589.73
569.63	620.07	570.69	632.31	571.68	543.93	572.74	593.73
569.64	608.60	570.70	592.90	571.69	541.72	572.76	632.28
569.65	553.35	570.71	593.11	571.70	587.49	572.77	542.75
569.66	554.72	570.72	530.16	571.74	623.44	572.78	530.20
569.67	548.41	570.74	549.31	571.76	566.02	572.79	657.63
569.71	657.11	570.75	540.18	571.77	534.04	572.82	543.77
569.72	610.89	570.77	547.18	571.80	593.15	572.83	536.37
569.73	598.21	570.78	542.53	571.81	659.11	572.84	553.87
569.74	545.48	570.82	592.13	571.83	559.25	572.88	540.65
569.76	548.34	570.83	540.75	571.84	592.50	572.90	573.29
569.77	592.67	570.84	578.78	571.87	540.75	572.92	606.65
569.81	531.95	570.85	536.96	571.88	540.47	572.93	567.80
569.82	547.43	570.88	608.14	571.89	577.61	572.94	607.24
569.85	537.84	570.89	584.51	571.90	632.71	572.96	571.21
569.86	556.41	570.91	562.47	571.94	550.52	572.98	538.74
569.87	534.46	570.94	658.29	571.95	558.17	572.99	620.60
569.88	608.18	570.95	540.63	571.97	587.89	573.00	660.06
569.90	563.59	570.96	554.45	571.99	586.77	573.01	534.49
569.92	538.30	570.97	541.54	572.01	632.47	573.02	593.83
569.93	541.51	570.98	558.29	572.02	532.60	573.03	538.98
569.94	535.83	570.99	559.54	572.08	543.78	573.04	587.72
569.95	585.35	571.00	608.33	572.11	566.73	573.06	607.17
569.98	581.40	571.01	548.49	572.12	586.33	573.08	548.76
570.02	546.87	571.03	580.33	572.16	549.79	573.12	589.65
570.03	656.35	571.04	577.46	572.17	565.22	573.14	546.16
570.04	628.54	571.06	542.82	572.19	569.48	573.16	543.41
570.05	541.26	571.08	596.70	572.21	561.54	573.20	585.48
570.06	608.64	571.09	538.45	572.22	553.55	573.21	543.34
570.09	542.40	571.10	567.22	572.23	585.31	573.22	542.60

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
573.24	547.36	574.34	543.85	575.37	605.93	576.33	544.77
573.28	541.53	574.35	535.88	575.40	536.66	576.39	607.00
573.30	548.49	574.36	586.51	575.43	536.83	576.40	607.86
573.31	600.89	574.38	528.98	575.44	541.75	576.41	583.25
573.32	590.66	574.40	544.48	575.45	559.42	576.42	581.75
573.33	545.69	574.41	549.86	575.47	557.16	576.44	587.49
573.38	627.57	574.42	585.68	575.48	538.63	576.45	607.16
573.39	606.07	574.44	560.11	575.49	541.17	576.46	563.66
573.41	573.38	574.45	535.09	575.50	606.43	576.49	607.84
573.42	547.27	574.46	608.15	575.51	537.33	576.51	632.32
573.44	547.53	574.48	543.32	575.54	622.20	576.53	587.67
573.45	543.55	574.50	551.07	575.55	593.35	576.54	551.70
573.46	571.67	574.51	537.06	575.57	549.78	576.58	539.00
573.47	548.94	574.52	605.91	575.58	549.27	576.61	607.94
573.48	540.37	574.53	593.27	575.61	625.61	576.62	537.14
573.51	570.27	574.54	633.58	575.62	588.90	576.64	544.26
573.52	547.27	574.58	659.05	575.63	540.49	576.70	598.96
573.53	586.52	574.60	585.59	575.64	606.22	576.71	631.92
573.54	542.67	574.61	609.39	575.65	560.23	576.74	555.69
573.57	594.42	574.62	540.15	575.66	539.22	576.76	554.43
573.59	534.18	574.64	589.58	575.67	540.23	576.79	593.27
573.60	560.16	574.67	539.60	575.68	543.25	576.80	588.11
573.63	541.81	574.69	545.93	575.69	541.86	576.81	596.75
573.68	557.35	574.71	589.39	575.70	577.96	576.84	659.34
573.71	584.11	574.75	555.19	575.71	588.04	576.85	608.59
573.72	540.53	574.76	575.82	575.72	556.76	576.91	525.77
573.75	658.42	574.77	539.17	575.73	560.00	576.92	578.30
573.76	542.85	574.78	552.58	575.74	584.00	576.95	550.74
573.80	582.97	574.79	564.89	575.76	544.38	576.96	536.87
573.82	625.71	574.81	609.23	575.77	543.97	576.97	621.08
573.83	544.00	574.83	552.03	575.78	597.49	577.00	579.32
573.88	658.00	574.84	584.24	575.80	552.19	577.01	556.54
573.90	536.17	574.86	564.12	575.81	540.48	577.03	602.71
573.91	537.34	574.87	607.31	575.82	588.06	577.04	567.82
573.92	608.86	574.89	547.52	575.83	589.43	577.09	552.11
573.95	546.38	574.91	554.80	575.84	608.99	577.10	559.14
573.96	631.26	574.92	543.86	575.85	543.67	577.11	620.02
573.97	593.27	574.93	610.85	575.86	565.34	577.14	539.07
573.98	608.63	574.97	556.38	575.88	569.55	577.15	547.01
574.00	588.33	574.98	590.98	575.89	592.95	577.17	578.55
574.03	543.74	574.99	605.68	575.90	592.75	577.18	536.34
574.04	584.32	575.00	605.87	575.92	549.41	577.19	534.51
574.05	607.23	575.04	542.76	575.93	658.24	577.21	537.41
574.06	605.61	575.07	633.66	575.94	548.24	577.22	565.54
574.07	538.45	575.08	542.81	575.95	539.94	577.23	538.16
574.08	607.55	575.11	592.91	575.97	590.18	577.27	631.92
574.10	543.09	575.14	540.92	576.03	592.90	577.29	544.24
574.11	606.12	575.15	535.59	576.06	565.54	577.30	585.98
574.13	585.07	575.16	620.13	576.08	631.87	577.35	552.80
574.15	627.38	575.17	554.37	576.09	556.36	577.39	628.74
574.16	578.51	575.18	541.96	576.11	617.02	577.41	556.44
574.18	540.85	575.19	543.40	576.14	597.40	577.42	536.49
574.19	610.52	575.20	593.28	576.16	585.96	577.43	591.09
574.20	657.58	575.22	608.67	576.17	547.53	577.45	594.30
574.21	627.08	575.24	540.08	576.18	593.40	577.46	544.07
574.22	554.31	575.25	593.06	576.19	599.20	577.47	551.19
574.24	559.19	575.26	583.33	576.22	627.93	577.49	541.63
574.25	603.97	575.29	555.88	576.23	609.13	577.50	538.01
574.29	548.77	575.32	592.71	576.25	531.85	577.51	658.60
574.33	533.66	575.36	656.98	576.30	585.96	577.52	634.47

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
577.53	540.91	578.60	591.38	579.56	637.89	580.63	550.12
577.56	607.44	578.61	534.47	579.58	532.86	580.64	556.06
577.57	550.73	578.63	537.38	579.59	634.69	580.66	546.91
577.58	605.98	578.64	596.13	579.60	549.39	580.67	631.80
577.61	549.83	578.65	593.09	579.61	539.86	580.68	590.41
577.62	547.27	578.67	607.78	579.66	537.73	580.70	545.71
577.65	541.71	578.68	636.92	579.67	546.94	580.71	633.10
577.69	536.26	578.70	593.97	579.69	559.20	580.72	595.27
577.72	537.52	578.75	591.57	579.71	633.11	580.77	544.28
577.73	591.01	578.76	606.52	579.74	659.40	580.81	544.25
577.75	593.38	578.78	559.58	579.78	559.92	580.82	657.80
577.78	541.16	578.79	550.58	579.79	551.87	580.88	536.82
577.79	575.51	578.80	533.49	579.80	607.38	580.89	598.82
577.80	538.21	578.81	558.41	579.81	550.16	580.90	572.25
577.81	559.62	578.82	535.83	579.82	575.08	580.91	593.65
577.82	542.72	578.83	608.17	579.84	535.12	580.93	594.18
577.85	541.84	578.84	541.81	579.85	596.95	580.94	542.83
577.89	544.92	578.87	593.24	579.87	571.36	580.96	594.81
577.93	609.69	578.88	608.75	579.89	530.46	580.99	559.19
577.94	560.87	578.89	588.48	579.91	581.86	581.00	660.51
577.96	542.72	578.90	658.91	579.92	541.27	581.01	593.41
577.98	599.29	578.91	622.67	579.94	576.30	581.03	549.49
578.03	588.15	578.93	592.09	579.95	541.24	581.06	567.96
578.04	544.15	578.94	560.63	579.96	588.43	581.07	571.61
578.05	592.58	578.95	540.66	579.97	541.31	581.08	657.26
578.06	543.50	578.96	540.44	579.98	545.47	581.10	658.53
578.07	592.97	578.97	558.42	579.99	547.05	581.15	593.65
578.08	582.91	578.98	571.60	580.00	543.00	581.17	540.37
578.09	559.10	579.02	608.07	580.01	585.10	581.19	554.88
578.10	543.95	579.03	625.80	580.02	590.67	581.21	608.97
578.11	574.49	579.05	556.25	580.03	589.47	581.22	557.48
578.12	623.02	579.06	539.95	580.04	534.84	581.23	633.20
578.13	545.75	579.08	594.47	580.05	556.84	581.24	589.73
578.14	598.89	579.09	593.35	580.06	536.19	581.26	546.14
578.15	569.70	579.10	558.31	580.07	543.23	581.27	541.00
578.17	558.79	579.13	586.58	580.08	588.58	581.28	609.18
578.20	543.25	579.14	598.84	580.11	537.82	581.30	607.86
578.22	592.09	579.15	548.32	580.12	633.28	581.32	539.75
578.23	535.99	579.16	607.11	580.13	538.92	581.38	606.51
578.24	592.89	579.17	545.21	580.14	586.62	581.40	660.21
578.28	552.04	579.20	606.76	580.15	560.65	581.42	552.62
578.29	580.17	579.21	540.70	580.16	593.40	581.45	545.35
578.32	604.80	579.22	549.28	580.20	554.17	581.46	595.34
578.33	540.17	579.25	543.03	580.22	580.78	581.49	544.16
578.34	608.24	579.26	538.02	580.23	558.81	581.50	586.71
578.36	549.97	579.29	607.46	580.24	533.59	581.51	542.27
578.37	517.54	579.30	637.41	580.32	539.30	581.52	588.92
578.41	541.11	579.32	543.41	580.36	590.57	581.53	592.48
578.44	547.54	579.34	556.25	580.38	544.93	581.54	536.56
578.46	593.93	579.36	540.00	580.40	593.51	581.55	594.18
578.47	543.21	579.38	564.17	580.44	634.44	581.56	543.40
578.48	546.71	579.41	608.87	580.45	550.72	581.57	560.13
578.50	579.95	579.42	543.01	580.46	545.11	581.62	605.68
578.51	585.87	579.43	539.56	580.49	545.24	581.64	600.96
578.52	544.65	579.44	544.33	580.51	545.74	581.65	593.78
578.53	539.01	579.48	594.20	580.54	573.95	581.66	596.12
578.54	608.75	579.49	554.73	580.56	547.24	581.69	557.98
578.56	588.81	579.50	635.50	580.59	589.52	581.71	555.54
578.57	540.04	579.52	543.71	580.61	608.04	581.72	545.94
578.59	551.21	579.53	562.21	580.62	557.65	581.73	594.82

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
581.74	558.78	582.84	570.65	583.92	658.17	585.01	590.70
581.76	555.84	582.86	539.72	583.93	581.07	585.04	595.46
581.77	607.11	582.87	658.82	583.94	552.96	585.06	639.67
581.78	550.43	582.88	580.03	583.95	596.09	585.08	634.25
581.80	593.74	582.89	608.68	584.01	609.27	585.09	543.26
581.82	550.63	582.90	541.37	584.03	593.59	585.11	547.16
581.83	634.91	582.91	633.48	584.04	547.68	585.12	594.21
581.85	608.10	582.95	554.50	584.05	546.76	585.13	593.79
581.86	559.81	582.96	543.04	584.07	561.66	585.14	588.43
581.87	595.70	583.02	537.15	584.08	593.67	585.20	540.86
581.93	537.55	583.05	546.94	584.11	543.74	585.22	544.92
581.94	543.97	583.06	589.85	584.12	637.16	585.23	551.27
581.97	633.85	583.07	607.63	584.13	589.22	585.24	636.77
581.98	556.75	583.08	552.46	584.15	539.01	585.27	562.09
582.00	565.64	583.09	546.24	584.16	580.73	585.28	547.07
582.01	536.32	583.10	606.92	584.18	575.63	585.32	544.31
582.04	543.47	583.11	557.32	584.19	566.18	585.33	565.32
582.06	607.76	583.12	540.63	584.20	589.36	585.34	543.42
582.07	658.63	583.13	547.41	584.22	543.56	585.36	541.49
582.08	632.81	583.14	541.84	584.23	558.52	585.39	539.04
582.09	539.11	583.15	540.80	584.25	633.86	585.40	570.73
582.10	546.62	583.16	594.86	584.26	534.75	585.43	534.33
582.13	555.68	583.21	636.36	584.28	571.50	585.45	565.07
582.14	620.56	583.24	546.80	584.32	552.20	585.46	633.10
582.15	606.66	583.26	546.00	584.34	628.12	585.48	563.39
582.19	546.22	583.27	592.98	584.35	551.19	585.51	545.91
582.20	594.09	583.30	546.62	584.42	633.41	585.54	607.77
582.22	558.90	583.32	594.33	584.44	658.25	585.57	546.97
582.23	593.89	583.33	536.83	584.45	633.87	585.60	540.12
582.26	631.82	583.34	542.30	584.46	541.21	585.61	603.74
582.27	554.44	583.37	659.76	584.48	564.48	585.63	542.18
582.32	538.17	583.38	543.82	584.51	536.23	585.64	610.26
582.36	548.95	583.41	542.27	584.54	596.53	585.65	534.84
582.37	535.13	583.44	582.15	584.55	561.29	585.67	590.19
582.38	595.85	583.45	593.50	584.56	546.31	585.68	602.29
582.39	588.61	583.46	590.62	584.58	607.66	585.72	635.63
582.44	543.41	583.47	589.02	584.59	543.66	585.73	535.43
582.46	592.11	583.48	636.69	584.60	537.62	585.74	546.53
582.47	626.05	583.50	555.35	584.64	593.98	585.77	609.23
582.48	544.62	583.51	546.88	584.65	590.20	585.81	590.46
582.49	559.76	583.53	561.55	584.67	633.50	585.83	607.80
582.50	536.86	583.54	546.27	584.68	658.19	585.84	547.12
582.51	543.84	583.55	607.79	584.69	562.95	585.85	609.35
582.52	585.72	583.59	549.40	584.72	605.28	585.88	590.12
582.54	633.44	583.60	593.42	584.74	591.33	585.90	569.70
582.55	586.95	583.62	549.44	584.75	657.18	585.92	543.83
582.56	572.44	583.65	593.08	584.78	611.88	585.95	627.99
582.58	589.56	583.66	560.99	584.79	587.59	585.96	607.73
582.60	587.28	583.67	591.75	584.81	556.47	585.97	594.59
582.62	608.83	583.68	590.31	584.82	541.58	585.98	540.32
582.64	583.58	583.70	590.51	584.83	547.38	586.00	542.81
582.65	634.43	583.71	577.93	584.84	610.03	586.01	545.14
582.67	594.26	583.72	556.35	584.85	542.13	586.02	540.89
582.68	587.14	583.76	608.92	584.86	542.40	586.03	593.46
582.72	536.35	583.78	608.46	584.90	596.13	586.04	593.58
582.74	659.88	583.79	589.41	584.92	552.85	586.05	599.30
582.75	539.34	583.81	546.94	584.94	636.17	586.07	607.03
582.76	583.28	583.87	545.15	584.96	631.72	586.08	589.10
582.77	543.52	583.88	561.61	584.97	610.04	586.09	545.31
582.78	607.23	583.91	543.65	584.99	595.52	586.11	636.87



PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
586.12	576.67	587.49	599.63	588.42	591.74	589.63	639.73
586.13	598.39	587.51	574.46	588.44	586.97	589.64	552.01
586.14	559.96	587.52	539.86	588.45	609.51	589.65	568.76
586.17	599.56	587.53	548.10	588.46	547.36	589.67	593.26
586.19	609.68	587.54	609.57	588.48	547.58	589.69	617.75
586.20	634.56	587.55	593.61	588.50	607.45	589.70	660.20
586.22	555.14	587.60	661.07	588.55	602.96	589.74	594.25
586.23	589.70	587.61	552.19	588.57	565.84	589.75	600.81
586.25	593.78	587.62	550.69	588.59	583.40	589.78	659.67
586.27	610.81	587.63	565.28	588.63	594.20	589.79	637.92
586.30	586.09	587.66	661.44	588.64	594.77	589.80	593.38
586.33	588.22	587.68	564.39	588.66	593.77	589.81	633.66
586.35	633.71	587.71	591.76	588.67	592.39	589.82	638.79
586.36	659.96	587.72	564.76	588.69	633.40	589.83	634.49
586.38	551.59	587.73	606.87	588.71	593.92	589.85	608.63
586.40	568.28	587.74	608.72	588.72	540.00	589.86	560.29
586.53	632.19	587.75	548.08	588.76	594.74	589.88	595.47
586.54	544.30	587.77	593.14	588.77	599.50	589.89	600.01
586.55	634.23	587.81	608.35	588.78	543.49	589.91	606.11
586.58	633.17	587.82	547.98	588.79	648.95	589.92	598.58
586.59	538.82	587.83	562.96	588.80	661.03	589.94	608.67
586.62	608.16	587.84	563.68	588.81	552.37	589.97	624.94
586.66	591.89	587.89	562.94	588.84	661.37	589.98	549.39
586.68	562.85	587.90	594.58	588.86	609.28	590.02	601.30
586.70	641.41	587.91	590.63	588.90	540.81	590.03	570.01
586.71	547.03	587.93	603.94	588.91	570.15	590.05	602.78
586.73	609.98	587.95	584.49	588.93	607.58	590.06	594.49
586.74	541.87	587.97	626.21	588.96	573.43	590.09	596.57
586.76	580.44	588.00	632.03	588.97	548.28	590.10	610.21
586.77	633.53	588.04	596.74	588.99	608.10	590.11	560.93
586.81	593.93	588.05	659.02	589.01	550.06	590.13	580.61
586.82	550.93	588.06	547.22	589.02	619.86	590.14	548.08
586.85	658.26	588.07	546.25	589.04	552.06	590.16	593.08
586.87	541.43	588.08	547.65	589.05	607.83	590.20	593.00
586.88	593.61	588.09	548.33	589.06	562.54	590.21	541.82
586.89	543.87	588.10	608.59	589.09	592.55	590.22	541.04
586.90	625.92	588.11	547.84	589.11	543.38	590.23	572.68
586.91	540.52	588.13	609.50	589.12	563.50	590.25	546.37
586.92	562.87	588.14	547.68	589.15	633.98	590.26	556.20
586.94	598.89	588.15	545.86	589.16	544.26	590.27	593.39
586.95	660.74	588.17	661.08	589.20	580.34	590.29	589.55
586.97	608.48	588.18	593.13	589.21	606.61	590.30	607.72
587.01	601.42	588.20	609.00	589.23	633.69	590.31	546.88
587.02	603.39	588.21	573.64	589.25	637.21	590.34	562.29
587.03	566.98	588.22	607.19	589.30	544.27	590.36	594.03
587.08	606.67	588.23	660.75	589.31	594.73	590.37	606.55
587.12	583.46	588.25	569.65	589.33	659.63	590.38	581.20
587.13	545.03	588.27	609.05	589.34	596.76	590.39	627.46
587.17	639.97	588.28	608.43	589.37	600.47	590.40	643.83
587.21	563.70	588.29	622.12	589.38	562.00	590.41	607.65
587.22	589.23	588.30	571.67	589.40	610.97	590.43	596.21
587.23	591.11	588.31	609.29	589.41	633.92	590.46	628.46
587.24	544.73	588.32	590.06	589.44	648.87	590.51	546.53
587.28	607.64	588.33	608.81	589.45	600.55	590.52	607.35
587.32	544.42	588.34	591.32	589.47	583.77	590.53	557.25
587.35	566.15	588.35	593.17	589.49	565.30	590.57	548.88
587.38	631.34	588.36	592.71	589.52	562.48	590.59	599.77
587.39	549.70	588.39	589.65	589.55	632.95	590.60	594.47
587.44	617.99	588.40	593.63	589.56	551.93	590.62	584.94
587.48	563.86	588.41	547.90	589.57	563.97	590.66	574.58

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
590.68	620.96	591.88	615.39	593.02	546.86	594.11	636.75
590.69	637.08	591.90	569.50	593.03	542.56	594.14	547.51
590.70	598.36	591.91	554.57	593.04	549.78	594.15	601.37
590.71	560.78	591.94	608.05	593.05	609.19	594.16	555.85
590.72	594.22	591.95	594.02	593.06	636.18	594.18	584.13
590.73	599.96	591.96	544.23	593.07	546.75	594.24	608.28
590.74	548.57	592.01	609.78	593.10	562.43	594.27	561.37
590.75	564.79	592.03	594.84	593.11	616.09	594.32	608.13
590.80	607.87	592.04	550.48	593.14	593.90	594.35	603.59
590.82	584.22	592.05	566.83	593.16	553.40	594.36	614.58
590.84	614.52	592.09	609.25	593.18	539.64	594.37	563.20
590.85	549.13	592.11	591.96	593.20	549.68	594.38	553.04
590.89	548.61	592.12	631.95	593.22	637.82	594.39	609.41
590.90	593.93	592.13	607.23	593.24	634.55	594.42	541.28
590.91	567.03	592.14	594.91	593.27	639.71	594.43	545.29
590.92	586.45	592.16	548.02	593.28	600.18	594.45	549.29
590.94	545.92	592.17	547.71	593.30	634.25	594.47	564.57
590.95	541.28	592.19	556.32	593.32	621.55	594.48	635.21
590.96	607.25	592.23	648.79	593.34	567.96	594.51	580.16
590.98	543.94	592.24	599.52	593.36	564.55	594.53	595.54
591.00	606.86	592.25	660.07	593.38	616.59	594.58	593.96
591.01	548.29	592.29	578.57	593.39	543.94	594.60	609.58
591.02	637.43	592.30	544.26	593.43	551.65	594.61	545.66
591.03	539.66	592.31	596.84	593.45	609.08	594.63	568.36
591.04	544.27	592.32	611.07	593.46	569.78	594.64	660.42
591.05	548.98	592.33	634.86	593.49	594.20	594.69	619.03
591.07	558.23	592.36	547.70	593.52	590.75	594.70	591.92
591.08	619.49	592.40	545.41	593.56	567.87	594.71	635.97
591.09	580.95	592.41	560.95	593.57	610.21	594.72	609.32
591.14	573.05	592.42	575.15	593.59	608.27	594.74	564.14
591.16	563.00	592.45	560.59	593.60	600.94	594.76	658.65
591.17	587.71	592.48	621.09	593.61	567.53	594.77	601.94
591.21	548.85	592.49	546.81	593.62	634.20	594.79	660.26
591.22	606.58	592.50	610.81	593.64	593.60	594.80	594.67
591.23	650.42	592.51	568.66	593.65	565.65	594.82	545.80
591.24	542.18	592.54	559.30	593.67	541.93	594.83	553.27
591.26	609.38	592.56	660.36	593.68	568.02	594.84	609.08
591.31	624.94	592.57	544.34	593.69	576.65	594.87	634.89
591.32	551.79	592.59	660.83	593.70	553.20	594.90	608.43
591.35	566.20	592.60	563.51	593.73	606.68	594.92	547.58
591.37	633.13	592.61	632.70	593.75	635.84	594.93	545.71
591.38	644.71	592.65	608.56	593.76	567.14	594.94	633.68
591.39	594.26	592.70	602.41	593.79	552.69	594.96	602.25
591.41	577.98	592.71	538.26	593.80	609.92	594.97	550.73
591.44	605.84	592.72	548.54	593.81	567.48	594.99	546.29
591.46	608.63	592.74	545.27	593.82	549.31	595.01	567.71
591.51	639.30	592.75	594.92	593.83	620.27	595.04	562.31
591.52	608.42	592.76	573.81	593.84	602.63	595.05	581.83
591.55	570.01	592.78	569.58	593.90	547.73	595.07	549.58
591.58	609.24	592.81	564.11	593.93	638.47	595.08	553.14
591.60	590.40	592.83	543.77	593.95	604.19	595.09	634.55
591.63	598.04	592.84	601.09	593.96	546.69	595.10	605.28
591.64	609.41	592.85	564.02	593.97	598.07	595.14	597.53
591.66	609.12	592.87	643.31	594.00	629.63	595.15	609.64
591.68	623.48	592.89	608.77	594.01	598.76	595.16	593.50
591.69	641.76	592.93	553.84	594.02	566.02	595.20	603.71
591.70	553.22	592.95	550.15	594.04	615.52	595.25	570.72
591.77	561.00	592.97	576.97	594.05	562.73	595.27	610.56
591.83	601.63	592.98	606.37	594.08	637.84	595.28	594.30
591.86	545.84	593.00	594.07	594.09	598.62	595.29	541.40

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
595.30	598.57	596.33	576.11	597.56	544.81	598.76	543.48
595.31	633.69	596.35	574.63	597.57	661.17	598.77	546.79
595.32	660.57	596.37	543.93	597.59	605.91	598.79	593.88
595.35	634.08	596.38	549.26	597.60	612.95	598.80	595.10
595.36	543.29	596.40	549.83	597.61	609.49	598.81	633.25
595.37	554.20	596.41	547.18	597.64	551.26	598.82	547.13
595.40	598.96	596.42	598.35	597.67	549.39	598.85	542.80
595.41	609.52	596.43	610.68	597.68	554.55	598.95	578.82
595.44	607.90	596.45	566.05	597.70	572.64	598.98	546.27
595.45	643.67	596.46	564.97	597.73	550.80	598.99	594.78
595.46	643.74	596.48	588.27	597.75	568.21	599.00	546.82
595.48	548.27	596.49	594.31	597.76	594.03	599.04	550.58
595.50	594.45	596.50	594.17	597.77	543.06	599.06	594.45
595.52	564.75	596.51	549.40	597.80	643.53	599.07	607.81
595.53	608.96	596.60	609.51	597.83	565.78	599.08	581.05
595.54	649.17	596.63	641.71	597.84	588.85	599.09	623.92
595.55	659.82	596.64	545.51	597.87	546.27	599.10	544.97
595.57	633.91	596.65	574.27	597.89	546.77	599.11	550.36
595.59	543.33	596.66	544.74	597.92	658.43	599.12	544.03
595.61	607.57	596.68	594.18	597.93	624.43	599.13	570.41
595.64	645.17	596.71	594.78	597.96	594.51	599.14	539.77
595.65	563.64	596.78	636.46	597.97	551.29	599.15	565.09
595.66	603.55	596.81	661.47	598.00	594.84	599.17	604.92
595.67	567.44	596.86	608.58	598.01	573.32	599.19	571.99
595.68	546.66	596.87	562.43	598.03	562.59	599.21	606.53
595.69	593.95	596.89	550.03	598.04	549.72	599.22	562.69
595.70	550.14	596.90	632.23	598.05	543.95	599.23	566.72
595.71	545.25	596.94	541.58	598.08	579.60	599.29	564.87
595.72	545.02	596.96	587.72	598.09	551.63	599.30	595.03
595.73	550.41	596.99	646.74	598.10	660.56	599.31	594.57
595.74	546.08	597.01	549.17	598.17	600.27	599.34	607.39
595.76	653.39	597.02	565.44	598.18	586.06	599.37	539.23
595.77	554.09	597.03	598.64	598.20	543.94	599.39	634.47
595.78	628.93	597.07	632.05	598.21	599.89	599.40	543.95
595.79	545.12	597.08	602.45	598.26	569.33	599.41	546.33
595.80	546.00	597.09	546.26	598.27	596.27	599.43	549.75
595.81	658.58	597.10	659.52	598.30	594.55	599.45	553.54
595.82	575.29	597.13	652.58	598.35	595.11	599.46	540.69
595.85	546.03	597.15	613.04	598.36	595.13	599.47	547.15
595.86	596.23	597.17	600.57	598.37	661.27	599.48	604.93
595.87	661.14	597.18	575.47	598.40	601.95	599.49	569.41
595.88	649.48	597.22	558.30	598.42	580.40	599.50	605.65
595.89	607.18	597.23	543.49	598.44	660.50	599.53	545.18
595.91	597.05	597.25	606.52	598.45	564.19	599.56	610.36
595.92	617.73	597.28	634.50	598.46	574.74	599.58	576.92
595.95	547.20	597.31	610.93	598.48	584.00	599.60	657.93
596.00	617.07	597.32	572.31	598.52	572.30	599.61	574.84
596.01	589.57	597.35	613.25	598.53	635.23	599.62	546.60
596.02	559.76	597.38	606.49	598.55	642.32	599.65	594.00
596.04	569.10	597.39	604.45	598.57	603.39	599.68	590.72
596.10	661.10	597.40	660.12	598.58	559.98	599.70	547.98
596.11	609.51	597.42	548.80	598.63	594.88	599.73	546.52
596.12	585.36	597.43	541.37	598.64	594.97	599.74	547.40
596.14	635.79	597.46	565.89	598.65	553.15	599.75	548.63
596.16	632.62	597.47	548.91	598.67	550.46	599.76	547.33
596.17	552.98	597.48	559.32	598.68	605.06	599.77	547.01
596.18	544.35	597.49	594.40	598.71	594.41	599.84	600.83
596.20	552.36	597.51	546.06	598.72	629.97	599.85	600.77
596.22	642.64	597.54	600.67	598.73	610.97	599.90	577.30
596.26	547.39	597.55	609.57	598.74	546.32	599.92	617.31

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
599.95	570.52	601.13	662.51	602.36	603.82	603.70	636.36
599.96	569.99	601.14	635.17	602.40	609.25	603.73	594.82
599.97	545.07	601.15	600.87	602.42	573.81	603.76	547.81
599.98	594.40	601.18	570.33	602.45	611.17	603.77	645.85
600.00	594.09	601.19	544.46	602.52	617.38	603.79	609.18
600.01	605.37	601.21	640.48	602.55	577.68	603.81	659.76
600.02	610.67	601.25	545.24	602.56	610.59	603.82	610.72
600.03	564.10	601.27	543.80	602.58	599.56	603.86	592.43
600.06	551.01	601.30	635.23	602.59	659.92	603.87	626.56
600.07	595.15	601.31	548.82	602.61	597.92	603.89	654.65
600.08	609.33	601.32	553.72	602.62	602.31	603.91	545.66
600.10	569.32	601.34	542.56	602.70	595.15	603.94	545.19
600.11	573.07	601.36	543.45	602.71	579.15	603.95	617.17
600.13	660.03	601.42	661.04	602.72	609.89	603.97	569.63
600.15	581.59	601.44	547.20	602.75	601.21	603.98	557.33
600.20	553.29	601.46	633.27	602.76	648.49	603.99	632.68
600.21	565.46	601.47	635.08	602.79	608.39	604.02	600.82
600.22	611.90	601.50	662.25	602.81	606.00	604.06	603.06
600.23	571.75	601.51	610.15	602.82	595.26	604.08	595.33
600.27	574.23	601.54	561.20	602.83	608.62	604.12	570.68
600.33	549.88	601.55	588.84	602.84	609.31	604.13	575.82
600.36	550.91	601.56	544.90	602.85	635.32	604.15	577.88
600.37	594.50	601.58	567.23	602.86	600.07	604.16	649.90
600.42	605.36	601.59	608.59	602.88	547.15	604.17	658.59
600.43	615.12	601.63	573.61	602.89	569.00	604.19	635.63
600.44	544.88	601.64	651.29	602.90	594.58	604.21	602.23
600.45	568.94	601.65	594.66	602.92	589.71	604.22	594.52
600.46	549.75	601.67	608.20	602.94	550.82	604.23	634.93
600.47	614.80	601.68	617.32	602.96	594.27	604.26	610.03
600.48	571.08	601.70	661.11	602.97	603.27	604.29	604.18
600.51	549.78	601.75	581.40	603.01	616.26	604.32	567.39
600.54	542.04	601.76	635.84	603.02	548.13	604.34	606.25
600.55	599.07	601.77	611.49	603.03	570.66	604.36	648.48
600.56	539.77	601.78	659.35	603.06	560.42	604.37	594.38
600.57	594.46	601.80	637.78	603.12	648.97	604.38	648.96
600.58	582.26	601.83	564.44	603.13	578.43	604.41	606.06
600.59	608.48	601.86	568.30	603.15	609.26	604.42	594.68
600.60	546.76	601.90	551.37	603.17	607.20	604.43	584.78
600.61	548.32	601.93	553.00	603.18	595.05	604.47	585.66
600.62	635.38	601.94	568.20	603.20	555.23	604.48	595.29
600.64	650.02	601.95	642.22	603.23	570.64	604.50	573.32
600.65	545.26	601.98	640.27	603.25	604.12	604.51	567.52
600.66	595.11	601.99	597.29	603.27	549.15	604.52	548.49
600.67	635.44	602.00	608.80	603.28	594.77	604.53	586.20
600.68	595.22	602.01	582.75	603.30	606.35	604.55	635.70
600.70	546.71	602.03	595.79	603.34	609.94	604.58	569.42
600.71	608.40	602.06	633.34	603.40	635.32	604.59	649.99
600.78	570.35	602.07	609.63	603.41	570.50	604.60	608.75
600.79	544.31	602.08	594.20	603.42	650.52	604.61	626.85
600.80	551.47	602.09	594.98	603.43	577.05	604.65	607.01
600.82	545.56	602.10	562.80	603.44	566.19	604.66	637.19
600.85	547.40	602.12	635.46	603.46	547.21	604.70	569.30
600.87	661.63	602.14	603.36	603.50	595.65	604.73	652.49
600.89	609.83	602.20	552.20	603.52	611.53	604.74	548.60
600.90	554.77	602.27	542.26	603.54	659.73	604.76	574.23
600.91	603.15	602.28	563.60	603.56	659.88	604.79	600.53
600.93	649.15	602.29	609.82	603.58	554.62	604.80	610.51
600.96	616.76	602.30	554.63	603.64	659.52	604.81	554.81
601.00	615.56	602.34	635.99	603.67	599.26	604.82	554.20
601.08	612.20	602.35	610.34	603.68	555.46	604.89	660.84

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
604.90	547.92	606.26	601.16	607.63	553.02	609.06	661.37
604.91	611.03	606.28	573.05	607.65	550.71	609.07	637.87
604.95	610.03	606.29	595.18	607.66	550.21	609.08	610.35
604.99	595.23	606.35	597.23	607.70	547.61	609.13	549.28
605.03	552.19	606.37	567.76	607.71	550.33	609.14	610.82
605.04	576.79	606.39	570.61	607.79	603.17	609.15	609.39
605.06	607.06	606.45	572.58	607.85	594.88	609.18	548.73
605.07	595.15	606.46	610.43	607.86	609.20	609.21	621.31
605.09	608.55	606.49	573.43	607.88	611.45	609.22	578.39
605.10	606.27	606.51	611.76	607.89	558.40	609.23	651.94
605.14	575.93	606.52	609.20	607.92	608.70	609.25	545.84
605.15	609.86	606.54	547.47	607.96	552.01	609.28	610.12
605.19	661.54	606.55	636.43	607.97	636.67	609.29	594.94
605.20	572.94	606.58	548.20	607.99	556.55	609.30	549.10
605.21	571.94	606.60	638.52	608.02	571.97	609.33	548.47
605.22	572.21	606.63	610.74	608.08	554.69	609.34	594.58
605.24	611.84	606.65	652.38	608.13	641.19	609.35	610.75
605.25	601.24	606.68	590.40	608.14	594.57	609.38	608.48
605.26	634.56	606.71	611.16	608.16	609.28	609.39	616.14
605.28	636.14	606.72	598.56	608.19	636.98	609.42	553.84
605.29	603.37	606.73	609.86	608.20	595.38	609.43	662.09
605.30	659.19	606.75	610.01	608.22	622.50	609.45	631.03
605.32	574.80	606.76	551.34	608.23	659.56	609.46	653.80
605.39	609.70	606.78	635.01	608.25	605.26	609.48	546.37
605.40	637.38	606.81	604.17	608.26	659.69	609.50	651.60
605.44	609.86	606.82	577.08	608.27	647.55	609.52	636.86
605.49	610.12	606.83	661.82	608.32	659.56	609.55	602.62
605.50	548.06	606.87	550.07	608.33	545.51	609.59	542.58
605.55	615.71	606.88	547.66	608.36	549.70	609.64	594.98
605.57	610.94	606.92	643.34	608.38	556.61	609.68	548.50
605.61	637.62	606.96	548.90	608.41	606.35	609.69	543.37
605.63	580.08	607.00	610.66	608.42	607.22	609.71	598.75
605.65	610.48	607.03	594.92	608.44	588.92	609.73	661.77
605.67	550.65	607.04	648.33	608.50	574.13	609.79	662.19
605.72	552.03	607.07	609.05	608.51	595.04	609.86	644.27
605.73	610.16	607.08	606.53	608.52	609.70	609.87	636.62
605.74	652.64	607.11	580.96	608.53	610.57	609.89	609.73
605.77	637.40	607.13	605.70	608.54	636.05	609.93	608.75
605.79	594.84	607.17	643.92	608.55	608.99	609.96	553.56
605.82	650.74	607.18	608.47	608.60	576.37	609.98	636.36
605.86	618.02	607.19	551.99	608.61	638.14	609.99	590.46
605.87	594.65	607.20	608.58	608.63	546.28	610.00	605.00
605.91	567.15	607.22	636.84	608.67	659.84	610.03	553.90
605.92	571.19	607.23	572.66	608.68	553.39	610.04	579.60
605.93	576.71	607.25	610.61	608.69	549.12	610.06	549.91
605.94	579.99	607.28	601.35	608.72	661.37	610.07	548.87
605.97	599.47	607.29	638.11	608.73	569.85	610.10	636.12
605.99	568.80	607.31	545.76	608.75	611.96	610.11	610.64
606.00	610.39	607.32	591.22	608.80	577.76	610.13	564.41
606.02	594.76	607.35	616.07	608.81	638.19	610.15	571.70
606.03	601.11	607.36	611.27	608.84	609.65	610.18	600.85
606.05	615.64	607.38	579.70	608.85	608.87	610.21	574.37
606.12	631.21	607.42	555.67	608.88	660.64	610.23	608.03
606.15	580.19	607.45	644.93	608.89	548.80	610.24	580.77
606.17	595.11	607.46	632.72	608.93	651.54	610.25	551.91
606.19	641.48	607.54	546.09	608.96	632.81	610.31	595.23
606.20	648.32	607.56	549.61	608.98	550.07	610.32	547.85
606.21	634.34	607.57	594.59	609.02	552.35	610.33	609.37
606.22	555.62	607.58	571.72	609.03	595.54	610.34	605.60
606.24	604.12	607.59	608.66	609.05	569.49	610.35	662.28

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
610.36	556.52	611.79	602.07	613.04	549.45	614.26	599.79
610.37	610.73	611.81	587.42	613.08	608.26	614.30	633.60
610.39	607.03	611.86	607.02	613.09	650.69	614.34	591.81
610.42	556.98	611.87	616.57	613.10	612.26	614.35	622.84
610.46	545.72	611.89	610.72	613.11	611.89	614.37	544.42
610.49	609.09	611.90	604.47	613.12	650.83	614.41	546.56
610.50	653.14	611.92	638.92	613.16	559.64	614.42	659.59
610.51	580.61	611.95	597.98	613.18	543.94	614.43	545.48
610.53	613.76	611.97	649.03	613.20	555.79	614.46	612.66
610.54	651.81	612.04	636.66	613.24	614.04	614.47	610.64
610.56	607.84	612.11	541.80	613.25	546.17	614.49	627.27
610.57	609.21	612.14	546.69	613.26	636.46	614.50	595.12
610.58	568.20	612.18	661.78	613.27	577.13	614.53	609.49
610.60	549.46	612.19	610.78	613.29	607.72	614.55	611.11
610.62	554.25	612.20	629.64	613.30	645.03	614.57	616.47
610.64	549.31	612.21	595.07	613.34	595.72	614.60	610.80
610.68	555.94	612.24	549.44	613.36	579.41	614.61	609.91
610.69	549.84	612.26	595.67	613.38	548.91	614.66	649.70
610.71	553.16	612.29	655.28	613.39	612.35	614.69	550.03
610.76	609.36	612.30	640.55	613.40	661.80	614.72	584.57
610.79	582.75	612.33	595.57	613.41	637.48	614.73	615.69
610.80	636.19	612.39	610.37	613.45	661.94	614.75	610.41
610.86	605.54	612.41	639.79	613.46	660.74	614.76	545.76
610.89	609.45	612.44	662.64	613.48	610.62	614.78	657.70
610.90	606.09	612.45	624.06	613.55	609.69	614.83	610.34
610.91	551.92	612.46	550.86	613.56	657.26	614.84	636.12
610.92	607.57	612.47	612.09	613.57	641.98	614.88	577.70
610.93	626.73	612.48	623.14	613.58	575.13	614.89	602.68
610.94	595.66	612.50	638.79	613.59	607.59	614.90	611.45
610.95	545.10	612.52	609.19	613.62	611.30	614.92	548.99
611.00	579.61	612.55	637.27	613.63	639.09	614.93	610.98
611.03	601.94	612.57	609.82	613.64	595.53	614.96	554.65
611.04	595.45	612.58	639.32	613.67	576.65	614.99	558.09
611.07	616.06	612.59	576.27	613.69	549.07	615.00	614.11
611.08	609.50	612.61	622.18	613.70	646.02	615.01	595.10
611.18	598.82	612.62	661.86	613.71	626.76	615.03	615.63
611.19	605.26	612.64	612.22	613.73	550.20	615.04	662.75
611.22	548.21	612.65	548.28	613.74	549.60	615.05	557.95
611.28	611.92	612.66	556.31	613.75	606.39	615.07	661.61
611.29	613.25	612.67	604.52	613.76	611.56	615.09	610.46
611.30	548.41	612.68	555.86	613.77	595.43	615.10	550.19
611.34	548.20	612.71	553.95	613.78	551.51	615.13	649.65
611.35	605.26	612.72	609.40	613.79	556.80	615.14	550.02
611.37	649.99	612.74	547.45	613.90	547.07	615.15	584.57
611.40	544.33	612.75	654.72	613.93	637.08	615.17	661.94
611.43	609.70	612.77	610.65	614.00	661.35	615.18	552.15
611.44	547.18	612.78	545.44	614.02	617.84	615.19	614.72
611.45	660.48	612.80	647.87	614.04	579.53	615.22	637.82
611.46	597.52	612.85	549.62	614.08	552.18	615.24	582.12
611.48	624.94	612.86	579.72	614.09	598.06	615.25	549.74
611.55	610.27	612.87	551.35	614.10	664.46	615.26	610.07
611.58	552.05	612.89	544.99	614.11	575.29	615.27	573.31
611.60	614.26	612.91	552.68	614.12	607.36	615.30	595.35
611.64	659.35	612.92	609.63	614.13	557.19	615.31	618.10
611.65	604.89	612.93	547.76	614.14	610.60	615.32	580.79
611.67	562.53	612.94	661.99	614.15	609.50	615.34	635.81
611.68	603.11	612.95	611.17	614.16	604.22	615.36	651.15
611.69	548.90	612.98	557.48	614.17	639.93	615.38	576.70
611.72	595.13	613.01	610.49	614.19	570.70	615.40	654.09
611.75	619.17	613.03	595.53	614.24	611.70	615.41	578.80

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
615.42	612.19	616.80	637.11	618.27	586.84	619.52	583.59
615.44	650.26	616.83	550.37	618.28	610.93	619.53	644.92
615.47	598.73	616.84	573.94	618.29	595.88	619.55	581.76
615.49	608.02	616.86	548.09	618.32	595.19	619.56	612.43
615.50	612.38	616.88	546.97	618.33	658.05	619.61	611.27
615.53	557.72	616.90	548.53	618.38	634.95	619.62	611.54
615.54	598.17	616.91	609.08	618.39	609.55	619.63	616.55
615.63	556.23	616.92	639.57	618.42	595.35	619.65	638.25
615.65	616.29	616.95	653.12	618.43	638.26	619.67	634.92
615.68	548.16	616.96	652.86	618.44	545.21	619.68	600.67
615.69	576.56	617.02	609.60	618.46	609.91	619.69	554.35
615.70	592.46	617.07	585.20	618.48	608.27	619.71	577.03
615.71	610.41	617.08	610.18	618.49	580.19	619.72	627.40
615.72	550.08	617.13	578.02	618.50	595.34	619.73	595.93
615.75	595.79	617.15	610.79	618.59	595.86	619.74	611.85
615.76	638.81	617.18	610.86	618.60	556.66	619.75	620.72
615.77	596.21	617.19	611.35	618.62	661.94	619.76	660.12
615.80	662.86	617.20	613.91	618.64	611.72	619.81	595.41
615.83	623.37	617.21	663.84	618.70	550.50	619.82	611.07
615.84	638.75	617.22	610.37	618.71	613.50	619.84	658.56
615.87	609.30	617.24	585.17	618.73	580.98	619.89	612.07
615.89	595.19	617.26	554.26	618.75	611.26	619.94	614.49
615.90	595.85	617.28	585.85	618.76	660.59	620.01	558.06
615.94	618.66	617.32	640.92	618.77	654.36	620.02	637.41
615.96	612.51	617.33	595.20	618.78	606.04	620.05	662.67
616.00	638.97	617.34	586.85	618.81	648.04	620.08	618.19
616.05	567.19	617.37	654.76	618.82	619.63	620.12	610.81
616.08	610.66	617.43	602.28	618.83	599.20	620.15	559.14
616.10	557.75	617.45	638.56	618.85	639.68	620.18	591.39
616.11	593.60	617.46	637.43	618.89	612.48	620.19	609.22
616.12	634.45	617.55	549.24	618.93	659.12	620.21	658.73
616.13	655.29	617.58	595.78	618.94	614.45	620.22	653.31
616.16	610.92	617.60	638.52	618.95	595.28	620.25	554.00
616.17	618.38	617.64	555.61	618.97	663.36	620.27	595.26
616.22	546.94	617.65	548.17	618.98	611.67	620.31	596.04
616.23	660.40	617.67	579.49	618.99	612.15	620.32	558.82
616.25	615.08	617.71	611.09	619.01	612.07	620.35	557.44
616.26	639.82	617.72	650.83	619.05	614.50	620.36	616.30
616.27	611.24	617.73	637.36	619.06	646.88	620.37	612.24
616.29	579.48	617.74	639.35	619.07	637.42	620.38	652.79
616.30	585.20	617.80	609.18	619.11	578.62	620.39	584.17
616.32	611.60	617.81	576.63	619.12	648.66	620.40	611.90
616.33	665.25	617.86	654.77	619.14	605.90	620.43	615.45
616.37	657.59	617.88	627.95	619.16	610.89	620.45	660.03
616.40	606.12	617.90	659.33	619.17	637.34	620.47	611.03
616.42	646.74	617.94	610.04	619.25	638.12	620.48	577.65
616.43	628.42	617.95	639.90	619.26	612.70	620.50	661.63
616.44	553.95	617.96	648.92	619.31	640.67	620.54	609.60
616.46	637.14	617.97	618.35	619.32	635.98	620.58	611.33
616.49	595.92	617.98	635.39	619.34	583.63	620.60	631.80
616.53	639.74	618.00	613.09	619.35	581.63	620.62	558.86
616.56	571.76	618.01	595.90	619.37	592.53	620.65	658.87
616.59	624.47	618.05	594.64	619.39	553.72	620.70	620.51
616.62	605.67	618.08	662.52	619.42	638.22	620.72	645.61
616.64	661.40	618.11	639.95	619.43	625.17	620.76	587.25
616.65	556.92	618.13	624.31	619.44	594.63	620.77	610.56
616.71	544.55	618.20	612.26	619.46	611.39	620.79	612.31
616.73	579.92	618.21	577.92	619.49	637.28	620.80	614.27
616.74	580.01	618.22	616.72	619.50	618.59	620.83	662.45
616.76	660.16	618.23	649.29	619.51	611.21	620.84	615.92

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
620.85	582.45	622.19	611.78	623.45	656.94	624.93	619.71
620.87	621.34	622.20	619.80	623.46	595.34	624.94	661.58
620.88	595.45	622.22	611.55	623.48	587.34	624.97	619.11
620.91	595.35	622.24	637.45	623.49	559.14	625.03	554.21
620.94	547.12	622.25	581.35	623.51	558.68	625.05	551.64
620.96	616.07	622.27	611.41	623.52	650.12	625.07	612.56
620.97	558.72	622.31	578.97	623.53	595.91	625.08	609.06
620.98	551.03	622.32	617.52	623.55	639.92	625.10	589.62
620.99	662.01	622.33	551.34	623.56	551.92	625.11	663.95
621.00	613.04	622.35	597.49	623.58	595.54	625.14	623.67
621.02	609.22	622.36	551.94	623.60	663.96	625.19	619.01
621.03	612.06	622.38	656.99	623.67	596.07	625.22	651.36
621.05	640.96	622.39	637.19	623.70	638.13	625.26	551.60
621.06	638.52	622.41	605.48	623.71	660.73	625.31	558.85
621.07	620.33	622.42	550.61	623.72	638.24	625.37	581.28
621.08	552.96	622.43	614.91	623.76	551.85	625.38	652.12
621.10	611.19	622.47	586.01	623.79	596.13	625.39	558.96
621.16	549.33	622.48	610.26	623.84	607.85	625.44	662.29
621.18	582.20	622.50	663.09	623.86	641.57	625.45	574.07
621.19	597.49	622.51	618.99	623.89	662.97	625.52	620.83
621.21	612.63	622.52	595.76	623.91	667.57	625.53	626.61
621.22	663.50	622.55	632.51	623.97	550.27	625.55	608.45
621.24	577.93	622.56	552.61	623.99	618.61	625.57	615.11
621.28	618.00	622.61	616.77	624.04	584.04	625.62	576.35
621.31	623.40	622.62	578.23	624.05	610.88	625.66	648.88
621.32	550.97	622.66	617.47	624.06	612.08	625.67	628.45
621.33	618.25	622.69	574.79	624.08	611.86	625.79	661.43
621.38	611.96	622.70	662.38	624.12	581.80	625.80	657.93
621.41	611.88	622.71	611.23	624.14	610.92	625.81	612.84
621.46	552.06	622.74	627.79	624.15	662.25	625.83	585.36
621.52	652.25	622.77	548.91	624.18	638.50	625.90	619.46
621.54	595.43	622.79	637.86	624.19	611.55	625.91	640.49
621.56	613.46	622.80	575.74	624.20	610.84	625.99	619.96
621.57	639.59	622.81	618.23	624.21	641.46	626.02	552.88
621.58	611.83	622.83	616.23	624.22	667.89	626.08	621.41
621.60	611.54	622.85	589.04	624.26	616.91	626.11	640.63
621.62	649.28	622.86	660.44	624.33	641.30	626.15	599.87
621.63	620.18	622.89	550.78	624.37	661.75	626.17	620.93
621.65	609.18	622.90	611.44	624.40	612.72	626.21	637.98
621.68	617.62	622.92	663.10	624.42	549.75	626.23	613.47
621.69	550.54	622.93	555.59	624.44	613.06	626.30	638.52
621.73	664.15	622.95	611.96	624.46	638.42	626.31	552.06
621.74	615.24	622.97	610.70	624.47	612.84	626.34	553.92
621.76	595.90	622.99	616.38	624.48	616.37	626.36	664.77
621.77	609.98	623.07	592.16	624.51	620.28	626.47	612.06
621.78	628.49	623.14	551.35	624.52	629.97	626.53	641.39
621.79	637.02	623.15	549.24	624.53	642.16	626.54	595.53
621.80	584.45	623.21	615.84	624.57	551.52	626.60	662.71
621.84	614.74	623.23	612.62	624.63	660.07	626.62	668.99
621.85	610.97	623.25	595.92	624.64	608.72	626.63	663.84
621.87	611.35	623.26	596.04	624.66	641.60	626.65	610.86
621.88	611.53	623.27	579.65	624.69	638.16	626.67	590.24
621.92	652.65	623.28	639.88	624.73	549.91	626.68	609.12
621.96	551.28	623.30	609.64	624.79	559.27	626.69	622.25
621.97	619.45	623.31	595.52	624.81	583.81	626.72	616.33
622.14	595.44	623.34	558.82	624.87	553.68	626.73	616.25
622.15	611.67	623.38	629.32	624.88	610.97	626.76	595.78
622.16	622.06	623.40	612.07	624.89	581.01	626.77	551.49
622.17	595.92	623.43	612.35	624.90	551.24	626.78	637.56
622.18	663.58	623.44	664.66	624.92	617.84	626.84	611.36



PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
626.89	614.20	628.72	552.73	630.22	595.89	631.81	666.52
626.93	552.68	628.74	619.11	630.24	612.41	631.93	597.45
626.96	553.16	628.75	669.44	630.25	597.64	631.94	550.43
626.98	639.78	628.76	666.12	630.29	602.61	631.98	611.69
626.99	553.12	628.78	556.02	630.31	593.86	632.03	631.22
627.01	613.75	628.80	596.38	630.34	595.63	632.04	665.14
627.08	608.89	628.83	616.84	630.37	560.03	632.07	663.27
627.22	662.86	628.86	641.79	630.39	674.87	632.10	587.66
627.26	581.73	628.87	595.73	630.40	664.87	632.11	664.13
627.32	554.13	628.88	595.98	630.41	664.91	632.12	662.74
627.34	614.84	628.89	623.78	630.42	666.46	632.15	552.52
627.41	611.32	628.97	642.95	630.45	618.70	632.17	580.19
627.42	556.17	629.02	650.14	630.50	665.05	632.20	626.99
627.46	612.28	629.08	664.66	630.52	605.84	632.22	663.01
627.49	573.67	629.12	599.47	630.54	596.12	632.23	596.44
627.50	585.50	629.13	609.97	630.56	642.89	632.33	642.51
627.51	551.62	629.15	661.22	630.61	596.61	632.35	621.50
627.53	665.68	629.17	611.82	630.62	552.62	632.36	622.87
627.56	550.30	629.18	613.61	630.63	553.21	632.38	662.92
627.57	613.59	629.19	619.84	630.64	547.83	632.41	614.04
627.58	666.39	629.20	616.41	630.65	637.56	632.42	606.91
627.62	596.09	629.22	610.92	630.68	547.97	632.43	554.42
627.70	639.25	629.27	641.62	630.69	623.18	632.45	626.21
627.71	662.94	629.28	620.70	630.73	579.06	632.50	550.22
627.72	632.10	629.30	641.75	630.80	596.39	632.51	612.35
627.78	613.75	629.32	629.10	630.83	581.14	632.52	666.02
627.79	614.56	629.35	612.57	630.84	585.63	632.58	642.48
627.84	581.96	629.37	579.65	630.85	671.19	632.60	559.98
627.85	597.43	629.38	662.31	630.92	666.78	632.61	611.10
627.88	595.78	629.39	642.37	630.93	550.07	632.62	612.95
627.90	625.29	629.46	553.67	630.96	551.75	632.65	676.41
627.94	663.31	629.48	552.68	630.97	591.07	632.66	610.19
627.97	621.88	629.51	650.21	631.00	620.62	632.70	613.96
628.04	552.54	629.53	639.86	631.02	671.56	632.72	641.71
628.07	553.61	629.54	665.18	631.09	641.39	632.73	612.58
628.08	560.07	629.56	609.93	631.10	663.78	632.78	626.15
628.10	559.49	629.57	664.48	631.11	611.94	632.80	667.01
628.11	638.70	629.61	616.04	631.13	612.07	632.81	643.41
628.14	663.32	629.64	601.77	631.19	614.48	632.83	660.63
628.16	641.07	629.68	663.27	631.28	663.32	632.91	627.75
628.23	590.16	629.70	663.30	631.30	660.99	632.92	611.49
628.25	620.47	629.73	596.60	631.35	615.47	632.93	622.00
628.26	610.89	629.76	573.95	631.37	591.09	632.94	615.07
628.27	637.09	629.79	552.85	631.38	642.65	632.95	638.95
628.29	552.49	629.82	654.56	631.39	586.18	632.96	615.69
628.33	621.55	629.86	559.18	631.41	634.94	632.99	606.97
628.34	596.35	629.87	552.97	631.42	625.42	633.05	643.89
628.35	610.64	629.94	622.84	631.43	639.38	633.06	554.32
628.46	611.65	629.96	555.09	631.46	598.23	633.07	638.71
628.47	641.89	629.99	665.44	631.47	619.45	633.09	618.22
628.52	663.73	630.00	618.96	631.48	613.70	633.11	613.05
628.54	653.36	630.02	553.71	631.59	623.63	633.12	554.58
628.56	548.87	630.03	557.81	631.67	607.01	633.16	614.26
628.57	549.16	630.08	667.20	631.68	665.44	633.19	612.51
628.61	595.82	630.09	625.11	631.70	664.59	633.20	607.52
628.63	553.54	630.15	560.19	631.72	556.34	633.22	627.68
628.64	595.75	630.16	621.70	631.75	613.26	633.24	625.07
628.66	615.20	630.17	655.26	631.76	612.50	633.27	577.12
628.67	549.83	630.18	620.87	631.78	640.11	633.31	665.07
628.71	552.18	630.21	625.47	631.80	626.41	633.34	625.88

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
633.37	596.53	634.99	625.35	636.57	615.69	638.67	631.07
633.38	664.00	635.01	629.20	636.59	626.88	638.72	649.03
633.40	553.83	635.03	662.20	636.60	643.17	638.73	644.41
633.42	614.70	635.09	554.43	636.62	621.82	638.79	596.52
633.44	596.44	635.14	560.85	636.67	587.20	638.81	614.00
633.46	596.23	635.20	612.35	636.74	592.51	638.82	596.52
633.49	663.31	635.21	657.46	636.78	617.45	638.90	644.84
633.52	596.18	635.22	668.21	636.80	651.10	638.98	672.54
633.54	641.87	635.24	588.62	636.81	612.55	639.00	640.71
633.56	660.72	635.27	662.94	636.84	665.68	639.02	665.92
633.58	640.11	635.28	634.13	636.85	612.50	639.04	665.59
633.60	637.34	635.31	664.80	636.93	614.11	639.05	552.07
633.61	624.63	635.33	620.75	636.98	612.42	639.06	645.11
633.66	664.49	635.38	554.80	637.01	630.08	639.12	627.52
633.69	644.64	635.39	628.31	637.03	642.83	639.21	670.69
633.77	638.00	635.40	658.52	637.06	597.22	639.22	641.60
633.81	622.25	635.44	666.02	637.14	613.05	639.26	621.00
633.85	596.30	635.45	654.60	637.17	666.00	639.28	612.98
633.87	591.38	635.48	612.53	637.19	599.11	639.31	596.72
633.92	677.45	635.54	643.19	637.26	644.72	639.32	593.43
633.93	643.67	635.57	554.82	637.27	613.30	639.37	553.92
633.94	667.76	635.58	638.23	637.28	669.31	639.41	600.14
633.98	641.85	635.59	614.24	637.31	612.97	639.44	552.67
634.00	650.89	635.62	612.77	637.36	664.62	639.46	641.67
634.02	624.25	635.64	626.02	637.40	642.17	639.47	555.26
634.04	611.64	635.66	669.50	637.48	663.23	639.49	624.88
634.08	603.28	635.69	588.04	637.50	664.12	639.50	612.39
634.09	639.87	635.71	626.64	637.52	591.63	639.57	642.50
634.10	572.18	635.74	662.93	637.54	614.11	639.63	625.77
634.11	625.11	635.76	662.99	637.55	621.77	639.66	614.19
634.13	550.86	635.77	669.11	637.57	629.95	639.70	621.95
634.17	671.02	635.80	611.50	637.61	595.67	639.71	662.66
634.19	664.76	635.83	609.50	637.66	552.59	639.72	662.83
634.28	624.35	635.85	612.85	637.69	669.76	639.81	641.29
634.29	596.55	635.87	602.89	637.80	609.56	639.83	610.22
634.31	629.37	635.88	596.79	637.81	623.15	639.94	637.98
634.40	613.36	635.91	625.32	637.84	667.74	639.96	670.58
634.42	608.13	635.95	643.12	637.85	665.78	639.99	614.36
634.43	665.83	635.97	626.93	637.91	646.58	640.00	612.94
634.44	658.93	636.00	639.74	637.92	559.52	640.01	612.93
634.45	671.13	636.02	596.00	637.94	644.63	640.02	666.62
634.46	667.23	636.03	665.34	637.95	596.22	640.03	611.41
634.47	666.80	636.05	612.48	637.96	595.52	640.06	561.21
634.49	595.98	636.07	614.10	637.99	669.86	640.10	611.48
634.51	664.90	636.13	596.87	638.05	666.76	640.13	561.91
634.52	667.60	636.15	613.52	638.12	561.76	640.14	627.01
634.55	596.40	636.16	628.35	638.13	554.66	640.19	594.22
634.62	663.84	636.18	612.38	638.17	596.28	640.28	612.90
634.63	652.73	636.21	641.20	638.22	646.11	640.37	596.10
634.65	661.87	636.22	596.39	638.25	664.16	640.49	644.92
634.68	643.11	636.24	589.60	638.32	611.84	640.50	612.98
634.77	652.49	636.28	666.72	638.33	596.71	640.52	622.32
634.78	620.02	636.30	612.96	638.36	622.79	640.57	621.23
634.85	553.45	636.35	663.75	638.43	627.66	640.58	644.81
634.86	629.90	636.36	627.60	638.48	628.94	640.59	596.22
634.88	625.31	636.41	596.15	638.49	617.28	640.63	624.31
634.90	588.84	636.43	611.61	638.51	612.06	640.65	596.76
634.92	613.60	636.49	611.15	638.53	596.11	640.66	663.90
634.93	612.98	636.53	628.48	638.56	666.02	640.69	596.77
634.98	665.29	636.55	613.61	638.57	611.27	640.74	607.16

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
640.75	551.38	642.50	672.04	644.25	625.33	646.15	666.81
640.76	625.10	642.52	596.12	644.27	629.18	646.17	683.03
640.77	631.13	642.58	611.71	644.28	672.72	646.21	643.51
640.78	596.80	642.59	551.76	644.33	632.27	646.39	600.43
640.79	616.74	642.60	611.80	644.34	627.16	646.43	596.55
640.80	676.40	642.62	626.42	644.36	626.52	646.45	663.18
640.81	555.61	642.66	647.42	644.37	664.49	646.47	552.90
640.83	553.45	642.70	551.95	644.49	663.15	646.48	646.62
640.84	657.85	642.72	674.55	644.50	649.72	646.49	556.23
640.86	641.30	642.77	625.98	644.57	597.23	646.55	644.64
640.88	623.24	642.79	625.31	644.58	673.97	646.58	646.84
640.92	555.72	642.80	644.20	644.59	613.64	646.65	659.40
640.93	611.17	642.82	562.11	644.61	649.52	646.72	621.32
640.94	554.07	642.86	555.01	644.62	675.35	646.74	646.40
640.95	665.47	642.90	643.08	644.64	644.88	646.76	664.80
640.96	591.97	642.93	554.71	644.66	666.24	646.77	645.44
640.97	626.13	642.96	632.12	644.67	628.45	646.80	646.67
640.98	665.02	642.98	597.92	644.71	675.35	646.83	643.35
641.02	560.74	643.01	597.20	644.73	555.23	646.84	675.33
641.03	605.20	643.03	617.82	644.80	668.44	646.85	674.29
641.07	606.33	643.04	682.41	644.84	640.20	646.88	550.64
641.10	649.49	643.11	621.74	644.86	556.02	646.89	613.55
641.13	622.81	643.12	669.87	644.90	642.56	646.90	552.25
641.14	631.97	643.13	596.75	644.92	631.40	646.95	651.25
641.15	611.79	643.17	594.28	644.94	679.14	646.97	621.63
641.17	596.78	643.18	561.98	644.96	667.97	646.98	665.20
641.18	612.29	643.19	658.72	644.98	598.43	647.06	611.46
641.19	557.47	643.26	627.58	645.00	668.13	647.07	658.05
641.20	596.22	643.27	636.80	645.03	646.86	647.08	683.30
641.25	612.70	643.29	554.81	645.06	663.67	647.09	597.26
641.26	554.43	643.31	596.35	645.08	644.16	647.10	669.32
641.27	595.97	643.34	557.09	645.14	624.18	647.12	665.37
641.32	660.81	643.38	672.68	645.23	637.36	647.15	628.32
641.39	613.79	643.41	597.17	645.26	614.42	647.17	646.62
641.43	596.94	643.43	676.98	645.27	626.89	647.18	676.33
641.46	596.91	643.45	557.29	645.28	594.60	647.20	644.96
641.47	561.26	643.46	561.88	645.37	646.32	647.23	620.70
641.50	616.55	643.47	613.46	645.42	666.80	647.25	645.60
641.53	645.24	643.49	556.74	645.43	675.66	647.27	641.17
641.54	675.77	643.56	612.09	645.44	669.50	647.32	645.83
641.66	644.67	643.57	558.07	645.48	669.89	647.38	597.34
641.69	644.80	643.59	614.03	645.53	668.71	647.39	679.00
641.72	554.23	643.74	645.32	645.54	657.73	647.41	664.75
641.75	648.79	643.75	634.71	645.58	554.92	647.47	555.30
641.80	624.21	643.76	631.35	645.59	555.70	647.59	614.41
641.87	597.33	643.77	667.41	645.64	613.63	647.63	613.20
641.91	647.99	643.78	629.32	645.66	557.19	647.66	624.81
641.96	682.41	643.80	596.52	645.71	641.08	647.73	635.72
642.03	612.74	643.81	557.20	645.73	596.18	647.80	636.09
642.06	611.28	643.82	555.15	645.83	631.56	647.81	612.92
642.08	651.68	643.83	642.70	645.84	554.09	647.88	644.82
642.11	610.99	643.97	648.66	645.86	644.93	647.89	666.19
642.13	665.44	643.99	555.22	645.88	593.46	647.92	640.00
642.18	596.52	644.00	627.75	645.91	642.65	647.93	681.90
642.25	588.87	644.03	630.60	645.98	592.38	647.97	635.26
642.30	672.46	644.04	642.06	646.03	643.60	647.99	593.96
642.31	667.78	644.05	595.06	646.05	633.94	648.02	597.30
642.37	628.08	644.16	642.46	646.07	598.62	648.05	605.26
642.41	640.77	644.18	610.93	646.12	596.56	648.10	562.82
642.49	614.06	644.21	645.97	646.14	630.59	648.15	668.14

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
648.18	674.40	650.29	597.14	651.97	598.05	654.29	597.97
648.23	629.20	650.32	560.47	651.99	613.81	654.32	597.78
648.27	644.24	650.33	614.93	652.00	643.59	654.33	666.50
648.33	614.67	650.37	647.11	652.03	669.42	654.34	557.70
648.37	557.60	650.39	647.82	652.05	654.60	654.36	644.79
648.40	661.86	650.41	669.84	652.12	647.37	654.39	613.90
648.46	605.06	650.43	680.73	652.17	673.54	654.42	597.72
648.51	667.80	650.45	666.74	652.29	654.86	654.46	646.82
648.56	611.96	650.47	614.09	652.31	597.69	654.60	612.70
648.58	596.44	650.51	669.57	652.32	668.78	654.61	601.34
648.59	647.40	650.54	648.23	652.36	669.44	654.69	648.76
648.64	597.10	650.56	597.39	652.37	666.67	654.70	636.79
648.68	655.91	650.57	635.41	652.48	645.24	654.73	603.17
648.72	597.05	650.58	674.83	652.49	628.02	654.75	558.52
648.73	590.12	650.62	602.42	652.58	684.92	654.77	658.09
648.74	675.87	650.63	643.45	652.63	669.39	654.79	613.60
648.81	635.22	650.64	601.99	652.66	615.85	654.80	640.63
648.85	597.25	650.66	629.40	652.78	629.43	654.81	646.59
648.87	597.38	650.73	612.15	652.82	679.56	654.85	636.89
648.88	614.88	650.74	633.89	652.85	638.22	654.94	614.22
648.90	644.46	650.77	688.32	652.88	647.91	655.02	645.14
648.95	636.04	650.84	638.05	652.97	628.10	655.05	612.81
648.99	645.84	650.85	668.62	653.00	670.08	655.06	640.45
649.06	632.58	650.86	677.91	653.04	648.87	655.07	597.65
649.07	648.50	650.88	562.97	653.10	615.83	655.08	614.62
649.12	597.49	650.89	673.60	653.13	664.33	655.10	674.15
649.22	611.67	650.90	614.29	653.22	689.11	655.11	613.95
649.25	630.15	650.92	634.05	653.26	604.40	655.17	597.93
649.27	676.53	650.94	563.33	653.34	625.01	655.24	656.25
649.30	596.37	650.95	613.93	653.38	668.96	655.33	664.10
649.34	680.77	651.02	632.93	653.43	563.41	655.34	649.03
649.35	597.39	651.03	683.69	653.45	596.90	655.43	613.62
649.42	597.41	651.07	612.19	653.47	614.26	655.51	635.87
649.43	614.10	651.08	647.63	653.48	596.86	655.52	681.09
649.47	666.14	651.09	630.22	653.50	640.20	655.59	614.97
649.48	643.02	651.14	597.90	653.52	613.18	655.62	614.80
649.54	615.13	651.16	597.58	653.57	557.88	655.64	637.03
649.55	619.92	651.19	646.29	653.61	669.07	655.65	681.05
649.56	628.69	651.25	646.01	653.63	613.78	655.68	679.67
649.60	647.29	651.27	663.33	653.66	676.35	655.70	613.23
649.65	626.66	651.29	597.25	653.75	627.99	655.71	646.86
649.66	662.43	651.31	637.33	653.80	685.28	655.74	632.54
649.68	645.41	651.36	669.08	653.81	635.88	655.76	651.81
649.70	644.38	651.37	592.23	653.82	674.47	655.88	555.47
649.73	614.72	651.42	662.44	653.83	614.46	655.89	597.84
649.81	601.24	651.44	647.91	653.88	630.23	655.93	686.34
649.82	630.71	651.45	673.00	653.89	681.55	655.94	647.12
649.86	612.77	651.53	647.14	653.90	614.45	656.06	605.52
649.89	644.60	651.54	653.50	653.93	617.90	656.18	675.57
649.94	597.37	651.55	597.44	653.94	613.92	656.20	665.78
649.95	671.47	651.72	596.80	653.97	597.61	656.23	597.12
649.96	647.16	651.77	680.88	654.01	668.58	656.29	556.77
649.98	663.32	651.78	605.31	654.04	617.24	656.37	615.24
650.03	612.05	651.79	597.80	654.05	612.16	656.45	638.10
650.05	600.71	651.84	597.33	654.08	671.26	656.51	604.95
650.07	673.10	651.85	665.98	654.11	643.53	656.52	681.41
650.09	634.87	651.86	678.84	654.12	637.01	656.55	613.13
650.10	661.20	651.90	644.17	654.16	614.05	656.57	666.88
650.16	669.50	651.92	596.76	654.17	613.35	656.58	598.45
650.17	688.23	651.94	635.16	654.27	558.04	656.59	597.53

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
656.68	632.79	658.52	597.37	660.65	658.80	663.20	615.18
656.73	647.59	658.53	654.22	660.67	637.41	663.22	598.53
656.79	639.41	658.56	557.72	660.76	627.78	663.23	668.13
656.80	666.45	658.62	648.20	660.80	642.18	663.25	640.95
656.81	666.51	658.74	635.67	660.91	659.02	663.29	649.55
656.82	598.07	658.75	558.71	660.94	684.52	663.30	674.58
656.85	597.51	658.81	604.89	660.99	667.37	663.31	607.81
656.87	646.15	658.88	648.50	661.01	559.23	663.36	665.40
656.91	597.77	658.94	637.61	661.03	656.08	663.40	646.83
656.96	683.63	658.97	683.15	661.04	650.92	663.46	558.65
657.01	645.62	659.04	679.81	661.15	667.11	663.51	621.85
657.04	635.47	659.12	669.14	661.16	625.08	663.55	612.97
657.06	669.25	659.14	563.64	661.17	647.51	663.61	640.92
657.09	679.85	659.18	597.51	661.25	672.44	663.62	638.44
657.11	650.19	659.22	689.17	661.27	668.02	663.63	686.53
657.16	657.24	659.28	666.28	661.32	684.58	663.66	680.84
657.20	556.80	659.29	614.21	661.34	650.28	663.71	640.46
657.23	647.90	659.40	685.60	661.36	685.64	663.76	598.14
657.28	598.15	659.43	637.43	661.41	695.88	663.83	690.95
657.29	628.76	659.48	556.89	661.45	598.55	663.85	649.98
657.33	597.84	659.49	685.70	661.46	651.26	663.87	649.76
657.34	597.75	659.50	627.96	661.50	651.26	663.88	668.57
657.35	613.38	659.51	614.22	661.52	611.97	664.01	616.10
657.37	638.82	659.54	554.59	661.57	597.20	664.09	675.24
657.39	647.64	659.55	564.03	661.63	619.59	664.15	645.47
657.42	656.94	659.65	553.70	661.64	677.26	664.17	615.43
657.43	605.74	659.69	641.69	661.67	610.51	664.30	614.96
657.46	647.41	659.72	597.54	661.68	634.73	664.32	615.75
657.50	678.87	659.73	680.50	661.69	614.54	664.35	672.88
657.52	649.44	659.74	598.77	661.72	633.16	664.42	685.88
657.56	604.52	659.75	650.46	661.73	631.43	664.47	645.96
657.57	614.16	659.77	598.28	661.74	556.04	664.51	669.22
657.60	633.86	659.79	679.73	661.79	642.16	664.57	598.79
657.63	633.26	659.82	657.90	661.81	670.40	664.59	615.90
657.67	666.41	659.86	563.05	661.87	667.72	664.60	651.46
657.70	645.56	659.87	614.57	661.91	684.75	664.65	639.79
657.78	632.09	659.89	637.86	661.95	649.97	664.67	611.82
657.84	613.64	659.90	679.47	661.97	556.30	664.69	598.79
657.91	555.50	659.94	633.77	662.11	564.10	664.75	638.45
657.92	647.73	659.97	686.66	662.15	641.47	664.78	644.07
657.93	667.71	659.98	684.47	662.17	669.02	664.80	615.39
657.95	614.07	660.00	559.82	662.18	615.52	664.81	633.36
658.02	597.47	660.01	650.19	662.19	670.52	664.88	670.17
658.03	672.60	660.14	592.03	662.25	649.54	664.92	651.38
658.10	685.21	660.19	556.19	662.28	563.94	664.94	598.81
658.14	555.11	660.23	597.48	662.29	651.28	664.98	599.31
658.15	645.59	660.25	597.96	662.30	626.14	665.01	598.96
658.16	641.03	660.26	684.05	662.38	614.28	665.05	598.03
658.19	657.77	660.29	645.26	662.46	598.35	665.14	661.81
658.21	557.19	660.31	658.38	662.50	650.88	665.15	668.64
658.22	614.11	660.34	645.25	662.61	677.95	665.18	622.38
658.25	556.82	660.35	614.31	662.65	641.33	665.19	651.42
658.27	622.28	660.36	647.61	662.70	598.39	665.25	669.50
658.32	592.34	660.39	609.84	662.74	598.78	665.26	643.83
658.37	676.76	660.40	649.74	662.77	670.51	665.29	615.90
658.40	615.57	660.49	597.96	662.81	668.26	665.30	598.93
658.43	613.17	660.53	650.12	662.96	648.12	665.52	653.56
658.45	611.14	660.57	694.98	663.02	650.98	665.56	683.97
658.47	606.83	660.63	557.59	663.06	667.66	665.61	640.03
658.49	640.58	660.64	646.16	663.07	649.15	665.75	642.31

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
665.76	681.21	668.45	614.92	671.43	612.61	674.54	683.13
665.82	669.12	668.46	606.81	671.44	674.56	674.69	616.88
665.83	646.59	668.52	615.24	671.50	653.15	674.70	643.12
665.89	666.36	668.63	645.48	671.56	653.27	674.74	655.69
665.91	672.12	668.64	676.51	671.60	614.45	674.78	652.10
665.96	661.69	668.65	649.43	671.68	675.28	674.80	649.86
666.01	668.41	668.69	652.20	671.72	614.31	674.82	653.60
666.03	652.10	668.79	647.93	671.77	643.10	674.85	639.75
666.05	662.51	668.82	638.55	671.83	560.24	674.87	642.68
666.07	669.46	668.84	667.39	671.85	664.66	674.88	641.19
666.13	668.25	668.93	677.87	671.89	667.41	674.92	614.85
666.22	647.26	669.05	681.93	671.96	654.23	675.03	685.76
666.26	649.81	669.16	651.69	671.97	659.40	675.04	677.10
666.35	681.21	669.17	651.20	671.98	697.34	675.08	676.09
666.36	674.90	669.24	654.85	672.15	656.86	675.12	692.32
666.39	681.28	669.32	687.53	672.28	671.22	675.13	635.47
666.46	650.65	669.38	643.58	672.39	615.35	675.15	615.59
666.53	651.43	669.44	612.29	672.53	599.40	675.24	679.58
666.54	632.04	669.49	693.00	672.62	615.22	675.27	558.84
666.55	668.79	669.52	616.05	672.65	691.13	675.30	652.74
666.58	661.60	669.58	599.20	672.67	600.24	675.31	671.34
666.61	643.53	669.59	653.03	672.70	671.11	675.36	684.32
666.73	616.46	669.60	624.55	672.72	664.91	675.47	693.63
666.78	685.20	669.67	615.22	672.76	668.98	675.51	557.85
666.82	662.44	669.84	671.90	672.78	646.74	675.66	673.62
666.83	616.05	669.90	685.65	672.80	615.20	675.67	685.85
666.94	657.11	669.98	674.61	672.85	703.28	675.68	704.65
666.98	598.27	670.01	614.05	672.86	644.35	675.69	615.62
667.01	598.76	670.04	669.42	672.89	651.65	675.70	667.30
667.02	685.21	670.10	651.76	672.90	673.16	675.80	560.93
667.25	668.69	670.21	665.95	673.00	652.33	675.85	651.24
667.31	598.05	670.23	686.56	673.08	616.85	675.86	677.06
667.46	608.54	670.25	598.90	673.13	666.40	675.95	560.85
667.47	665.69	670.28	652.79	673.30	614.43	675.97	667.53
667.55	669.47	670.34	614.47	673.37	614.40	675.99	600.33
667.56	644.35	670.35	649.29	673.39	599.71	676.10	600.95
667.60	639.20	670.39	670.39	673.40	671.25	676.21	693.01
667.61	653.47	670.41	599.17	673.46	615.24	676.22	688.94
667.62	650.19	670.43	690.09	673.47	616.64	676.24	669.20
667.70	654.33	670.48	610.87	673.57	703.89	676.36	616.02
667.71	666.23	670.50	614.91	673.64	600.76	676.52	601.31
667.76	644.30	670.51	671.82	673.73	673.12	676.54	651.27
667.87	689.90	670.60	674.70	673.77	646.99	676.57	668.88
667.89	614.80	670.63	647.22	673.81	616.96	676.63	686.53
667.93	614.72	670.68	599.22	673.82	704.22	676.70	621.28
667.97	686.12	670.72	668.13	673.85	649.30	676.71	654.32
667.98	604.48	670.80	642.28	673.87	647.87	676.76	694.36
668.01	613.65	670.84	615.18	673.95	643.27	676.82	704.85
668.09	658.07	670.85	673.25	674.01	559.50	676.84	628.57
668.10	647.88	670.86	653.21	674.06	654.04	676.88	645.42
668.11	647.75	670.90	689.55	674.07	653.51	676.91	657.29
668.12	683.53	670.91	652.50	674.14	684.27	676.95	650.76
668.13	599.02	670.92	670.74	674.17	653.64	676.96	655.37
668.25	651.92	670.96	614.90	674.18	679.86	677.05	655.01
668.27	649.43	670.97	614.47	674.29	654.77	677.14	601.24
668.32	682.70	671.05	652.28	674.31	685.02	677.29	601.65
668.39	640.01	671.22	651.69	674.32	653.87	677.33	669.95
668.40	639.92	671.26	653.51	674.37	653.83	677.35	653.24
668.41	644.76	671.30	625.08	674.41	598.60	677.39	652.15
668.44	615.07	671.39	653.29	674.53	688.98	677.42	653.60

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
677.48	653.30	680.26	651.12	683.40	627.71	686.70	656.32
677.59	685.72	680.27	692.07	683.42	657.68	686.75	619.58
677.61	694.66	680.34	672.83	683.43	697.90	686.81	655.69
677.66	654.03	680.38	670.71	683.44	655.70	686.89	615.59
677.70	628.46	680.40	696.01	683.51	695.17	687.06	616.22
677.81	559.91	680.50	669.62	683.70	689.01	687.12	657.28
677.83	558.10	680.71	656.10	683.75	653.10	687.22	617.57
677.97	601.82	680.73	703.32	683.82	670.05	687.25	691.55
678.06	646.25	680.76	652.01	683.90	672.41	687.43	616.73
678.11	653.53	680.82	668.30	683.92	667.77	687.56	655.57
678.13	670.50	680.96	668.88	684.01	671.08	687.58	702.34
678.15	561.71	680.98	667.66	684.13	655.34	687.60	699.26
678.21	686.95	681.02	670.52	684.26	617.97	687.66	654.88
678.27	694.43	681.26	655.76	684.29	672.19	687.67	686.54
678.35	616.84	681.32	697.85	684.31	699.14	687.82	700.76
678.39	661.50	681.33	674.14	684.33	679.63	687.90	673.73
678.42	650.49	681.38	692.95	684.34	616.28	688.01	670.77
678.43	689.47	681.39	671.03	684.35	644.58	688.02	657.70
678.48	690.52	681.40	601.45	684.46	698.40	688.15	614.42
678.50	673.48	681.46	689.82	684.50	684.01	688.16	679.46
678.56	616.28	681.58	697.49	684.62	616.25	688.19	675.74
678.65	674.51	681.62	669.74	684.67	700.46	688.42	603.25
678.67	694.52	681.68	566.08	684.73	656.47	688.46	616.25
678.69	686.33	681.69	656.28	684.81	617.51	688.51	658.11
678.72	561.11	681.75	671.87	684.85	672.18	688.62	615.47
678.76	644.76	681.87	651.86	684.94	675.70	688.77	688.85
678.77	694.19	681.90	619.41	684.97	659.60	688.78	618.92
678.78	694.70	681.92	657.36	685.03	625.94	688.85	605.27
678.83	675.76	682.01	650.16	685.10	617.60	688.93	655.85
678.87	650.75	682.09	670.76	685.34	699.43	689.04	655.66
678.89	688.00	682.13	671.09	685.35	656.24	689.16	618.41
678.91	670.84	682.22	697.58	685.36	671.05	689.28	680.16
678.94	669.57	682.28	644.12	685.39	657.87	689.45	659.35
678.96	650.92	682.31	603.19	685.41	648.10	689.47	657.87
678.97	666.65	682.33	696.04	685.43	668.30	689.52	660.58
679.03	651.51	682.38	671.36	685.50	643.36	689.62	656.57
679.13	671.15	682.42	675.22	685.51	655.78	689.65	645.42
679.15	601.10	682.44	674.07	685.52	656.84	689.69	674.39
679.25	669.18	682.49	671.96	685.56	604.45	689.82	618.84
679.28	559.68	682.52	698.80	685.60	657.61	689.88	659.71
679.31	684.59	682.56	616.02	685.69	631.96	690.13	657.21
679.40	651.24	682.60	656.83	685.76	616.18	690.40	656.78
679.57	671.54	682.66	636.22	685.79	691.54	690.45	675.09
679.58	670.70	682.69	601.17	685.81	658.32	690.62	617.21
679.59	656.32	682.70	602.04	685.92	601.26	690.71	675.37
679.61	671.66	682.72	649.36	686.21	657.91	690.73	615.14
679.62	683.78	682.75	656.53	686.25	654.16	690.79	703.22
679.67	673.24	682.81	602.74	686.29	656.73	690.91	616.66
679.73	650.91	682.86	656.83	686.31	672.64	690.92	658.47
679.74	668.90	682.93	709.80	686.34	617.70	691.01	616.27
679.75	679.37	682.95	658.37	686.36	694.04	691.08	701.78
679.92	559.36	682.96	698.37	686.41	648.93	691.11	675.18
679.97	651.17	683.06	671.57	686.51	657.80	691.13	702.27
680.00	675.37	683.08	620.19	686.53	616.14	691.32	660.18
680.09	708.19	683.21	652.76	686.57	671.39	691.34	616.66
680.15	654.81	683.26	651.72	686.60	700.75	691.37	675.46
680.16	615.65	683.32	644.21	686.63	650.91	691.39	616.63
680.18	654.99	683.33	655.15	686.64	615.49	691.43	605.12
680.23	560.97	683.34	681.51	686.66	617.80	691.52	661.07
680.24	656.58	683.39	674.41	686.68	660.49	691.53	701.43

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
691.57	670.89	696.24	674.50	702.60	692.77	710.25	658.19
691.60	656.64	696.25	673.75	702.74	659.15	710.30	621.61
691.61	616.87	696.31	672.19	703.09	699.84	710.37	617.29
691.64	619.14	696.42	619.16	703.13	674.62	710.39	660.62
691.70	606.89	696.51	705.84	703.17	674.77	711.26	715.05
691.78	707.14	696.62	662.51	703.29	692.87	711.39	664.91
691.79	657.94	696.68	719.36	703.32	709.89	711.48	715.61
691.94	694.92	696.69	677.06	703.35	675.14	711.52	620.00
692.00	660.46	697.12	673.51	703.61	661.59	711.59	664.13
692.06	561.53	697.29	678.78	703.63	621.37	711.62	697.57
692.07	660.11	697.45	657.51	703.89	723.53	712.08	716.18
692.10	606.25	697.55	704.43	704.01	703.42	712.24	666.89
692.17	659.64	697.73	609.80	704.41	709.98	712.32	668.12
692.18	562.04	697.77	706.76	704.48	681.75	712.35	666.19
692.19	616.73	697.84	720.10	704.52	711.04	712.37	702.26
692.35	702.96	698.05	719.21	704.63	709.92	712.41	669.24
692.37	660.15	698.27	610.49	704.75	671.99	712.61	666.50
692.38	705.55	698.38	662.32	704.84	724.79	712.77	667.63
692.43	615.44	698.46	664.29	705.09	676.42	712.86	667.78
692.44	660.60	698.48	708.10	705.37	724.55	713.18	667.54
692.51	619.77	698.49	708.00	705.44	664.91	713.26	687.44
692.54	604.09	698.55	661.12	705.47	662.36	713.34	717.30
692.74	698.50	698.68	681.39	705.58	617.69	713.40	661.30
692.81	657.05	698.81	676.79	705.62	708.92	713.41	680.72
692.85	615.34	698.83	662.30	705.70	617.07	713.55	710.58
692.88	653.13	698.84	674.14	705.74	673.62	713.56	675.68
692.93	658.95	698.86	658.12	705.77	675.43	713.75	715.93
692.94	658.37	698.98	656.19	705.91	665.97	713.91	563.88
693.02	615.93	699.29	699.97	706.04	719.33	714.07	688.19
693.08	619.13	699.40	679.74	706.31	620.50	714.21	667.89
693.11	703.77	699.42	679.46	706.44	713.12	714.77	666.73
693.17	616.57	699.43	659.91	706.45	664.80	714.78	680.64
693.20	663.27	699.52	619.54	706.56	725.31	714.81	675.06
693.21	660.11	699.57	708.30	707.38	712.96	715.16	669.03
693.25	693.04	699.63	661.38	707.84	708.09	715.19	667.87
693.32	704.56	699.66	720.28	707.94	714.09	715.32	663.88
693.40	673.55	699.96	672.74	708.10	618.38	715.69	702.92
693.57	660.75	699.97	672.61	708.15	618.02	716.01	688.91
693.58	635.47	700.00	660.91	708.21	665.28	716.11	718.24
693.61	675.58	700.03	700.24	708.31	664.45	716.14	666.86
693.80	708.16	700.20	674.92	708.32	614.46	716.68	680.95
693.86	697.17	700.37	675.58	708.45	617.39	716.76	676.91
693.99	688.39	700.55	662.38	708.61	661.87	716.77	664.44
694.28	700.08	700.64	672.12	708.68	665.70	716.93	705.71
694.40	603.20	700.74	610.96	708.73	703.92	717.03	727.15
694.46	706.23	700.76	673.06	708.77	666.56	717.28	711.32
694.55	699.26	700.88	667.25	708.85	619.30	717.34	718.97
694.88	688.25	701.13	704.36	708.87	700.86	717.49	678.47
694.91	686.60	701.16	613.32	709.00	710.45	717.99	677.75
695.00	662.19	701.18	708.76	709.05	663.83	718.20	634.92
695.03	660.39	701.24	614.56	709.13	665.87	718.31	676.49
695.15	658.33	701.35	677.03	709.14	693.49	718.39	680.87
695.24	718.37	701.51	664.60	709.18	663.05	718.40	719.05
695.41	674.59	701.82	687.44	709.23	663.79	718.48	714.23
695.42	701.55	701.86	660.50	709.35	622.01	718.50	666.81
695.59	660.06	701.90	711.42	709.41	715.15	718.58	681.50
695.67	674.85	702.28	663.06	709.94	617.62	718.64	668.84
695.78	661.56	702.44	659.31	710.08	693.34	718.97	668.81
696.00	705.83	702.47	662.87	710.09	618.29	719.05	670.09
696.20	560.30	702.50	660.77	710.14	708.14	719.37	682.47



PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
719.42	669.17	723.80	621.27	731.42	727.48	743.87	680.13
719.43	668.92	723.93	624.92	731.88	717.92	743.98	736.67
719.44	677.71	724.72	679.19	733.09	725.14	744.76	736.78
719.53	669.97	724.78	723.64	733.99	685.99	745.08	676.01
719.67	720.47	724.88	677.91	734.20	716.86	745.15	688.59
719.71	677.49	725.00	672.14	734.23	675.52	746.04	677.81
719.76	683.01	725.48	671.61	734.25	735.24	746.41	737.98
719.87	679.24	725.58	721.76	734.60	674.79	747.80	636.96
720.41	711.99	725.62	710.75	734.84	675.88	748.46	730.30
720.48	682.20	726.47	625.85	735.30	686.06	751.07	681.49
720.49	668.28	726.52	621.94	737.81	677.73	758.82	691.38
721.21	679.69	726.84	626.16	738.56	681.56	760.60	756.12
722.02	736.92	726.86	671.81	738.70	682.45	761.87	689.16
722.13	682.53	726.89	667.58	738.76	686.44	762.23	690.39
722.20	708.87	727.30	684.90	738.93	688.24	763.62	684.91
722.21	667.61	727.39	723.71	739.70	673.15	763.68	693.84
722.39	676.46	727.48	671.47	741.29	742.75	763.77	687.88
722.45	670.44	727.94	740.40	741.41	681.83	763.99	693.90
722.51	677.57	728.21	621.44	741.56	676.12	764.17	692.56
722.71	678.99	728.57	630.14	741.64	703.04	774.40	756.12
722.77	682.03	728.87	622.64	741.74	682.81	785.83	700.08
722.80	678.50	729.17	703.04	742.08	678.77		
722.89	672.01	729.81	720.12	742.18	687.81		
722.93	678.92	730.04	674.57	742.65	673.37		
722.99	736.74	730.38	671.38	743.09	735.69		
723.41	681.15	730.56	741.62	743.11	680.89		
723.48	669.11	730.87	673.01	743.39	680.47		
723.65	624.46	731.41	674.31	743.48	690.49		

## Appendix H

## Score Conversion Tables from Concurrent Calibrations – Science as Major and Minor

## Domains

Table H.1

Original PISA score (PV1) to new score

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
131.24	439.90	265.70	493.18	295.36	508.87	314.85	501.74
175.07	429.73	266.45	669.86	296.01	474.78	314.94	653.11
193.06	492.29	267.20	553.04	297.22	521.70	315.22	480.52
193.72	512.04	268.31	422.82	297.97	434.07	315.31	511.32
201.27	415.26	268.41	452.85	298.06	597.28	315.59	587.58
203.04	670.53	269.25	408.92	298.25	458.26	315.68	497.79
205.65	653.85	269.34	544.26	298.43	541.86	315.87	599.87
205.74	531.88	271.11	446.48	298.90	456.40	316.06	541.55
212.46	392.95	273.35	473.06	299.09	590.23	317.46	495.00
216.09	458.04	274.75	535.13	299.83	403.66	317.74	392.42
217.96	638.17	274.84	406.69	299.93	572.18	317.83	530.24
219.73	542.58	275.03	434.59	300.02	603.36	318.67	510.22
221.04	511.13	277.64	529.18	300.11	502.39	319.51	444.71
224.30	470.09	278.94	384.10	301.88	581.29	319.60	617.31
226.35	577.10	279.78	423.39	302.54	493.04	320.35	479.38
227.10	421.18	279.88	525.46	302.63	513.56	320.44	443.85
228.50	508.88	280.44	584.85	302.82	596.04	320.53	568.03
232.04	427.47	281.09	530.00	303.47	401.20	320.72	368.58
232.88	547.65	282.30	661.83	303.75	599.16	321.19	543.37
239.41	411.10	282.58	673.27	303.84	529.55	322.21	450.43
239.69	603.62	283.14	628.88	304.49	554.13	322.31	484.05
240.62	666.78	283.23	532.98	304.68	472.11	322.40	569.82
240.99	383.51	285.75	522.82	304.96	373.96	322.49	567.84
241.64	619.82	286.03	524.88	305.80	609.49	322.58	457.39
242.58	452.55	286.40	352.74	306.83	433.53	322.68	606.31
244.07	640.86	286.96	605.02	307.29	492.26	323.24	547.52
245.93	445.80	287.90	596.35	307.48	537.96	323.33	484.92
246.87	536.44	287.99	592.36	307.76	305.92	323.42	463.93
247.80	432.59	288.18	353.48	307.85	428.64	323.52	546.32
248.73	593.57	288.83	559.67	308.13	586.19	324.17	515.34
251.25	510.59	290.13	636.42	309.06	357.25	324.26	383.14
251.72	587.04	290.69	567.52	309.16	517.37	325.20	403.24
252.37	398.20	290.79	450.52	310.28	428.56	325.29	409.38
252.65	541.15	290.97	604.12	310.56	484.36	325.38	434.65
254.61	602.50	291.35	366.80	310.93	621.75	325.85	586.23
255.17	365.29	291.63	530.60	311.02	494.68	326.04	451.27
256.01	548.73	292.00	373.36	311.21	399.34	326.13	473.25
257.31	621.70	292.28	569.18	311.49	403.95	326.22	544.61
258.34	539.75	292.47	670.84	312.14	640.70	326.78	389.78
258.99	290.87	292.84	479.76	312.89	576.71	327.34	434.96
262.44	456.76	293.21	591.31	312.98	364.08	327.71	664.46
262.72	479.95	293.49	520.61	313.07	446.17	327.81	523.76
263.37	619.04	293.77	664.44	313.73	334.09	327.99	553.42
264.40	480.73	294.14	466.54	314.01	456.39	328.27	582.66
264.77	417.51	294.42	492.01	314.10	454.37	328.65	318.50
265.33	514.36	294.52	551.44	314.19	559.38	328.93	542.62
265.52	545.46	294.61	505.47	314.66	557.52	329.30	511.73

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
329.86	534.66	343.85	525.41	355.32	597.04	367.25	331.50
329.95	405.84	344.03	393.21	355.69	318.66	367.44	576.58
330.23	422.68	344.22	593.98	355.87	577.76	367.53	402.04
330.51	421.17	344.50	416.93	355.97	531.43	367.81	529.24
330.79	566.56	344.68	501.32	356.34	537.31	367.90	419.74
331.16	538.15	344.78	551.38	356.62	392.73	368.00	539.94
331.44	570.32	345.06	475.00	356.71	541.06	368.09	380.94
331.54	596.58	345.43	551.59	356.90	572.26	368.18	448.08
331.72	691.66	345.62	606.68	357.18	611.27	368.28	491.67
331.82	542.60	345.71	418.05	357.27	472.37	368.37	506.74
331.91	486.81	345.80	472.08	357.55	399.05	368.46	513.31
332.00	357.00	345.90	416.97	357.65	548.35	368.74	269.75
332.66	440.96	345.99	531.94	357.74	609.70	368.93	502.19
332.75	479.03	346.36	507.22	358.11	539.22	369.02	495.92
333.31	387.44	346.64	568.98	358.21	427.61	369.21	455.74
333.59	707.58	346.92	383.14	358.49	358.86	369.30	504.11
333.77	388.27	347.30	624.47	358.67	322.33	369.68	532.42
334.24	439.56	347.58	552.15	358.77	540.95	369.77	425.42
334.89	387.02	347.95	560.54	358.86	631.92	369.96	475.21
335.17	514.99	348.23	604.18	358.95	601.78	370.14	411.88
335.27	448.26	348.51	541.15	359.14	597.81	370.24	359.13
335.45	507.99	348.60	574.09	359.42	412.54	370.33	336.44
335.55	652.01	349.44	494.59	359.70	443.94	370.61	535.67
335.64	531.55	349.63	439.98	359.98	367.53	370.70	612.22
336.29	499.94	349.72	622.72	360.44	520.78	370.79	482.26
336.39	614.91	350.09	405.36	360.54	483.82	370.89	602.68
336.48	526.20	350.19	550.99	360.63	654.81	370.98	406.10
336.67	609.51	350.28	501.61	360.91	656.00	371.07	520.07
337.04	537.91	350.37	584.29	361.28	350.73	371.17	512.39
337.13	566.46	350.47	561.25	361.47	464.09	371.54	614.67
337.32	460.99	350.56	571.80	361.56	527.31	371.63	532.99
337.97	418.05	350.65	580.39	361.75	310.76	371.82	391.67
338.06	511.31	351.03	477.59	362.22	508.37	372.01	520.03
338.25	561.56	351.12	464.12	362.31	579.60	372.19	542.70
338.53	481.85	351.31	454.59	362.50	374.74	372.47	563.03
338.90	497.14	351.40	437.29	362.68	551.11	372.66	434.10
339.18	540.02	351.49	520.32	363.15	512.68	372.75	511.12
339.28	532.50	351.59	668.77	363.24	395.49	372.85	510.04
339.37	532.91	351.68	438.91	363.43	640.15	373.13	494.59
339.93	518.65	351.96	603.96	363.52	571.67	373.41	550.64
340.02	600.36	352.14	600.78	363.61	362.80	373.69	449.92
340.12	664.75	352.24	423.65	363.71	425.74	373.78	463.52
340.40	421.79	352.33	647.13	364.08	557.88	373.96	534.20
340.95	561.57	352.42	514.53	364.17	633.84	374.06	508.63
341.05	388.29	352.61	351.60	364.36	406.47	374.34	531.58
341.23	600.97	352.89	324.78	364.64	473.98	374.43	555.44
341.42	478.43	353.17	541.05	365.01	433.49	374.52	543.86
341.70	567.99	353.36	443.06	365.29	433.07	374.62	594.07
341.89	589.36	353.45	436.60	365.39	465.00	374.71	543.31
341.98	597.41	353.82	531.18	365.48	465.84	374.80	527.66
342.07	596.38	354.10	383.36	365.57	640.07	374.90	531.52
342.17	522.26	354.20	376.82	365.95	482.54	375.27	596.82
342.35	555.42	354.29	354.23	366.04	555.69	375.36	358.68
342.63	387.47	354.38	663.04	366.13	568.26	375.55	547.41
342.73	592.68	354.48	622.79	366.23	462.51	375.83	505.06
342.91	551.17	354.76	602.55	366.32	480.10	375.92	589.39
343.10	559.81	354.85	416.39	366.41	659.89	376.48	494.41
343.19	480.48	354.94	366.95	366.51	592.50	376.67	412.01
343.57	545.92	355.04	605.74	366.88	536.74	377.14	668.26
343.75	453.06	355.22	500.00	367.16	409.93	377.42	434.77

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
377.51	413.90	387.02	652.17	395.23	294.29	404.55	511.71
377.60	471.91	387.11	458.54	395.51	552.70	404.64	452.06
377.69	608.77	387.39	442.72	396.06	480.16	404.74	484.80
377.79	437.60	387.49	390.85	396.25	581.20	405.11	497.08
378.07	550.78	387.67	593.87	396.34	440.36	405.20	464.00
378.16	480.92	387.77	540.39	396.44	348.29	405.30	582.53
378.25	315.95	387.86	453.49	396.72	602.69	405.39	479.92
378.35	528.28	387.95	536.44	396.81	626.96	405.48	555.33
378.44	428.88	388.05	301.62	396.90	404.30	405.58	505.75
378.53	430.34	388.33	412.20	397.00	440.81	405.67	628.37
378.63	407.60	388.42	586.14	397.09	462.95	406.04	592.70
379.19	483.42	388.51	548.10	397.18	679.54	406.14	433.72
379.28	494.43	388.61	479.97	397.37	528.14	406.23	524.68
379.47	487.41	388.70	352.74	397.65	542.47	406.32	486.48
379.93	450.86	388.79	501.04	397.74	504.40	406.42	548.41
380.12	593.23	388.88	612.63	397.84	627.12	406.51	405.82
380.21	442.25	388.98	492.11	397.93	305.74	406.60	497.27
380.31	610.86	389.26	557.39	398.12	533.48	406.98	613.97
380.49	500.55	389.35	668.31	398.21	395.36	407.07	575.05
380.59	429.50	389.44	506.30	398.58	387.67	407.16	423.28
380.87	577.93	389.54	647.12	398.68	537.93	407.25	494.68
381.05	527.18	389.72	451.30	398.77	578.06	407.35	474.22
381.15	406.59	389.82	432.56	398.86	660.46	407.63	524.65
381.33	510.78	389.91	391.34	398.96	589.78	407.91	582.86
381.42	597.33	390.19	613.27	399.05	500.00	408.00	452.69
381.52	509.33	390.38	620.02	399.14	554.70	408.09	649.90
381.80	627.25	390.47	493.96	399.24	542.93	408.19	589.62
381.98	542.06	390.56	452.14	399.52	615.85	408.37	569.39
382.08	462.03	390.66	413.90	399.61	406.06	408.47	440.86
382.17	561.51	391.22	569.25	399.70	419.05	408.56	372.35
382.26	539.06	391.31	451.53	399.79	586.47	408.84	487.51
382.36	649.78	391.40	582.97	399.98	535.87	408.93	603.50
382.45	649.22	391.50	646.17	400.17	355.18	409.12	448.13
382.73	498.74	391.59	516.07	400.45	521.72	409.21	575.11
383.01	525.09	391.68	572.57	400.63	470.69	409.31	467.74
383.10	568.98	391.78	329.56	400.73	593.38	409.77	526.34
383.20	698.40	392.06	656.98	400.91	342.13	409.87	482.68
383.29	513.30	392.15	471.71	401.01	390.58	410.05	489.30
383.38	529.76	392.24	577.28	401.38	667.21	410.33	565.15
383.66	413.42	392.33	421.73	401.47	487.75	410.43	684.66
383.85	338.89	392.43	544.98	401.66	491.17	410.80	532.00
383.94	492.61	392.52	536.65	401.75	548.53	410.89	446.79
384.13	494.82	392.61	590.48	401.85	418.58	410.98	606.89
384.22	530.75	392.99	533.65	401.94	453.46	411.08	290.51
384.60	572.63	393.17	576.79	402.03	532.18	411.17	437.12
384.78	324.71	393.27	547.72	402.31	434.53	411.26	498.05
384.88	483.09	393.36	458.50	402.50	608.54	411.36	461.36
384.97	573.89	393.45	445.15	402.59	424.62	411.64	537.71
385.06	538.83	393.55	494.92	402.97	381.00	411.92	324.37
385.25	533.38	393.92	469.00	403.25	389.54	412.01	503.54
385.71	393.76	394.01	464.60	403.34	489.07	412.10	469.00
385.81	388.43	394.11	543.87	403.43	452.36	412.29	462.95
385.90	564.77	394.20	495.85	403.52	489.03	412.57	576.04
385.99	402.84	394.29	646.20	403.62	545.38	412.66	610.83
386.09	368.23	394.39	415.39	403.80	535.30	412.76	643.62
386.18	281.79	394.48	578.62	403.90	404.26	412.85	508.88
386.65	589.84	394.57	466.46	404.18	373.79	412.94	656.96
386.74	428.96	394.85	632.04	404.27	496.55	413.04	546.09
386.83	559.04	394.95	444.67	404.36	526.68	413.13	460.74
386.93	456.39	395.13	588.27	404.46	723.89	413.50	595.80

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
413.60	653.80	421.34	592.20	428.80	436.82	436.81	420.01
413.69	565.89	421.43	444.66	428.89	520.49	436.91	542.20
413.78	554.80	421.52	427.73	429.08	380.44	437.00	422.82
413.88	502.64	421.62	507.56	429.35	304.76	437.09	425.24
413.97	567.69	421.89	495.68	429.45	529.03	437.19	469.45
414.06	492.39	421.99	425.88	429.54	428.08	437.28	479.61
414.16	505.42	422.08	499.82	429.63	383.85	437.47	581.42
414.43	536.56	422.17	559.35	429.73	572.82	437.75	497.19
414.53	465.22	422.27	430.03	429.82	550.25	437.84	485.57
414.62	416.80	422.36	593.10	429.91	560.54	437.93	599.16
414.71	637.98	422.45	599.34	430.01	410.74	438.03	537.27
414.90	591.02	422.55	488.06	430.29	382.48	438.12	566.32
414.99	647.74	422.83	590.74	430.38	434.44	438.21	466.09
415.37	683.56	422.92	480.10	430.47	591.29	438.31	407.40
415.55	547.64	423.01	526.02	430.57	488.00	438.68	485.41
415.65	531.38	423.11	581.65	430.66	425.14	438.77	654.49
415.83	466.08	423.29	462.70	430.75	521.90	438.87	434.32
415.93	569.24	423.39	432.32	430.85	471.67	438.96	376.41
416.02	575.72	423.48	526.35	431.22	493.01	439.05	540.06
416.30	718.97	423.76	513.68	431.31	487.66	439.24	553.91
416.39	498.64	423.85	490.00	431.41	574.31	439.33	632.09
416.49	388.56	423.95	389.15	431.50	469.03	439.61	615.69
416.58	747.31	424.04	392.57	431.59	581.92	439.71	474.17
416.67	670.79	424.13	548.42	431.69	518.92	439.89	466.79
416.77	497.40	424.32	503.03	431.87	597.05	439.99	621.97
416.86	651.58	424.41	549.02	432.15	490.74	440.08	570.61
416.95	612.11	424.69	419.99	432.25	544.63	440.17	635.74
417.23	462.22	424.79	620.56	432.34	489.65	440.26	331.21
417.33	568.67	424.97	489.30	432.43	559.90	440.54	512.62
417.42	415.66	425.07	584.60	432.53	458.14	440.64	450.02
417.51	672.72	425.16	458.86	432.62	612.81	440.73	369.68
417.79	609.19	425.25	548.30	432.71	643.08	440.82	476.33
417.89	681.98	425.35	447.44	432.80	406.70	440.92	417.86
418.16	423.05	425.62	517.58	433.08	587.93	441.10	588.90
418.26	498.95	425.72	321.53	433.18	504.26	441.20	447.62
418.35	377.69	425.81	538.31	433.27	533.11	441.48	454.97
418.44	513.01	425.90	629.22	433.36	555.50	441.66	659.43
418.54	617.83	426.00	565.72	433.46	604.52	441.76	452.03
418.63	507.75	426.18	435.24	433.55	477.06	441.85	682.93
418.72	514.70	426.28	564.25	433.64	388.45	441.94	285.55
418.82	597.14	426.56	534.68	433.74	674.57	442.04	607.89
419.10	683.45	426.65	522.89	434.02	593.59	442.13	508.71
419.19	455.85	426.74	495.91	434.11	520.46	442.41	496.69
419.38	556.83	426.84	527.22	434.20	561.71	442.50	354.24
419.47	587.48	426.93	577.08	434.30	608.19	442.69	488.21
419.56	573.61	427.02	403.79	434.39	594.01	442.78	512.61
419.66	537.46	427.12	576.01	434.48	701.80	442.88	542.16
419.75	605.05	427.21	372.40	434.67	611.71	443.06	391.58
420.03	550.91	427.49	375.19	434.95	537.34	443.34	310.17
420.12	520.55	427.58	620.26	435.04	581.45	443.44	356.53
420.22	505.14	427.68	349.29	435.14	521.86	443.53	532.48
420.31	553.27	427.77	455.93	435.23	582.95	443.62	627.11
420.40	454.86	427.86	552.57	435.32	394.50	443.81	396.84
420.50	592.90	427.96	401.67	435.88	400.22	443.90	524.17
420.59	645.17	428.05	543.30	435.98	578.77	443.99	661.07
420.68	633.87	428.14	549.40	436.07	542.66	444.27	508.65
420.96	441.84	428.42	389.65	436.16	513.38	444.37	672.96
421.06	523.77	428.52	435.47	436.26	522.51	444.46	595.12
421.15	451.55	428.61	353.58	436.44	538.82	444.55	644.35
421.24	460.33	428.70	331.42	436.53	387.91	444.65	502.13

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
444.74	600.97	452.20	538.89	459.75	635.92	467.59	430.25
444.83	550.50	452.29	390.89	459.85	548.47	467.68	597.29
444.93	409.12	452.67	459.22	460.13	469.45	467.77	465.69
445.21	596.80	452.76	540.03	460.22	550.96	467.87	496.04
445.30	516.61	452.85	442.53	460.31	537.71	467.96	564.07
445.39	555.70	452.95	650.42	460.41	475.04	468.05	637.58
445.49	607.24	453.04	522.88	460.50	526.92	468.15	432.49
445.58	581.54	453.13	627.22	460.59	507.47	468.24	595.38
445.77	357.18	453.23	554.81	460.69	541.89	468.52	412.74
445.86	409.47	453.32	541.48	460.78	435.00	468.71	521.81
446.14	527.19	453.60	520.92	461.06	702.34	468.80	420.71
446.23	561.35	453.69	459.89	461.15	409.85	468.89	355.71
446.33	626.50	453.79	496.29	461.25	314.51	468.99	480.46
446.42	530.49	453.88	596.37	461.34	436.01	469.17	509.68
446.51	522.30	453.97	481.67	461.53	503.78	469.45	431.11
446.61	475.77	454.07	475.64	461.62	509.56	469.54	626.17
446.70	339.86	454.16	460.33	461.71	521.30	469.64	335.56
446.79	485.83	454.53	520.37	461.99	596.06	469.73	549.19
447.07	521.95	454.72	318.08	462.09	597.25	469.82	375.29
447.26	472.11	454.81	424.47	462.18	380.38	469.92	595.89
447.35	289.73	454.90	549.94	462.27	449.35	470.01	656.00
447.45	663.58	455.00	582.24	462.36	623.43	470.10	464.41
447.54	474.62	455.09	405.21	462.46	312.85	470.38	675.85
447.63	455.55	455.18	515.96	462.55	433.46	470.48	586.98
447.72	366.86	455.46	447.39	462.64	568.78	470.57	652.15
448.00	595.92	455.56	408.37	462.92	287.24	470.66	457.40
448.10	468.34	455.65	467.85	463.02	578.74	470.76	659.95
448.19	581.30	455.74	675.68	463.20	534.58	470.85	456.50
448.28	608.85	455.84	595.76	463.30	562.68	470.94	622.83
448.38	633.39	455.93	453.42	463.39	531.65	471.04	549.81
448.47	424.07	456.02	576.16	463.58	384.24	471.32	581.52
448.56	625.84	456.12	517.44	463.86	536.57	471.41	580.61
448.66	547.01	456.40	574.47	464.04	533.26	471.50	367.26
448.94	573.39	456.49	470.71	464.14	649.81	471.60	447.23
449.03	495.62	456.58	534.59	464.23	498.98	471.69	593.11
449.12	622.89	456.68	445.40	464.32	648.24	471.78	640.08
449.22	515.76	456.77	560.48	464.42	599.25	471.88	548.01
449.31	552.61	456.86	462.57	464.51	529.88	471.97	545.24
449.40	439.29	456.96	463.38	464.79	516.28	472.25	565.44
449.50	627.45	457.05	510.36	464.98	337.04	472.34	505.52
449.59	479.57	457.33	496.49	465.07	631.08	472.53	611.64
449.87	608.99	457.42	434.24	465.26	487.91	472.62	517.69
449.96	405.03	457.52	380.16	465.35	494.11	472.72	395.85
450.06	663.64	457.61	586.81	465.44	409.03	472.81	445.10
450.15	532.02	457.70	357.37	465.72	434.58	473.18	539.67
450.24	662.38	457.80	494.11	465.82	356.22	473.37	603.14
450.34	381.90	457.98	555.29	465.91	510.68	473.46	454.32
450.43	578.42	458.26	535.57	466.00	416.25	473.55	467.80
450.52	344.72	458.36	570.08	466.09	361.69	473.65	537.12
450.80	612.13	458.45	637.94	466.19	502.66	473.74	543.09
450.99	560.69	458.54	486.99	466.28	486.24	473.83	443.98
451.08	540.94	458.63	442.82	466.37	416.62	474.11	591.79
451.17	529.19	458.73	480.16	466.65	687.84	474.30	578.35
451.27	554.49	458.91	612.43	466.75	518.74	474.39	571.76
451.36	638.13	459.19	661.45	466.84	444.38	474.49	502.84
451.45	556.86	459.29	567.43	466.93	667.20	474.58	402.75
451.73	449.84	459.38	428.22	467.03	458.76	474.67	553.71
451.92	569.38	459.47	399.24	467.12	533.78	474.77	553.63
452.01	465.34	459.57	429.10	467.21	532.94	475.05	541.57
452.11	379.20	459.66	491.63	467.31	496.07	475.14	600.40

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
475.33	530.02	482.88	506.29	490.43	587.95	497.61	440.24
475.42	522.75	482.97	434.97	490.53	442.57	497.71	587.33
475.51	396.66	483.07	394.08	490.62	489.22	497.80	405.83
475.61	639.66	483.16	534.65	490.90	505.68	497.89	593.08
475.70	580.93	483.44	435.61	490.99	299.92	497.99	319.61
475.98	599.08	483.53	400.30	491.09	502.48	498.08	435.15
476.17	489.02	483.63	616.55	491.18	551.45	498.36	627.02
476.26	461.23	483.72	560.17	491.27	558.81	498.45	621.18
476.35	497.99	483.81	532.81	491.37	447.25	498.55	398.60
476.45	492.85	483.91	559.14	491.55	363.82	498.64	453.67
476.54	541.20	484.00	541.38	491.83	427.54	498.73	545.11
476.63	555.99	484.09	407.11	491.92	407.27	498.83	419.43
476.91	390.72	484.37	368.69	492.02	584.69	498.92	511.05
477.00	579.51	484.46	613.92	492.11	468.96	499.01	593.23
477.19	466.37	484.56	526.59	492.20	413.62	499.29	528.49
477.28	533.84	484.65	381.25	492.30	544.83	499.38	331.80
477.47	634.63	484.74	394.51	492.39	433.55	499.48	387.70
477.56	422.60	484.84	650.19	492.48	446.70	499.57	610.35
477.84	538.38	484.93	482.55	492.76	503.92	499.66	523.62
477.94	428.41	485.02	610.97	492.86	505.54	499.76	683.46
478.03	471.87	485.30	407.06	492.95	600.48	499.85	538.81
478.12	509.80	485.40	553.82	493.04	516.70	499.94	486.24
478.22	604.60	485.49	560.20	493.14	351.44	500.22	544.84
478.31	358.99	485.58	578.00	493.23	506.44	500.32	607.07
478.40	647.05	485.68	594.44	493.32	426.91	500.41	617.38
478.50	351.56	485.86	573.67	493.42	549.96	500.50	694.06
478.78	509.85	485.96	505.08	493.70	485.13	500.60	480.91
478.87	401.19	486.24	456.61	493.79	443.99	500.69	425.71
478.96	470.63	486.33	607.39	493.88	524.28	500.78	502.68
479.06	415.56	486.52	508.23	493.98	542.02	500.88	466.30
479.15	396.84	486.61	293.70	494.07	429.14	501.16	653.12
479.24	357.30	486.70	503.63	494.16	500.89	501.25	662.08
479.43	490.28	486.80	540.87	494.26	456.53	501.34	597.44
479.71	603.58	486.89	352.54	494.35	535.15	501.44	530.25
479.80	305.60	487.17	560.85	494.63	502.26	501.53	498.39
479.90	569.74	487.26	466.17	494.72	617.47	501.62	437.79
479.99	504.57	487.45	560.30	494.82	372.13	501.72	485.00
480.08	487.73	487.54	472.57	494.91	423.57	501.81	608.64
480.18	408.97	487.64	316.91	495.00	566.30	502.09	616.68
480.27	432.38	487.73	513.70	495.10	553.83	502.18	459.21
480.36	390.92	487.82	578.26	495.19	397.41	502.37	368.53
480.64	628.71	488.10	365.97	495.28	520.08	502.46	509.46
480.73	521.16	488.19	541.74	495.56	515.52	502.56	460.18
480.83	595.48	488.29	484.00	495.65	499.90	502.65	577.62
480.92	545.10	488.38	359.60	495.75	489.34	502.74	467.22
481.01	483.64	488.47	650.12	495.84	467.82	503.02	597.48
481.20	573.30	488.57	458.35	495.93	480.72	503.11	592.69
481.29	580.49	488.66	461.45	496.03	585.03	503.21	427.26
481.57	422.71	488.75	498.27	496.12	663.10	503.30	485.78
481.67	512.52	489.03	683.51	496.21	534.79	503.39	441.45
481.76	390.62	489.13	399.98	496.49	460.67	503.49	504.99
481.85	625.74	489.31	583.74	496.59	584.40	503.58	617.26
481.95	374.92	489.41	622.71	496.68	354.98	503.67	690.49
482.04	569.61	489.50	488.58	496.77	453.43	503.95	623.52
482.13	501.44	489.69	574.19	496.87	438.77	504.05	273.54
482.23	399.34	489.97	615.70	496.96	432.90	504.14	590.22
482.51	406.68	490.06	506.37	497.05	609.45	504.23	507.22
482.60	514.31	490.15	491.45	497.15	491.97	504.33	304.44
482.69	503.14	490.25	480.30	497.43	332.98	504.42	435.15
482.79	498.55	490.34	477.28	497.52	530.18	504.51	587.49

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
504.61	256.21	511.88	530.74	519.06	550.63	526.05	626.38
504.89	653.24	511.97	488.32	519.15	413.70	526.33	536.38
504.98	470.23	512.07	548.79	519.25	501.92	526.43	605.65
505.07	330.78	512.35	418.07	519.34	336.12	526.52	618.49
505.17	534.47	512.44	571.50	519.43	455.49	526.61	492.62
505.26	406.35	512.53	536.12	519.53	636.13	526.71	442.86
505.35	573.59	512.63	467.08	519.81	572.96	526.80	613.52
505.45	422.43	512.72	439.84	519.90	485.31	526.89	596.47
505.54	593.97	512.81	573.79	519.99	506.99	526.99	570.39
505.82	515.35	512.91	525.77	520.09	443.84	527.27	621.95
505.91	321.75	513.00	656.00	520.18	642.82	527.36	513.20
506.01	331.81	513.28	443.39	520.27	505.37	527.45	448.01
506.10	550.25	513.37	684.90	520.37	590.80	527.55	460.49
506.19	484.25	513.47	392.34	520.46	462.02	527.64	425.15
506.29	490.22	513.56	449.16	520.74	454.79	527.73	502.18
506.38	637.16	513.65	671.56	520.83	562.48	527.83	680.82
506.47	504.51	513.74	697.49	520.93	548.21	527.92	307.87
506.75	630.52	513.84	555.37	521.02	705.51	528.20	615.68
506.84	662.83	513.93	446.56	521.11	552.80	528.29	578.88
506.94	520.90	514.21	431.29	521.20	607.19	528.38	309.16
507.03	507.93	514.30	406.80	521.30	347.90	528.48	350.63
507.12	346.61	514.40	442.65	521.39	472.55	528.57	420.64
507.22	343.08	514.49	756.12	521.67	604.55	528.66	420.98
507.31	336.96	514.58	491.45	521.76	445.39	528.76	496.90
507.40	513.12	514.68	338.00	521.86	529.39	528.85	597.93
507.68	479.17	514.77	443.54	521.95	601.48	529.13	472.67
507.78	511.14	514.86	419.20	522.04	530.16	529.22	495.01
507.87	554.01	515.14	502.04	522.14	623.87	529.32	429.10
507.96	545.19	515.24	568.38	522.23	387.72	529.41	500.12
508.06	533.62	515.33	457.97	522.32	408.36	529.50	431.87
508.15	455.96	515.42	478.15	522.60	588.69	529.60	592.62
508.24	546.08	515.52	500.03	522.70	605.26	529.69	619.24
508.34	441.15	515.61	399.52	522.79	487.41	529.78	575.16
508.62	541.43	515.70	517.68	522.88	515.67	530.06	476.33
508.71	442.11	515.80	609.19	522.98	599.00	530.16	477.43
508.80	421.37	516.08	541.65	523.07	637.46	530.25	546.32
508.90	418.76	516.17	524.56	523.16	511.93	530.34	601.83
508.99	640.01	516.26	331.90	523.26	475.36	530.44	563.75
509.08	578.26	516.36	468.50	523.54	378.61	530.53	344.42
509.18	434.50	516.45	672.01	523.63	422.25	530.62	615.54
509.27	629.46	516.54	557.13	523.72	430.66	530.72	528.09
509.55	548.93	516.64	511.20	523.82	443.06	531.00	605.22
509.74	619.25	516.73	624.31	523.91	477.01	531.09	489.17
509.83	453.83	517.01	552.80	524.10	587.90	531.18	463.05
509.92	559.89	517.10	526.63	524.19	633.10	531.28	589.97
510.01	529.82	517.29	583.17	524.47	537.74	531.37	431.52
510.11	558.34	517.38	494.99	524.56	446.50	531.46	508.96
510.20	327.50	517.47	413.01	524.66	492.45	531.56	518.10
510.48	350.08	517.57	423.23	524.75	570.82	531.65	509.74
510.57	354.56	517.66	431.21	524.84	585.39	531.93	573.14
510.67	468.61	517.94	597.11	524.93	561.27	532.02	627.34
510.76	409.15	518.03	668.44	525.03	480.80	532.11	521.90
510.85	453.72	518.13	454.26	525.12	657.68	532.21	496.48
510.95	648.75	518.22	459.09	525.40	626.69	532.30	392.14
511.04	571.69	518.31	617.37	525.49	466.83	532.39	587.84
511.13	451.67	518.41	361.57	525.59	465.10	532.58	498.84
511.41	404.10	518.50	431.30	525.68	496.66	532.86	545.98
511.51	635.14	518.59	453.50	525.77	364.47	533.05	547.97
511.69	357.72	518.87	485.87	525.87	412.59	533.14	549.57
511.79	445.64	518.97	247.48	525.96	563.06	533.23	503.69



PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
533.33	522.56	540.60	492.76	547.78	509.09	555.33	519.97
533.42	473.72	540.69	586.62	547.87	561.85	555.43	495.81
533.51	522.76	540.79	549.81	547.97	511.00	555.52	519.29
533.79	559.71	540.97	594.26	548.06	476.09	555.61	551.22
533.89	436.64	541.25	255.30	548.15	537.17	555.71	610.25
533.98	506.60	541.35	608.88	548.25	577.70	555.80	475.09
534.07	375.10	541.44	541.50	548.33	497.58	555.89	313.70
534.17	567.98	541.53	565.24	548.43	449.28	555.98	457.83
534.26	624.35	541.63	488.67	548.53	387.80	556.07	499.80
534.35	457.77	541.72	658.96	548.63	264.29	556.16	602.00
534.45	609.36	541.81	497.90	548.73	509.96	556.25	492.95
534.73	552.40	541.91	470.07	548.83	477.41	556.34	484.16
534.82	392.33	542.01	541.68	548.93	487.71	556.43	508.60
534.91	588.00	542.11	568.32	549.03	453.61	556.52	598.85
535.01	484.21	542.21	518.62	549.13	524.46	556.61	506.25
535.10	569.69	542.31	537.90	549.23	494.50	556.70	529.56
535.19	594.45	542.41	468.30	549.33	320.73	556.79	509.41
535.29	549.78	542.51	581.52	549.43	559.45	556.88	500.48
535.38	427.24	542.61	495.02	550.02	591.81	556.97	655.72
535.66	607.45	542.71	535.20	550.12	458.18	557.06	460.38
535.75	628.76	543.01	664.16	550.22	451.48	557.15	487.75
535.84	534.88	543.11	634.92	550.32	497.90	557.24	466.56
535.94	370.02	543.21	422.46	550.42	502.28	557.33	614.56
536.03	538.97	543.31	646.20	550.52	621.45	557.42	513.40
536.12	380.23	543.41	531.64	550.62	544.12	557.51	469.75
536.22	452.65	543.51	597.98	550.72	482.23	557.60	524.68
536.31	506.45	543.61	486.88	550.82	478.65	557.69	413.74
536.59	580.68	543.71	481.13	550.92	515.11	557.78	517.22
536.68	616.33	544.01	521.59	551.02	605.02	557.87	600.83
536.78	534.88	544.11	512.17	551.12	409.19	557.96	535.19
536.87	541.30	544.21	584.52	551.22	439.96	558.05	621.31
536.96	580.35	544.31	641.17	551.32	539.28	558.14	574.68
537.06	541.73	544.41	546.74	551.42	307.25	558.23	317.95
537.15	560.74	544.51	482.38	551.52	445.20	558.32	527.16
537.24	450.01	544.61	450.94	551.62	419.95	558.41	412.65
537.52	524.41	544.71	592.90	551.72	592.85	558.50	458.56
537.62	531.36	544.81	513.48	551.82	506.45	558.59	444.53
537.71	413.83	544.91	569.44	551.92	634.84	558.68	471.80
537.80	447.61	545.01	473.53	552.02	516.53	558.77	551.86
537.90	484.49	545.11	373.36	552.12	396.41	558.86	392.57
537.99	482.44	545.21	332.01	552.22	451.55	558.95	391.21
538.08	455.90	545.31	374.87	552.32	529.23	559.04	633.69
538.18	565.11	545.41	515.51	552.42	575.94	559.13	519.11
538.46	567.54	545.51	500.42	552.52	481.57	559.22	442.53
538.55	530.88	545.61	533.47	552.62	531.41	559.31	281.20
538.64	621.47	545.71	469.85	552.72	556.67	559.40	441.62
538.74	495.64	545.81	433.71	552.82	527.26	559.49	325.15
538.83	476.76	545.91	566.33	552.92	584.00	559.58	553.94
538.92	468.44	546.01	382.37	553.02	545.17	559.67	552.55
539.02	503.04	546.11	430.43	553.12	538.56	559.76	413.96
539.11	483.40	546.21	587.89	553.22	370.63	559.85	505.54
539.39	373.49	546.31	474.90	553.32	477.34	559.94	583.62
539.48	490.27	546.41	572.66	553.42	481.37	560.03	570.46
539.67	494.14	546.51	584.14	553.52	585.78	560.12	528.35
539.76	480.76	546.61	593.55	553.62	527.26	560.21	492.60
539.85	567.76	546.71	552.03	553.72	550.88	560.30	427.45
539.95	631.23	546.81	647.31	553.82	636.42	560.39	523.26
540.04	538.20	546.91	509.70	553.92	395.16	560.48	647.14
540.32	523.21	547.01	534.67	554.02	515.80	560.57	287.46
540.51	422.52	547.11	463.11	554.12	486.16	560.66	582.66

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
562.33	554.91	569.69	521.12	576.87	520.56	584.15	534.06
562.42	592.27	569.79	581.93	576.97	496.19	584.33	521.15
562.70	447.50	569.88	571.03	577.15	471.77	584.43	516.58
562.79	369.16	570.16	601.11	577.25	682.77	584.52	501.13
562.89	596.04	570.25	596.66	577.34	633.17	584.61	595.54
562.98	468.85	570.35	520.71	577.62	438.25	584.71	386.06
563.07	598.28	570.44	522.01	577.71	626.21	584.80	560.71
563.17	529.02	570.53	611.30	577.81	305.23	585.08	509.88
563.26	589.73	570.63	409.88	577.90	442.70	585.27	484.23
563.35	396.05	570.72	425.30	578.09	535.39	585.36	557.41
563.63	535.98	570.81	612.96	578.18	537.08	585.45	418.31
563.73	510.27	571.09	265.46	578.27	421.39	585.55	420.93
563.82	471.78	571.19	667.28	578.55	610.67	585.73	457.74
563.91	612.63	571.28	427.86	578.65	474.19	586.01	414.75
564.01	558.51	571.37	574.18	578.74	517.54	586.11	434.73
564.10	459.73	571.47	448.56	578.83	472.93	586.20	526.45
564.19	638.58	571.56	411.07	578.93	370.52	586.29	539.66
564.57	598.17	571.65	621.84	579.02	565.26	586.39	480.67
564.66	515.95	571.75	553.15	579.11	376.83	586.57	478.51
564.75	499.44	572.03	500.83	579.21	591.53	586.67	539.73
564.85	671.81	572.12	563.96	579.49	491.46	586.95	298.55
564.94	458.59	572.21	493.44	579.58	438.67	587.04	563.43
565.03	527.67	572.31	677.18	579.67	575.52	587.13	428.88
565.13	352.58	572.49	563.95	579.77	586.67	587.22	506.87
565.22	625.85	572.58	483.96	579.86	379.55	587.32	512.56
565.50	534.76	572.68	468.17	579.95	474.82	587.50	506.60
565.59	371.69	572.96	429.43	580.04	618.50	587.60	410.04
565.68	498.79	573.05	538.09	580.14	355.98	587.88	647.16
565.78	448.84	573.14	321.70	580.42	519.98	587.97	489.86
565.87	676.18	573.24	349.07	580.51	580.93	588.06	520.34
565.96	562.44	573.33	390.19	580.60	555.47	588.16	582.23
566.06	563.77	573.42	474.73	580.70	545.48	588.25	410.21
566.15	469.58	573.52	503.33	580.79	436.69	588.34	416.06
566.43	497.05	573.61	441.93	580.88	478.71	588.44	501.47
566.52	242.67	573.89	488.21	580.98	564.76	588.53	404.92
566.62	391.27	573.98	449.15	581.07	428.75	588.81	601.64
566.71	536.11	574.08	377.53	581.35	656.50	589.00	363.84
566.80	451.51	574.17	514.00	581.44	520.86	589.09	579.66
566.90	670.89	574.26	591.94	581.54	426.56	589.18	397.79
567.08	412.04	574.36	646.43	581.63	440.31	589.37	557.75
567.46	504.01	574.45	520.89	581.72	384.65	589.46	353.26
567.55	581.40	574.54	596.23	581.82	354.32	589.74	642.70
567.64	681.37	574.82	477.79	581.91	536.82	589.84	496.30
567.74	426.82	574.92	456.50	582.00	539.17	589.93	533.49
567.83	486.14	575.01	669.71	582.28	522.08	590.02	559.15
567.92	449.09	575.10	457.27	582.38	501.22	590.21	566.93
568.02	265.74	575.20	551.97	582.47	656.31	590.30	412.41
568.30	575.11	575.29	424.30	582.56	552.03	590.40	568.69
568.39	564.33	575.38	459.85	582.66	476.63	590.68	503.54
568.48	350.48	575.48	548.41	582.75	460.22	590.77	629.82
568.58	502.58	575.76	484.39	582.84	475.65	590.86	518.63
568.67	418.27	575.85	510.50	582.94	401.02	590.95	567.48
568.76	546.90	575.94	548.70	583.22	494.18	591.05	560.85
568.85	309.99	576.04	552.72	583.31	453.58	591.14	442.52
568.95	590.97	576.13	485.28	583.40	608.07	591.33	400.04
569.23	505.60	576.22	693.90	583.50	639.25	591.61	542.28
569.32	286.02	576.31	493.64	583.59	568.23	591.70	568.97
569.41	518.67	576.41	573.27	583.68	367.48	591.89	496.73
569.51	429.64	576.69	536.37	583.77	590.12	591.98	465.45
569.60	415.09	576.78	589.18	583.87	522.95	592.07	550.89

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
592.26	623.48	599.72	629.60	606.90	463.88	615.11	421.47
592.54	459.47	600.00	575.26	606.99	376.52	615.20	494.56
592.63	596.66	600.09	560.11	607.18	467.32	615.29	508.85
592.73	634.71	600.19	424.13	607.46	638.44	615.48	496.00
592.82	591.00	600.28	475.86	607.55	510.88	615.57	401.79
592.91	488.18	600.37	417.11	607.74	536.73	615.85	512.52
593.01	620.10	600.47	449.09	607.83	573.54	615.95	542.86
593.10	702.70	600.56	481.34	607.93	506.60	616.04	487.56
593.19	624.41	600.65	540.14	608.02	396.59	616.13	493.63
593.47	581.72	600.93	615.91	608.39	292.08	616.23	467.56
593.57	656.42	601.03	509.66	608.49	491.76	616.32	493.82
593.75	601.82	601.12	696.84	608.67	562.91	616.41	401.30
593.85	606.01	601.21	522.82	608.77	494.86	616.51	483.86
593.94	444.40	601.31	534.56	608.86	400.98	616.78	346.10
594.03	487.02	601.40	447.32	609.05	398.52	616.97	424.55
594.13	476.43	601.49	452.17	609.32	488.67	617.06	439.92
594.41	656.62	601.59	616.89	609.42	666.86	617.16	532.28
594.50	617.36	601.87	481.99	609.51	465.76	617.25	620.30
594.59	512.89	601.96	531.70	609.60	486.29	617.34	642.88
594.68	538.33	602.05	377.63	609.70	372.80	617.72	509.80
594.78	505.00	602.14	414.01	609.79	397.75	617.90	494.62
594.96	458.39	602.24	448.92	609.88	503.29	618.00	481.32
595.06	492.60	602.33	443.16	609.98	352.95	618.09	395.71
595.34	514.63	602.42	479.39	610.26	527.19	618.18	522.65
595.43	436.48	602.52	491.11	610.35	381.37	618.28	507.28
595.52	505.65	602.80	460.74	610.44	395.18	618.37	520.49
595.62	500.65	602.89	463.31	610.54	528.68	618.65	587.08
595.71	433.28	602.98	437.21	610.63	577.82	618.74	489.78
595.80	489.90	603.08	620.98	610.72	579.04	618.93	341.25
595.90	385.20	603.17	466.93	610.82	354.23	619.02	568.35
595.99	467.46	603.36	509.20	610.91	569.02	619.21	538.72
596.27	389.50	603.45	372.21	611.19	465.47	619.77	612.03
596.36	477.97	603.73	566.68	611.28	487.90	619.86	573.53
596.46	493.16	603.82	454.89	611.38	373.31	619.96	457.82
596.55	372.89	603.92	564.34	611.47	326.01	620.05	516.46
596.64	531.40	604.01	591.69	611.56	523.08	620.14	414.46
596.74	326.39	604.10	508.96	611.75	464.89	620.24	413.57
596.83	436.43	604.20	307.51	611.84	570.21	620.51	499.04
596.92	491.74	604.29	491.84	612.12	611.49	620.61	615.04
597.20	318.80	604.38	592.01	612.22	570.53	620.79	432.50
597.30	516.27	604.66	567.97	612.31	480.65	620.89	461.05
597.39	530.93	604.76	593.46	612.40	526.49	620.98	474.67
597.48	455.87	604.85	452.82	612.68	398.70	621.07	623.67
597.58	548.52	604.94	597.63	613.05	522.33	621.17	555.95
597.67	531.98	605.04	664.91	613.15	581.23	621.54	532.27
597.76	437.33	605.13	501.97	613.24	665.02	621.63	557.93
597.86	432.08	605.22	632.03	613.33	645.42	621.73	587.27
598.14	239.25	605.32	528.28	613.43	498.24	621.82	358.37
598.23	519.08	605.59	402.95	613.52	575.15	621.91	390.20
598.32	411.19	605.69	516.31	613.61	503.67	622.10	472.80
598.41	608.80	605.78	356.15	613.71	445.55	622.38	546.48
598.51	302.64	605.87	531.03	613.99	459.39	622.47	386.50
598.60	592.58	605.97	327.89	614.08	652.45	622.57	471.46
598.69	547.96	606.06	536.55	614.17	520.03	622.66	611.17
599.07	587.21	606.15	504.67	614.27	603.30	622.75	419.02
599.16	511.95	606.25	403.95	614.36	700.72	622.94	447.50
599.25	302.68	606.53	520.43	614.45	446.33	623.03	385.69
599.35	342.75	606.62	439.92	614.64	635.41	623.31	396.43
599.44	483.23	606.71	606.93	614.92	551.49	623.41	558.71
599.63	427.93	606.81	431.56	615.01	614.10	623.59	602.74

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
623.69	513.71	631.80	603.57	640.47	571.87	648.58	475.50
623.78	462.78	631.89	495.87	640.66	617.05	648.68	350.60
623.87	532.31	631.98	642.87	641.03	552.55	648.77	578.96
624.24	469.80	632.17	588.74	641.12	525.72	648.86	651.61
624.34	458.54	632.26	494.76	641.22	552.25	648.96	663.36
624.43	313.84	632.36	678.53	641.31	587.50	649.14	473.19
624.52	557.19	632.64	442.66	641.40	394.16	649.42	441.77
624.62	544.55	632.82	501.30	641.59	488.80	649.52	600.78
624.80	484.63	632.92	442.50	641.68	521.00	649.61	535.77
624.90	576.18	633.01	449.93	641.96	553.61	649.70	387.71
625.18	512.18	633.10	372.12	642.06	446.25	649.79	506.86
625.27	512.62	633.20	521.48	642.15	511.43	649.98	560.27
625.36	539.86	633.29	479.47	642.24	509.24	650.07	481.71
625.46	522.97	633.57	510.19	642.33	522.45	650.35	432.46
625.55	526.15	633.66	431.97	642.43	494.62	650.54	445.43
625.64	512.66	633.85	525.37	642.52	492.59	650.63	545.37
625.74	626.50	634.04	633.12	642.61	313.62	650.73	614.20
625.83	345.54	634.13	580.99	642.89	546.63	650.91	559.19
626.11	237.55	634.22	394.23	642.99	622.37	651.01	405.14
626.20	579.96	634.50	254.26	643.08	559.50	651.29	524.87
626.30	336.57	634.60	464.16	643.17	649.28	651.38	430.44
626.39	592.55	634.69	490.74	643.27	404.33	651.57	608.55
626.48	474.21	634.78	302.07	643.36	509.79	651.85	473.21
626.67	492.20	634.88	620.87	643.45	269.27	652.22	525.16
626.76	390.93	635.06	587.60	643.55	511.19	652.31	379.96
627.04	568.57	635.15	559.72	643.83	530.19	652.50	451.39
627.23	440.90	635.43	596.71	643.92	462.22	652.59	407.86
627.32	616.48	635.53	597.69	644.11	478.62	652.78	539.12
627.51	555.96	635.62	539.19	644.20	499.25	652.87	522.12
627.60	627.75	635.71	525.31	644.29	468.60	653.15	557.09
627.69	480.01	635.81	479.03	644.39	506.70	653.25	608.64
627.97	503.91	636.09	507.82	644.48	457.27	653.34	573.86
628.16	613.19	636.37	516.72	644.76	553.18	653.43	426.10
628.25	515.74	636.46	659.35	644.95	471.22	653.62	513.78
628.35	503.95	636.55	395.89	645.04	532.28	653.71	623.62
628.44	545.73	636.65	500.59	645.13	538.78	654.08	605.32
628.53	506.37	637.30	521.65	645.23	398.82	654.18	592.85
628.63	484.27	637.39	485.32	645.41	500.62	654.27	470.69
628.91	583.97	637.49	433.01	645.69	480.03	654.36	566.66
629.09	488.32	637.58	616.38	645.79	405.04	654.46	474.98
629.19	596.51	637.67	313.30	645.88	591.89	654.55	435.89
629.28	361.86	637.86	549.72	645.97	334.33	654.64	591.32
629.37	589.20	638.23	580.97	646.06	586.27	654.74	569.74
629.47	596.53	638.33	537.76	646.16	677.90	655.02	588.07
629.84	544.67	638.42	496.27	646.25	561.11	655.11	524.77
629.93	549.38	638.51	618.82	646.34	542.98	655.20	486.86
630.03	353.15	638.70	471.10	646.62	629.28	655.30	556.24
630.12	406.04	638.79	421.37	646.81	449.60	655.39	565.39
630.21	470.68	638.88	464.61	646.90	396.61	655.58	659.81
630.40	388.26	639.16	517.08	647.00	544.79	655.67	494.52
630.49	522.32	639.26	423.49	647.18	476.74	655.95	437.41
630.77	432.34	639.35	400.74	647.28	454.27	656.14	490.44
630.87	301.50	639.44	540.94	647.56	572.20	656.23	452.12
630.96	543.74	639.63	450.70	647.65	658.97	656.51	575.33
631.05	585.35	639.72	481.22	647.84	538.52	656.88	632.68
631.15	494.09	639.82	495.49	647.93	593.73	656.98	499.74
631.24	693.94	640.10	375.83	648.02	432.77	657.16	535.34
631.33	513.81	640.19	469.30	648.12	540.87	657.25	442.03
631.42	438.05	640.28	351.06	648.21	444.43	657.35	527.28
631.70	460.02	640.38	476.60	648.49	492.43	657.53	626.77

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
658.00	642.10	669.00	467.42	682.15	386.73	700.90	469.01
658.09	493.34	669.19	565.68	682.25	480.80	700.99	443.64
658.19	462.15	669.28	542.56	682.34	586.04	701.27	479.43
658.37	491.62	669.38	504.96	682.43	534.75	701.36	305.43
658.75	589.46	669.66	559.16	682.71	473.22	701.64	443.25
658.84	630.42	669.94	468.36	683.08	525.43	701.92	600.12
658.93	595.77	670.22	461.12	683.27	489.09	702.20	529.94
659.03	474.58	670.59	401.85	683.46	562.54	702.57	595.22
659.21	423.96	670.87	613.21	683.55	550.47	702.67	335.53
659.31	427.80	670.96	549.53	683.64	466.83	702.76	451.62
659.40	635.49	671.15	505.69	684.20	494.58	702.85	482.09
659.68	499.23	671.34	415.26	684.30	511.48	703.13	488.18
659.77	449.04	671.43	589.35	684.48	529.09	703.51	497.53
659.87	532.51	671.89	459.67	684.86	630.41	703.60	427.44
659.96	246.41	671.99	273.18	685.14	437.44	703.79	580.88
660.05	414.92	672.08	467.49	685.79	500.97	704.07	575.91
660.33	501.64	672.17	637.46	685.88	605.11	704.53	467.04
660.71	567.43	672.45	677.04	685.98	518.59	704.63	547.13
660.80	510.97	672.73	322.70	686.07	486.00	704.72	540.28
660.89	423.84	672.83	502.49	686.44	512.98	704.90	455.30
661.08	499.89	672.92	512.97	686.81	604.63	705.37	398.70
661.17	439.16	673.01	461.94	687.00	550.52	705.56	528.13
661.54	576.08	673.20	364.02	687.19	569.96	705.65	450.19
661.64	306.83	673.29	557.99	687.93	437.68	705.74	555.19
661.82	434.26	673.39	417.77	688.68	336.14	705.84	501.36
661.92	463.70	673.67	461.27	688.77	605.71	706.30	489.57
662.01	443.45	673.95	408.39	688.87	497.85	706.58	536.00
662.10	520.29	674.23	554.75	689.15	467.44	706.77	430.64
662.48	427.15	674.88	476.91	689.52	499.54	706.86	484.31
662.57	398.65	674.97	454.92	689.61	339.45	706.96	469.95
662.76	424.87	675.07	405.75	689.80	527.23	707.33	479.55
662.94	586.38	675.16	366.58	690.08	485.86	707.80	481.79
663.04	494.36	675.25	429.57	690.54	591.50	708.26	413.27
663.50	563.23	675.53	503.35	690.73	382.07	708.36	379.84
663.60	504.88	675.81	472.47	690.82	567.80	708.45	577.84
663.69	512.33	676.00	492.16	691.38	366.09	708.63	508.17
663.78	581.48	676.18	539.32	691.48	629.82	709.10	571.93
664.06	499.77	676.46	510.69	691.66	524.59	709.38	487.48
664.34	469.31	676.56	412.81	692.04	359.33	709.66	629.64
664.43	471.91	676.65	635.78	692.32	508.28	710.31	545.22
664.62	367.29	676.74	603.66	692.60	586.52	710.50	449.69
664.90	442.81	676.93	454.40	693.53	572.94	710.97	371.43
665.27	584.08	677.40	514.99	693.81	530.21	711.25	529.21
665.37	421.13	677.49	456.68	694.18	692.11	711.90	602.65
665.46	502.13	677.68	476.99	694.27	569.92	711.99	644.77
665.55	440.54	677.86	594.55	694.46	396.27	712.18	437.75
665.65	452.14	678.05	604.78	695.39	590.18	712.83	521.95
665.83	469.66	678.33	336.27	695.77	480.13	713.02	406.94
666.39	655.97	678.42	485.60	696.33	476.09	713.76	556.11
666.49	484.71	678.61	425.51	696.51	454.10	714.04	604.64
666.58	537.41	678.80	398.17	697.07	570.45	714.70	532.88
666.86	497.75	678.98	510.57	697.26	600.87	715.26	558.62
667.14	364.95	679.54	537.95	697.91	397.11	715.63	507.60
667.23	491.07	679.91	551.34	698.19	506.28	715.91	638.02
667.33	331.97	680.29	542.51	698.47	577.92	716.19	546.37
667.42	632.47	680.38	497.20	698.84	522.66	716.84	538.16
667.70	578.11	680.75	499.07	699.12	372.93	717.59	568.32
668.07	592.04	681.13	574.09	699.31	492.29	717.68	444.42
668.35	466.45	681.41	465.36	700.06	509.57	717.77	570.54
668.63	585.17	681.50	503.28	700.34	428.59	717.87	674.35

PISA score	New score	PISA score	New score	PISA score	New score	PISA score	New score
718.05	597.31	724.02	542.41	735.49	614.96	752.65	475.20
718.43	561.90	724.30	404.86	736.42	646.37	753.86	313.44
718.52	570.62	724.58	577.90	736.70	384.48	755.07	695.96
718.71	456.33	724.95	464.93	736.80	559.67	755.26	420.99
718.80	539.98	725.05	429.33	738.10	476.88	756.01	502.50
719.08	525.80	725.98	561.46	740.15	411.17	756.66	649.96
719.36	646.66	726.17	487.87	740.90	556.45	758.24	547.37
719.73	489.67	727.00	579.04	741.74	695.18	760.48	377.90
719.82	558.61	727.75	466.44	743.88	485.48	761.60	559.61
720.29	419.51	728.03	341.98	744.82	614.79	763.56	563.66
720.48	546.36	728.96	483.66	745.65	380.67	763.84	658.03
720.66	545.44	729.90	424.77	746.49	233.84	772.51	494.66
721.22	424.82	730.64	432.52	747.61	398.61	773.72	428.16
721.50	587.89	730.83	417.21	748.55	442.20	788.92	407.38
722.44	450.68	732.69	618.54	749.76	350.79	789.30	559.42
722.53	571.87	732.97	575.86	751.06	470.96	790.51	373.95
722.72	462.89	733.81	540.41	751.34	504.68	809.16	520.14
723.55	538.63	734.56	525.59	752.00	438.22		

Table H.2

## Original PCAP score to new score

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
148.59	189.45	227.58	268.03	243.12	254.73	254.55	277.59
174.12	209.03	228.66	264.73	243.92	262.53	254.63	275.15
177.25	209.75	228.73	252.92	244.31	270.49	254.78	279.52
185.03	221.79	228.82	240.90	245.00	253.84	254.80	275.27
187.18	218.13	229.23	252.96	245.48	255.44	254.81	289.58
189.87	218.22	229.68	246.25	245.56	289.38	254.99	265.34
191.35	227.51	229.70	244.66	245.75	280.81	255.03	307.24
195.16	219.92	230.12	274.23	245.77	270.17	255.08	273.18
195.80	226.96	230.44	248.42	246.01	295.95	255.14	329.72
199.36	228.79	230.58	312.66	246.18	260.07	255.61	263.02
199.61	213.35	231.07	250.80	246.43	283.73	255.63	293.23
201.15	231.72	231.90	259.12	246.63	275.66	255.96	271.58
201.58	546.90	231.92	265.74	247.03	265.16	255.99	285.61
201.61	224.22	232.21	261.29	247.38	295.94	256.02	271.04
202.71	226.51	232.99	248.41	247.39	278.53	256.39	266.54
202.89	222.57	233.73	248.89	247.88	282.07	256.46	297.72
203.88	241.56	233.88	270.00	247.89	251.81	256.54	281.85
204.27	234.87	234.27	250.48	247.90	260.57	256.59	290.63
205.34	219.16	234.33	261.07	247.99	260.32	256.84	269.21
206.60	240.80	234.80	271.74	248.32	293.22	256.91	255.55
207.25	241.55	234.81	239.24	248.63	259.34	256.93	276.16
208.44	228.16	235.14	247.66	248.94	276.88	256.96	278.08
208.94	244.66	235.73	239.25	249.46	287.71	257.02	265.80
210.93	238.72	235.77	248.37	249.96	271.09	257.60	290.24
211.54	223.86	236.34	270.99	249.99	298.33	257.80	264.29
213.32	258.09	236.44	252.80	251.19	288.22	257.89	274.68
214.00	233.59	236.51	261.84	251.24	284.95	258.05	276.00
214.42	248.61	236.61	289.08	251.28	267.53	258.08	281.82
214.90	229.69	236.77	252.97	251.33	283.23	258.17	310.49
215.07	229.06	236.85	260.33	251.61	278.21	258.34	287.46
215.44	242.43	236.87	269.93	251.65	280.26	258.60	273.79
215.90	263.89	237.07	276.00	251.66	254.00	258.62	295.54
217.10	229.82	237.88	267.87	251.74	291.46	258.65	282.85
217.23	251.64	238.15	257.16	251.94	262.75	258.68	683.51
219.16	254.08	238.32	265.39	251.99	256.88	258.76	278.22
219.22	226.86	238.52	264.01	252.00	272.22	258.86	286.19
219.56	248.60	238.57	341.25	252.14	287.87	258.93	289.63
219.99	229.52	238.63	252.63	252.40	281.83	258.98	279.50
220.03	232.91	238.85	280.99	252.41	274.99	259.12	272.64
220.27	254.49	239.52	290.26	252.58	272.20	259.14	278.81
220.34	224.78	239.69	282.83	252.74	261.01	259.21	292.88
220.82	235.43	239.86	262.28	253.08	272.93	259.35	301.10
220.86	248.56	239.95	275.36	253.13	285.41	259.43	270.14
221.60	268.24	240.00	260.39	253.22	557.89	259.49	291.90
222.42	248.83	240.34	268.89	253.28	289.54	259.59	284.52
222.49	233.01	240.60	274.87	253.59	262.14	259.63	285.11
222.61	232.98	240.94	286.43	253.60	282.37	259.67	267.12
223.83	221.94	241.45	258.76	253.73	277.72	259.89	276.25
223.94	249.90	241.52	269.53	253.79	265.42	260.04	294.85
224.07	265.37	241.70	263.52	253.80	287.63	260.42	280.99
224.24	281.78	241.92	244.89	253.85	612.11	260.45	284.88
225.24	255.69	242.00	274.47	253.87	277.71	260.64	293.71
225.47	232.77	242.19	275.21	254.08	262.06	260.73	288.52
227.24	265.90	242.21	260.20	254.09	416.92	261.10	281.14
227.56	261.74	242.65	271.57	254.35	285.60	261.23	291.30

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
261.42	290.86	268.49	298.55	274.00	325.16	278.70	305.26
261.54	288.96	268.90	291.24	274.01	293.42	278.73	304.87
261.79	266.75	268.96	294.86	274.11	285.56	279.17	306.72
261.88	281.06	269.08	308.04	274.13	307.49	279.18	319.53
262.04	426.50	269.19	284.09	274.18	290.68	279.23	337.50
262.11	294.32	269.23	285.78	274.35	307.11	279.24	304.32
262.15	284.32	269.29	294.62	274.50	311.52	279.25	329.11
262.52	296.12	269.32	289.24	274.60	298.29	279.26	309.55
262.54	277.74	269.33	275.06	274.66	328.10	279.30	276.72
262.68	272.02	269.41	307.39	274.72	297.40	279.31	310.34
262.84	304.42	269.44	297.20	274.76	329.37	279.40	301.92
262.85	273.16	269.59	287.24	274.84	276.44	279.42	294.70
262.89	294.65	269.60	299.56	275.08	312.62	279.47	354.62
263.01	299.03	269.63	300.05	275.11	301.33	279.62	281.09
263.06	299.75	269.83	286.52	275.24	291.20	279.63	297.17
263.20	285.07	269.88	344.65	275.30	285.73	279.66	311.03
263.70	295.74	269.93	320.29	275.32	298.14	279.75	292.35
263.80	312.98	270.14	284.28	275.41	316.94	280.12	339.72
263.85	283.58	270.22	305.37	275.45	314.55	280.18	568.67
264.07	331.84	270.23	321.74	275.69	310.11	280.19	294.87
264.08	283.67	270.29	304.79	275.70	290.93	280.20	298.38
264.09	285.92	270.46	321.74	275.74	329.76	280.39	345.05
264.43	269.27	270.58	272.84	275.81	286.84	280.44	305.48
264.44	294.15	270.63	304.57	275.89	289.38	280.50	303.24
264.49	307.92	270.77	311.80	276.02	306.15	280.56	321.75
264.59	311.56	270.78	278.23	276.03	304.32	280.66	312.40
264.78	303.03	270.85	302.95	276.22	280.38	280.68	580.97
264.80	287.40	271.17	308.57	276.25	316.58	280.89	319.61
264.81	298.16	271.34	311.45	276.36	306.46	280.97	326.86
265.05	289.24	271.36	293.39	276.37	314.52	281.06	327.26
265.13	296.32	271.47	315.68	276.41	313.03	281.11	300.17
265.20	292.81	271.54	294.72	276.44	300.86	281.12	303.62
265.45	309.15	271.72	310.84	276.46	307.82	281.23	328.66
265.79	292.83	271.76	288.39	276.52	286.00	281.29	294.99
265.82	283.96	271.85	295.34	276.56	285.27	281.31	581.92
265.89	287.38	271.94	273.20	276.68	296.66	281.50	289.26
265.94	291.99	271.98	283.96	276.74	305.55	281.70	295.16
266.10	283.25	272.01	298.85	276.93	319.13	281.71	306.45
266.32	282.33	272.08	309.64	277.00	311.99	281.86	297.14
266.62	277.38	272.14	273.68	277.04	312.58	281.87	322.46
266.63	297.32	272.17	313.69	277.15	307.01	281.96	302.32
266.74	300.37	272.21	284.90	277.21	314.17	281.98	581.27
266.86	289.01	272.29	299.46	277.41	307.71	282.09	324.80
266.91	303.06	272.33	315.91	277.52	314.87	282.21	294.97
266.92	313.09	272.34	281.40	277.54	300.09	282.22	624.18
266.96	302.56	272.46	292.93	277.71	309.34	282.25	309.75
267.14	325.23	272.49	310.45	277.87	298.44	282.35	312.12
267.27	305.49	272.51	305.51	277.92	296.87	282.40	560.85
267.33	316.10	272.54	281.74	277.94	305.63	282.67	308.02
267.45	284.13	273.00	295.84	277.99	301.01	282.68	308.92
267.68	301.24	273.29	423.57	278.02	318.76	282.73	305.47
267.78	293.69	273.36	308.91	278.16	288.91	282.74	299.27
267.93	282.40	273.40	289.04	278.19	289.30	282.77	312.33
267.99	313.20	273.51	321.02	278.28	328.31	282.78	606.78
268.08	307.19	273.64	287.50	278.37	279.64	282.95	580.79
268.23	279.05	273.71	312.76	278.38	310.91	282.97	299.97
268.36	299.48	273.73	282.56	278.40	300.62	283.12	302.01
268.37	287.96	273.75	294.84	278.50	323.67	283.21	309.50
268.39	297.74	273.79	313.81	278.55	305.09	283.22	333.36
268.44	297.44	273.92	297.57	278.66	318.09	283.30	307.86



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
283.35	318.92	288.88	307.05	292.82	321.15	296.43	309.73
283.45	303.74	288.96	317.54	292.91	305.44	296.72	326.15
283.46	289.66	289.09	293.07	293.04	327.56	296.78	320.82
283.62	333.00	289.14	314.86	293.11	308.85	296.82	320.02
283.77	313.78	289.16	348.75	293.13	320.63	296.92	313.56
284.08	303.14	289.27	319.77	293.15	304.47	296.94	344.13
284.25	311.95	289.32	288.64	293.26	300.57	297.07	339.58
284.49	305.43	289.38	309.49	293.31	347.96	297.21	315.98
284.56	340.97	289.41	295.81	293.43	324.51	297.38	319.11
284.61	313.70	289.43	299.25	293.48	328.77	297.40	349.63
284.83	322.49	289.44	325.09	293.49	298.73	297.47	314.45
284.95	298.12	289.51	325.19	293.55	326.03	297.51	303.46
284.97	301.86	289.56	328.80	293.63	325.28	297.61	300.94
284.99	294.69	289.58	312.35	293.68	307.56	297.62	337.89
285.04	313.26	289.65	299.27	293.82	304.57	297.75	310.73
285.12	320.14	289.88	309.42	293.85	323.40	297.80	310.63
285.13	295.26	289.91	298.09	293.86	323.89	297.94	317.10
285.38	313.35	289.95	299.44	293.93	306.33	297.96	297.51
285.39	306.94	289.98	310.96	294.06	331.42	297.97	309.88
285.62	294.11	290.00	304.34	294.08	302.46	298.06	330.31
285.67	284.45	290.07	314.06	294.12	321.86	298.21	302.53
285.71	332.13	290.11	306.23	294.20	297.14	298.33	303.41
285.92	307.86	290.19	326.21	294.32	308.56	298.36	340.82
285.96	306.89	290.27	303.17	294.34	302.89	298.37	304.67
285.97	299.32	290.28	304.45	294.37	308.75	298.45	328.57
286.01	306.57	290.40	293.52	294.54	299.76	298.58	312.35
286.06	304.02	290.41	348.06	294.55	311.37	298.59	313.19
286.07	293.31	290.43	295.86	294.57	336.03	298.67	313.03
286.09	312.85	290.46	326.70	294.64	320.31	298.71	323.54
286.15	314.96	290.63	304.57	294.93	321.93	298.89	337.66
286.22	289.66	290.65	316.48	294.96	304.04	298.98	349.88
286.34	299.07	290.87	294.41	295.01	351.29	299.00	329.98
286.82	322.22	290.97	329.65	295.02	321.85	299.05	320.59
286.85	292.20	290.99	295.97	295.07	317.95	299.08	316.70
286.90	316.79	291.10	301.63	295.09	324.69	299.22	313.42
286.93	325.63	291.24	303.33	295.22	324.08	299.24	314.68
286.96	318.51	291.33	308.59	295.27	317.61	299.25	323.60
287.08	291.58	291.47	339.87	295.35	301.60	299.47	417.34
287.11	314.54	291.52	323.11	295.36	529.09	299.54	337.90
287.12	326.27	291.58	291.24	295.39	324.14	299.62	335.79
287.22	321.64	291.61	318.31	295.46	352.39	299.69	330.79
287.24	302.54	291.64	317.02	295.47	321.77	299.77	311.22
287.30	297.04	291.72	321.10	295.66	313.51	299.80	318.13
287.40	304.96	291.83	302.53	295.68	334.99	299.88	304.65
287.51	330.58	291.86	297.66	295.69	324.65	299.98	317.54
287.64	319.42	291.98	305.33	295.76	300.15	300.15	309.06
287.68	301.50	291.99	302.17	295.83	307.17	300.16	317.34
287.70	328.18	292.05	329.56	295.85	324.08	300.17	318.18
287.77	307.95	292.08	316.79	295.87	307.39	300.37	349.55
287.85	342.38	292.09	332.13	295.89	324.71	300.39	332.04
288.26	301.86	292.13	314.70	295.91	322.83	300.40	325.37
288.31	335.07	292.14	333.05	295.99	334.39	300.47	350.09
288.37	301.55	292.27	324.61	296.04	325.43	300.56	332.05
288.40	324.14	292.30	314.35	296.10	315.17	300.74	304.14
288.45	646.17	292.37	312.30	296.12	309.23	300.77	331.37
288.47	300.27	292.45	318.40	296.15	328.47	300.82	322.98
288.50	297.82	292.61	307.33	296.22	316.68	300.92	551.59
288.53	304.22	292.68	352.76	296.24	344.90	300.94	330.72
288.60	320.93	292.75	332.11	296.37	323.93	300.95	409.93
288.75	325.11	292.81	300.63	296.38	330.81	301.11	332.38

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
301.18	340.25	304.61	313.64	307.30	328.39	309.60	314.49
301.29	344.60	304.65	320.69	307.31	327.17	309.65	316.14
301.37	322.51	304.66	320.82	307.35	317.65	309.73	340.35
301.39	338.19	304.68	329.84	307.38	345.80	309.74	344.72
301.47	360.38	304.79	306.80	307.39	335.86	309.76	341.20
301.59	322.89	304.82	326.46	307.41	320.92	309.83	338.36
301.76	299.71	304.85	321.03	307.44	335.77	309.88	348.41
301.79	357.58	304.90	348.97	307.49	323.42	309.91	350.46
301.80	352.53	304.91	337.28	307.63	322.62	309.92	329.12
301.86	366.21	305.00	340.32	307.69	319.58	310.01	336.87
301.87	302.53	305.06	317.75	307.80	331.33	310.02	325.12
301.89	348.47	305.15	368.38	307.81	324.82	310.04	316.56
301.94	330.81	305.19	337.33	307.82	332.61	310.05	333.35
302.00	346.29	305.20	340.59	307.85	337.01	310.14	315.05
302.02	307.39	305.24	332.79	307.87	318.65	310.16	331.86
302.15	338.11	305.26	309.37	307.92	377.58	310.18	340.92
302.20	299.87	305.32	340.30	307.95	321.29	310.41	324.26
302.26	333.43	305.35	364.37	307.96	318.80	310.45	309.38
302.55	328.61	305.36	353.92	307.98	342.99	310.49	333.11
302.60	650.57	305.39	340.64	308.01	304.40	310.60	326.49
302.65	325.48	305.43	315.84	308.02	333.99	310.63	340.54
302.74	307.95	305.50	298.17	308.08	314.09	310.69	331.46
302.75	331.99	305.54	332.17	308.12	323.20	310.70	350.48
302.76	317.98	305.93	320.62	308.14	341.24	310.75	329.95
302.91	336.06	305.97	326.22	308.15	346.88	310.79	503.02
303.09	325.43	306.03	339.15	308.27	342.56	310.80	344.98
303.10	335.03	306.13	328.06	308.32	379.38	310.86	618.54
303.14	310.74	306.14	356.97	308.33	332.13	310.87	336.76
303.25	365.61	306.20	313.39	308.36	347.13	310.88	333.81
303.26	328.44	306.23	310.69	308.37	327.01	310.89	343.33
303.27	332.33	306.29	310.17	308.40	304.31	310.92	341.53
303.32	315.89	306.33	332.53	308.41	326.02	310.94	327.44
303.37	303.69	306.38	331.91	308.44	380.55	310.96	324.02
303.38	319.60	306.41	357.19	308.52	324.75	310.99	319.01
303.45	331.11	306.44	353.39	308.58	331.74	311.08	347.75
303.48	327.80	306.48	325.37	308.62	337.86	311.09	325.39
303.49	338.00	306.54	350.95	308.63	362.07	311.10	342.31
303.52	326.62	306.56	322.37	308.67	323.17	311.11	331.16
303.53	327.06	306.57	332.64	308.71	323.86	311.16	349.35
303.57	324.15	306.61	310.81	308.77	325.25	311.28	325.01
303.58	544.91	306.66	330.29	308.78	331.49	311.29	405.83
303.61	334.11	306.67	331.85	308.86	315.34	311.38	356.16
303.64	330.11	306.68	352.23	308.90	338.20	311.42	327.55
303.76	326.26	306.69	335.65	308.93	355.73	311.46	330.84
303.78	380.84	306.73	346.48	308.94	306.05	311.48	374.11
303.85	316.85	306.79	341.57	308.97	316.53	311.49	390.78
303.91	322.07	306.81	335.43	309.01	314.37	311.52	338.05
303.99	322.15	306.82	318.69	309.05	327.99	311.58	331.69
304.03	333.41	306.83	328.66	309.09	313.38	311.66	596.82
304.05	340.97	306.90	344.84	309.11	340.60	311.68	329.79
304.10	343.80	306.91	325.22	309.13	327.04	311.69	335.59
304.21	368.83	306.92	317.46	309.15	333.39	311.71	331.13
304.24	316.24	306.93	374.58	309.22	326.08	311.75	335.99
304.25	336.05	306.97	339.10	309.23	341.29	311.86	309.14
304.26	331.33	306.98	314.35	309.30	335.52	311.88	331.61
304.31	307.00	307.06	374.74	309.38	331.52	311.96	364.83
304.44	334.33	307.18	324.90	309.44	351.38	311.98	352.02
304.47	315.33	307.19	339.11	309.48	338.54	312.00	319.73
304.51	337.44	307.20	322.79	309.50	330.45	312.04	331.86
304.53	330.90	307.27	319.84	309.58	334.06	312.12	326.88

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
312.13	328.92	314.90	344.84	317.71	344.26	320.55	326.74
312.25	335.35	314.94	349.90	317.74	329.29	320.57	347.97
312.31	316.38	315.05	318.15	317.81	356.70	320.62	341.92
312.32	341.31	315.09	334.82	317.83	392.97	320.67	356.14
312.34	338.41	315.18	322.93	317.87	345.48	320.68	361.88
312.42	321.57	315.19	343.28	317.90	334.71	320.70	339.80
312.45	341.43	315.30	314.47	317.94	336.60	320.71	337.59
312.52	325.90	315.31	322.21	318.01	351.86	320.72	356.39
312.53	341.54	315.32	332.19	318.18	357.41	320.80	341.86
312.56	342.63	315.37	314.15	318.22	328.30	320.81	349.75
312.59	326.27	315.44	330.30	318.27	328.69	320.85	342.71
312.65	318.87	315.52	340.32	318.30	342.63	320.87	350.77
312.71	328.97	315.65	340.57	318.40	348.73	320.90	356.64
312.72	305.89	315.68	322.57	318.41	326.88	320.92	351.90
312.79	335.76	315.69	319.62	318.42	344.36	320.95	343.65
312.89	318.57	315.79	310.11	318.55	318.29	320.98	334.85
312.92	312.30	315.81	317.62	318.65	361.74	321.12	345.04
313.03	339.99	315.86	340.66	318.67	348.28	321.13	335.23
313.04	340.86	315.88	331.90	318.75	347.97	321.14	331.50
313.05	325.61	315.89	362.87	318.77	348.14	321.19	358.80
313.07	340.78	316.04	341.40	318.85	601.11	321.20	347.00
313.14	362.77	316.12	331.22	318.86	377.75	321.34	351.54
313.15	330.83	316.13	329.08	318.89	342.82	321.35	340.39
313.19	311.61	316.14	329.82	318.96	335.62	321.37	358.69
313.20	320.63	316.15	337.95	318.98	353.74	321.39	348.90
313.26	343.42	316.21	334.91	318.99	319.15	321.42	378.17
313.27	346.77	316.24	319.56	319.02	329.02	321.44	333.73
313.34	350.38	316.26	339.00	319.05	316.42	321.54	340.92
313.35	343.20	316.30	354.87	319.06	329.40	321.61	319.88
313.36	327.05	316.36	372.64	319.08	349.05	321.63	345.56
313.44	339.87	316.38	342.11	319.10	331.21	321.68	462.22
313.45	329.25	316.43	332.45	319.13	338.33	321.71	340.05
313.51	325.04	316.49	334.86	319.17	349.72	321.73	358.48
313.52	360.39	316.53	338.61	319.27	339.20	321.79	347.60
313.71	335.75	316.56	355.65	319.29	334.19	321.82	336.61
313.76	329.58	316.58	351.15	319.32	343.19	321.88	329.74
313.80	333.05	316.70	340.79	319.33	343.87	321.89	348.09
313.87	342.24	316.71	342.76	319.43	333.33	322.00	389.60
313.88	308.52	316.79	356.26	319.51	348.87	322.01	343.26
314.02	330.00	316.80	327.01	319.62	317.75	322.03	332.42
314.08	329.25	316.86	341.96	319.64	344.80	322.04	343.98
314.13	343.54	317.00	333.97	319.69	349.26	322.05	338.39
314.14	347.17	317.03	359.94	319.71	356.83	322.08	342.65
314.25	337.96	317.11	344.01	319.83	359.14	322.09	359.02
314.30	329.11	317.17	320.52	319.86	347.52	322.15	470.27
314.36	323.49	317.19	336.96	319.89	326.81	322.16	358.82
314.40	329.08	317.23	346.24	319.92	349.21	322.21	328.31
314.49	359.74	317.28	348.82	319.96	347.51	322.24	368.67
314.52	331.33	317.30	335.52	319.98	365.48	322.27	310.70
314.57	336.99	317.36	338.22	320.01	354.74	322.29	332.73
314.59	332.52	317.42	341.16	320.11	337.84	322.39	344.59
314.64	337.88	317.46	647.31	320.13	384.51	322.41	338.70
314.66	345.71	317.47	329.73	320.26	358.78	322.43	362.30
314.73	333.84	317.48	332.91	320.29	346.44	322.57	339.03
314.75	337.77	317.52	336.69	320.31	343.04	322.58	348.89
314.81	332.65	317.53	345.73	320.37	343.94	322.59	366.98
314.82	348.05	317.54	327.75	320.42	338.56	322.60	344.65
314.84	358.52	317.58	320.69	320.43	352.58	322.64	349.17
314.86	346.00	317.60	335.65	320.47	344.51	322.66	342.54
314.89	331.11	317.62	360.34	320.51	340.86	322.67	334.07

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
322.68	326.97	324.94	329.10	327.17	345.61	329.31	350.28
322.71	340.99	325.09	353.81	327.19	360.30	329.32	342.65
322.78	329.29	325.13	347.77	327.20	372.31	329.36	360.86
322.82	348.37	325.14	316.35	327.22	356.81	329.38	346.44
322.83	322.76	325.20	582.67	327.28	337.18	329.40	363.16
322.95	344.11	325.21	338.90	327.30	385.94	329.43	350.34
323.07	345.61	325.24	336.92	327.33	347.57	329.44	330.68
323.10	343.76	325.25	351.28	327.34	356.54	329.45	344.38
323.13	362.26	325.31	347.35	327.36	341.13	329.46	334.04
323.14	350.11	325.34	349.96	327.39	344.13	329.47	363.81
323.16	346.45	325.36	357.26	327.44	373.94	329.50	328.88
323.33	349.27	325.43	352.67	327.47	394.05	329.54	350.53
323.39	326.32	325.47	350.61	327.55	343.61	329.55	340.71
323.41	359.70	325.48	360.92	327.58	583.42	329.57	347.33
323.42	309.03	325.52	345.63	327.66	352.46	329.62	356.32
323.47	360.96	325.63	361.15	327.69	310.23	329.64	355.07
323.49	333.59	325.64	336.16	327.70	333.69	329.68	361.56
323.50	340.35	325.68	350.92	327.75	336.14	329.70	346.83
323.52	343.52	325.73	337.94	327.84	357.53	329.76	355.17
323.55	340.76	325.74	351.83	327.86	371.73	329.81	346.68
323.56	342.83	325.79	346.51	327.87	352.85	329.84	331.56
323.58	353.48	325.82	344.36	327.88	342.49	329.89	338.40
323.59	369.08	325.86	350.49	327.89	332.25	329.90	352.69
323.62	344.13	325.87	343.08	327.93	331.97	329.93	355.55
323.65	332.53	325.91	344.76	327.94	355.57	329.94	348.82
323.66	376.57	325.92	351.87	327.95	360.48	329.96	350.18
323.67	350.01	325.95	416.97	327.97	339.81	329.99	357.82
323.68	318.82	325.96	333.69	327.99	339.21	330.02	350.73
323.70	356.72	325.97	342.83	328.00	367.39	330.08	334.28
323.72	340.02	326.00	368.32	328.09	382.07	330.09	349.07
323.76	328.06	326.08	336.36	328.11	361.50	330.19	319.92
323.81	355.98	326.10	360.00	328.12	330.66	330.22	349.34
323.87	343.23	326.12	345.39	328.13	331.18	330.24	339.65
323.90	351.54	326.20	361.94	328.16	345.33	330.25	332.11
323.99	331.08	326.25	327.54	328.28	354.23	330.28	349.03
324.04	352.92	326.28	356.16	328.29	333.34	330.29	366.44
324.15	351.41	326.30	360.37	328.32	341.16	330.32	345.57
324.18	327.91	326.31	351.64	328.35	345.64	330.33	325.88
324.19	349.99	326.33	346.20	328.43	344.24	330.34	333.53
324.20	351.69	326.34	337.00	328.45	344.01	330.35	340.39
324.21	356.22	326.36	333.00	328.48	342.08	330.38	335.43
324.22	326.73	326.38	343.23	328.51	353.59	330.40	357.94
324.23	345.60	326.40	390.72	328.52	346.52	330.48	627.02
324.28	383.97	326.47	330.04	328.56	350.15	330.54	356.53
324.29	350.92	326.52	352.21	328.57	378.54	330.55	343.61
324.30	365.99	326.54	352.46	328.58	365.67	330.57	351.81
324.34	326.49	326.55	340.65	328.65	332.94	330.67	347.86
324.41	341.72	326.58	338.58	328.68	343.56	330.70	366.26
324.45	324.13	326.61	335.73	328.69	387.15	330.75	352.50
324.51	352.26	326.66	342.15	328.71	354.63	330.80	365.69
324.57	343.87	326.68	335.43	328.75	407.07	330.83	346.06
324.59	350.77	326.70	358.00	328.78	361.29	330.86	336.68
324.63	584.29	326.72	356.52	328.85	330.95	330.92	361.40
324.64	333.02	326.75	340.17	328.94	333.55	330.94	355.63
324.66	347.73	326.78	337.42	328.98	349.52	331.00	335.64
324.75	329.58	326.91	358.97	329.15	371.84	331.01	385.76
324.77	349.49	326.94	362.98	329.18	348.90	331.02	364.89
324.83	322.44	327.03	349.71	329.24	329.88	331.04	350.34
324.87	346.87	327.08	343.81	329.25	344.80	331.10	355.26
324.91	349.79	327.12	376.97	329.30	354.36	331.12	349.74

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
331.14	363.96	333.50	338.11	335.28	344.27	337.15	341.86
331.25	345.50	333.55	336.97	335.30	366.63	337.21	363.00
331.27	356.46	333.59	342.51	335.34	365.25	337.22	355.16
331.32	349.15	333.61	356.79	335.36	365.47	337.24	373.18
331.44	358.46	333.65	345.98	335.37	343.88	337.25	398.37
331.45	370.14	333.70	356.05	335.40	353.16	337.31	378.05
331.53	344.36	333.73	350.79	335.44	382.19	337.41	377.55
331.56	352.51	333.79	345.69	335.45	379.86	337.43	349.50
331.58	360.71	333.82	352.36	335.48	330.62	337.44	363.41
331.61	350.13	333.84	433.00	335.49	358.05	337.53	392.90
331.62	339.78	333.85	377.47	335.57	373.03	337.56	356.30
331.73	332.14	333.89	369.86	335.60	497.58	337.59	365.65
331.76	348.87	333.95	361.64	335.65	346.97	337.61	353.00
331.78	358.03	333.96	363.75	335.66	361.36	337.63	356.14
331.81	354.37	333.97	360.15	335.67	360.06	337.65	351.18
331.85	375.23	334.00	339.81	335.70	345.78	337.68	364.28
331.87	364.97	334.04	364.73	335.72	342.33	337.69	361.51
331.90	357.74	334.06	371.85	335.74	361.71	337.70	373.39
331.95	357.46	334.08	356.84	335.81	406.68	337.76	363.67
331.97	350.82	334.12	331.13	335.83	354.76	337.82	360.48
332.02	373.90	334.16	343.73	335.90	381.38	337.83	361.16
332.08	337.60	334.17	460.38	335.92	357.40	337.85	360.27
332.13	342.32	334.19	338.17	335.97	353.97	337.86	355.75
332.15	365.35	334.20	347.13	336.00	357.94	337.88	375.11
332.27	336.96	334.28	362.80	336.03	371.56	337.89	358.70
332.28	372.17	334.30	363.50	336.05	345.58	337.94	336.20
332.29	361.53	334.31	338.76	336.11	389.17	337.96	661.45
332.30	351.64	334.33	342.20	336.13	354.99	337.97	347.51
332.33	335.07	334.35	359.96	336.15	344.57	338.01	355.39
332.34	385.29	334.38	357.86	336.17	352.54	338.03	385.82
332.36	351.51	334.40	341.24	336.20	371.14	338.16	363.44
332.37	354.57	334.41	363.81	336.23	359.25	338.17	372.34
332.38	331.20	334.45	360.13	336.24	356.59	338.18	375.18
332.39	361.69	334.55	362.06	336.31	381.18	338.21	370.02
332.41	330.50	334.57	382.64	336.33	352.47	338.22	379.35
332.42	359.65	334.59	341.34	336.35	359.20	338.25	393.26
332.43	355.91	334.64	356.55	336.37	357.00	338.26	348.67
332.51	353.26	334.65	368.29	336.48	360.34	338.30	336.78
332.55	369.43	334.66	385.77	336.49	358.17	338.31	360.28
332.66	366.10	334.68	361.67	336.51	358.48	338.33	354.18
332.68	339.84	334.70	361.25	336.55	345.31	338.34	364.12
332.69	343.39	334.72	381.66	336.56	357.01	338.37	365.73
332.78	347.63	334.73	367.13	336.58	347.39	338.40	352.37
332.80	338.44	334.74	335.58	336.67	353.25	338.43	365.10
332.82	361.79	334.76	356.05	336.68	372.20	338.46	365.06
332.86	367.39	334.78	357.89	336.69	354.62	338.48	355.75
332.87	331.60	334.82	363.31	336.74	363.58	338.55	368.82
332.90	404.72	334.83	353.72	336.76	343.05	338.56	370.88
332.91	351.32	334.88	356.84	336.79	364.84	338.57	373.53
332.94	360.27	334.90	351.80	336.82	329.11	338.58	344.56
332.97	358.72	334.91	367.22	336.86	370.01	338.62	362.13
333.06	374.56	334.97	355.78	336.87	351.06	338.63	361.97
333.07	345.14	335.03	361.31	336.88	359.61	338.65	367.94
333.09	352.04	335.05	348.10	336.95	351.34	338.67	350.99
333.11	390.84	335.08	352.57	337.04	341.96	338.70	342.83
333.23	414.08	335.09	348.65	337.09	586.23	338.73	369.05
333.29	374.31	335.15	348.20	337.10	375.62	338.77	340.46
333.32	374.64	335.22	363.07	337.11	341.05	338.81	361.07
333.34	355.23	335.23	337.73	337.13	368.57	338.82	338.92
333.41	387.06	335.27	395.20	337.14	362.18	338.98	342.97

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
339.00	360.55	340.47	349.28	342.11	359.73	343.79	363.02
339.01	625.42	340.50	361.75	342.14	357.96	343.81	374.90
339.02	351.41	340.51	354.66	342.15	379.73	343.86	367.15
339.03	379.36	340.52	343.82	342.17	432.38	343.90	369.86
339.04	353.56	340.53	359.82	342.22	354.62	343.91	354.72
339.05	359.78	340.54	355.97	342.26	375.43	343.99	350.19
339.12	367.80	340.59	360.45	342.27	375.01	344.01	363.08
339.14	349.34	340.65	367.51	342.30	362.44	344.02	340.19
339.15	359.09	340.66	357.09	342.33	383.64	344.04	372.04
339.16	362.11	340.68	356.02	342.38	367.63	344.10	366.37
339.19	356.17	340.71	372.87	342.44	339.35	344.14	351.69
339.21	353.32	340.79	361.90	342.49	376.06	344.19	373.46
339.22	360.28	340.80	362.94	342.51	389.13	344.22	406.93
339.26	338.32	340.83	376.31	342.55	383.05	344.25	375.95
339.27	385.83	340.84	359.61	342.57	378.11	344.28	373.97
339.28	343.05	340.85	415.26	342.60	360.06	344.29	367.47
339.31	351.56	340.88	371.67	342.63	369.95	344.30	347.96
339.45	348.76	340.89	341.05	342.64	355.01	344.34	569.61
339.46	547.64	340.95	345.49	342.65	360.28	344.43	387.63
339.48	350.88	340.96	352.81	342.69	361.83	344.44	351.94
339.50	364.80	341.02	349.05	342.74	348.82	344.49	368.38
339.51	380.34	341.04	337.27	342.78	365.43	344.50	364.98
339.55	313.17	341.06	340.96	342.83	351.52	344.51	353.72
339.57	357.66	341.09	353.13	342.84	362.17	344.54	344.11
339.64	368.20	341.10	356.63	342.86	362.75	344.56	348.81
339.65	359.34	341.11	367.48	342.88	375.15	344.60	359.51
339.70	352.82	341.13	359.22	342.90	353.62	344.61	376.98
339.75	398.44	341.15	350.95	342.91	373.50	344.65	371.28
339.77	343.98	341.16	358.62	342.94	358.88	344.67	374.19
339.81	374.14	341.17	357.43	342.99	362.69	344.68	372.03
339.82	356.57	341.20	357.43	343.05	334.03	344.69	357.76
339.83	354.67	341.24	354.21	343.09	355.72	344.70	370.55
339.84	348.47	341.30	395.29	343.10	371.57	344.71	356.26
339.87	348.88	341.35	371.80	343.11	358.60	344.72	357.07
339.88	357.12	341.36	381.13	343.18	353.94	344.75	354.71
339.89	347.54	341.38	385.74	343.19	369.01	344.76	400.83
339.90	392.30	341.39	362.36	343.20	352.75	344.78	386.57
339.91	377.48	341.41	371.10	343.21	356.75	344.85	362.50
339.93	329.01	341.45	358.08	343.23	357.39	344.86	373.10
339.94	356.02	341.46	362.33	343.27	368.44	344.87	406.80
339.95	364.27	341.48	358.16	343.32	352.36	344.93	367.74
339.97	386.75	341.49	348.60	343.35	366.39	344.98	387.34
339.98	360.62	341.54	374.69	343.39	362.08	345.00	385.03
340.03	363.16	341.55	380.11	343.40	372.51	345.04	358.87
340.10	355.67	341.58	352.93	343.41	341.65	345.05	361.25
340.12	373.62	341.60	375.07	343.42	367.44	345.06	361.72
340.14	362.91	341.64	365.76	343.43	349.66	345.08	360.95
340.24	369.55	341.66	352.25	343.44	391.13	345.09	355.05
340.30	351.17	341.69	361.39	343.47	382.07	345.11	358.20
340.31	334.80	341.72	363.94	343.49	375.70	345.12	367.78
340.33	372.16	341.76	448.84	343.51	369.56	345.13	357.34
340.34	374.77	341.77	353.45	343.55	359.37	345.14	372.25
340.36	375.04	341.79	379.53	343.56	364.88	345.18	358.68
340.37	383.31	341.91	357.85	343.57	367.06	345.19	365.09
340.39	364.04	341.95	356.66	343.58	344.44	345.21	372.91
340.41	460.33	341.96	369.75	343.65	355.31	345.22	369.94
340.42	351.67	341.99	371.84	343.70	343.68	345.25	363.25
340.43	407.48	342.03	368.76	343.71	354.39	345.26	333.22
340.44	353.62	342.06	336.59	343.73	366.64	345.27	339.21
340.46	376.89	342.10	361.83	343.78	367.63	345.28	367.60

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
345.30	351.48	346.97	351.37	348.83	367.86	350.47	345.37
345.35	354.65	347.01	368.45	348.88	364.69	350.49	387.21
345.39	370.67	347.06	372.35	348.90	359.69	350.51	364.20
345.41	342.78	347.09	391.65	348.95	358.22	350.53	393.95
345.45	371.81	347.10	351.28	348.96	370.73	350.55	373.39
345.50	389.81	347.11	346.38	349.05	350.20	350.56	371.29
345.52	355.41	347.12	396.79	349.08	367.25	350.57	367.34
345.57	349.20	347.14	367.08	349.12	401.86	350.61	372.42
345.60	362.53	347.20	352.25	349.14	367.46	350.62	378.01
345.61	366.26	347.22	385.84	349.15	387.34	350.63	352.24
345.63	359.87	347.26	391.38	349.17	384.38	350.64	368.22
345.65	365.66	347.31	360.38	349.18	386.79	350.71	372.27
345.67	356.18	347.32	372.19	349.21	379.82	350.73	397.32
345.69	349.28	347.37	363.59	349.24	372.85	350.74	353.83
345.73	377.57	347.39	373.13	349.26	376.05	350.75	346.01
345.75	585.52	347.44	365.22	349.27	355.94	350.76	381.16
345.80	354.54	347.46	361.61	349.33	369.39	350.77	394.13
345.84	362.66	347.47	367.19	349.36	351.29	350.79	389.11
345.86	371.59	347.48	369.44	349.39	345.77	350.80	364.76
345.87	361.36	347.58	340.92	349.40	357.10	350.81	415.50
345.90	358.53	347.59	361.30	349.44	370.24	350.82	370.81
345.91	379.03	347.64	376.20	349.45	353.08	350.84	391.50
345.92	372.81	347.68	343.00	349.47	376.03	350.97	384.96
345.99	360.54	347.69	350.49	349.50	373.90	350.98	353.85
346.02	383.46	347.70	408.01	349.51	365.52	351.03	398.02
346.03	369.11	347.72	352.53	349.52	363.52	351.08	372.33
346.06	376.35	347.84	372.09	349.59	365.18	351.11	372.74
346.10	342.89	347.85	511.32	349.66	377.66	351.13	368.79
346.12	341.55	347.87	584.85	349.70	376.39	351.14	385.34
346.19	372.39	347.89	364.89	349.72	364.73	351.15	348.51
346.22	360.21	347.91	368.43	349.73	376.42	351.17	368.41
346.24	355.62	347.92	379.84	349.75	372.57	351.19	358.36
346.25	386.60	347.95	370.85	349.80	361.56	351.20	359.83
346.26	371.19	347.97	376.08	349.82	363.44	351.24	388.75
346.27	374.96	347.98	377.25	349.88	584.52	351.25	400.53
346.32	370.80	348.00	380.73	349.90	371.11	351.26	369.84
346.33	377.85	348.03	362.77	349.94	362.31	351.27	371.52
346.38	400.30	348.04	386.64	349.99	369.13	351.29	374.30
346.40	348.61	348.05	379.66	350.01	370.26	351.31	377.71
346.42	377.28	348.10	362.78	350.02	373.38	351.33	360.48
346.45	380.51	348.11	379.21	350.07	373.22	351.35	370.97
346.51	339.23	348.14	395.56	350.11	367.59	351.36	390.22
346.58	340.43	348.16	351.52	350.15	340.53	351.38	363.83
346.60	357.87	348.19	366.68	350.19	380.46	351.41	375.79
346.62	363.03	348.22	367.40	350.20	384.97	351.42	344.36
346.63	314.20	348.24	372.96	350.21	377.04	351.43	345.61
346.66	359.33	348.25	366.59	350.23	368.40	351.47	362.93
346.67	375.58	348.26	342.71	350.24	381.35	351.48	389.47
346.69	365.81	348.31	367.81	350.25	369.94	351.49	374.92
346.70	388.97	348.34	349.16	350.26	398.49	351.50	372.24
346.74	377.04	348.39	381.02	350.27	372.71	351.51	370.75
346.75	370.72	348.42	366.46	350.30	373.24	351.54	376.18
346.78	350.95	348.48	369.23	350.34	362.19	351.55	371.51
346.79	398.23	348.52	398.67	350.36	369.96	351.57	387.06
346.81	390.77	348.53	382.98	350.37	367.08	351.59	361.21
346.84	377.30	348.55	347.63	350.39	378.85	351.60	350.99
346.86	368.52	348.67	479.03	350.40	389.08	351.62	375.69
346.87	367.10	348.71	367.86	350.41	384.34	351.66	374.44
346.94	365.68	348.76	374.89	350.42	344.80	351.67	375.83
346.96	358.94	348.80	361.77	350.44	365.07	351.68	369.61

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
351.70	367.39	352.97	370.60	354.23	364.50	355.81	390.96
351.71	374.19	352.98	369.29	354.24	388.22	355.82	358.13
351.78	374.16	352.99	366.93	354.25	539.12	355.84	376.43
351.79	377.57	353.00	349.80	354.26	367.08	355.88	365.43
351.85	378.20	353.04	378.28	354.31	347.25	355.92	385.97
351.86	363.83	353.05	362.69	354.32	367.41	355.97	443.84
351.87	359.47	353.08	380.28	354.35	380.99	356.00	364.69
351.89	379.73	353.15	364.58	354.43	412.33	356.02	400.56
351.90	358.83	353.20	365.92	354.45	374.12	356.04	369.16
351.97	360.59	353.21	389.28	354.46	369.05	356.05	400.77
351.98	371.81	353.22	365.16	354.49	383.78	356.08	414.92
352.00	368.20	353.23	366.97	354.51	344.45	356.09	375.62
352.02	367.88	353.25	388.04	354.54	584.56	356.10	370.73
352.03	345.95	353.26	378.74	354.55	378.08	356.12	359.79
352.06	376.11	353.28	373.28	354.56	368.34	356.13	378.28
352.09	371.48	353.29	379.71	354.66	366.43	356.15	361.26
352.11	376.64	353.30	365.41	354.70	384.17	356.16	350.08
352.13	379.00	353.33	360.42	354.71	388.30	356.19	359.46
352.14	384.48	353.34	357.72	354.72	388.49	356.23	370.02
352.16	371.45	353.36	380.24	354.74	382.62	356.27	349.70
352.19	365.01	353.38	374.34	354.83	400.14	356.28	400.11
352.24	378.14	353.39	365.22	354.87	385.08	356.29	367.05
352.25	364.24	353.40	376.28	354.89	391.47	356.31	359.31
352.27	367.40	353.47	723.89	354.90	396.33	356.32	379.42
352.28	363.38	353.48	352.40	354.93	388.91	356.33	374.44
352.29	357.01	353.50	352.03	354.96	379.69	356.34	369.10
352.30	374.48	353.51	370.14	354.99	380.06	356.36	367.94
352.31	354.56	353.52	360.78	355.01	375.82	356.38	385.88
352.32	355.66	353.53	386.27	355.03	387.25	356.39	395.46
352.37	381.95	353.54	386.38	355.04	382.60	356.43	373.44
352.38	400.81	353.55	382.28	355.06	365.11	356.45	373.80
352.40	366.68	353.58	353.55	355.07	358.32	356.48	377.26
352.41	371.91	353.61	374.20	355.08	381.20	356.49	367.50
352.43	376.48	353.63	362.12	355.09	358.58	356.55	394.62
352.44	362.53	353.65	371.65	355.10	379.93	356.57	389.86
352.46	357.84	353.70	346.99	355.13	370.11	356.58	376.95
352.51	350.01	353.71	356.82	355.16	360.30	356.63	359.46
352.53	342.68	353.72	377.24	355.17	376.15	356.67	391.94
352.54	356.31	353.74	373.93	355.18	374.00	356.69	410.88
352.55	351.94	353.75	373.68	355.19	364.48	356.70	368.12
352.56	345.22	353.76	400.67	355.21	366.14	356.71	351.74
352.57	369.50	353.79	384.03	355.22	361.92	356.72	373.53
352.60	378.07	353.80	383.18	355.26	378.97	356.73	363.85
352.61	381.62	353.83	356.87	355.29	366.86	356.76	368.94
352.62	372.65	353.84	393.21	355.31	392.29	356.77	345.14
352.63	350.28	353.85	387.64	355.32	361.68	356.79	369.58
352.66	365.80	353.87	346.66	355.44	371.37	356.81	385.03
352.67	383.04	353.89	380.96	355.49	380.95	356.90	396.61
352.68	372.95	353.92	365.24	355.51	358.80	356.91	357.77
352.73	368.14	353.94	375.98	355.54	356.50	356.92	361.16
352.74	373.19	353.98	375.47	355.56	368.53	356.94	388.53
352.75	385.19	354.00	373.72	355.58	381.67	356.98	373.26
352.78	379.50	354.01	365.15	355.65	379.19	357.04	550.56
352.80	376.50	354.02	383.02	355.66	391.18	357.06	358.82
352.81	355.32	354.07	352.51	355.67	370.57	357.07	389.53
352.83	364.76	354.08	380.54	355.70	392.64	357.08	394.15
352.86	367.45	354.14	380.62	355.73	369.13	357.09	389.57
352.89	347.93	354.16	372.48	355.76	378.17	357.15	584.32
352.92	353.95	354.19	376.97	355.77	379.94	357.20	369.52
352.96	455.57	354.20	359.78	355.79	411.29	357.23	384.91



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
357.25	366.33	358.60	375.30	360.04	383.66	361.40	393.99
357.27	348.83	358.62	388.79	360.05	370.21	361.41	414.99
357.29	379.59	358.64	388.69	360.06	419.57	361.42	377.24
357.31	385.99	358.66	386.48	360.11	345.67	361.44	383.90
357.36	372.94	358.69	373.05	360.12	388.07	361.45	380.11
357.39	374.54	358.71	366.04	360.13	586.22	361.46	426.06
357.41	364.85	358.78	355.94	360.14	377.47	361.48	383.41
357.44	357.27	358.79	376.67	360.15	372.91	361.54	374.80
357.47	372.46	358.80	366.45	360.16	399.60	361.55	388.25
357.48	373.77	358.84	392.89	360.17	380.24	361.57	379.30
357.49	372.06	358.85	376.73	360.29	354.21	361.62	386.80
357.50	354.81	358.86	367.62	360.30	381.82	361.63	373.43
357.55	369.41	358.88	386.72	360.32	381.47	361.65	369.38
357.59	360.12	358.89	379.15	360.38	421.44	361.67	409.40
357.60	365.84	358.92	416.23	360.42	382.87	361.68	366.70
357.62	362.09	358.93	375.47	360.44	376.27	361.69	370.66
357.64	375.04	358.96	375.87	360.48	404.33	361.74	383.36
357.65	374.50	358.97	378.33	360.49	617.78	361.79	388.08
357.66	373.70	359.00	372.91	360.50	383.53	361.81	406.89
357.67	370.72	359.04	416.17	360.57	375.78	361.83	393.23
357.71	380.36	359.05	375.26	360.59	366.25	361.84	574.18
357.72	388.57	359.06	376.32	360.64	382.92	361.87	379.96
357.73	396.20	359.07	385.90	360.65	362.57	361.93	390.36
357.78	385.36	359.11	378.69	360.67	382.68	361.94	384.95
357.79	378.78	359.12	381.57	360.69	393.39	361.96	396.16
357.81	374.85	359.16	370.08	360.70	371.98	361.99	386.02
357.82	381.86	359.17	386.24	360.72	376.43	362.00	375.94
357.84	405.40	359.18	387.00	360.73	379.61	362.02	586.81
357.86	381.68	359.19	364.83	360.74	509.66	362.03	398.66
357.87	380.16	359.21	381.54	360.79	351.94	362.06	371.75
357.88	385.56	359.22	382.25	360.80	385.42	362.08	364.97
357.90	387.45	359.23	363.00	360.82	382.55	362.09	382.78
357.93	373.51	359.25	355.63	360.83	384.38	362.10	518.63
357.94	388.48	359.30	391.08	360.90	376.40	362.12	369.75
357.97	383.43	359.33	387.58	360.91	393.39	362.13	383.61
358.01	375.63	359.34	347.83	360.92	391.70	362.14	387.67
358.02	377.51	359.36	399.81	360.94	418.46	362.16	404.41
358.05	374.21	359.39	380.30	360.95	393.94	362.17	373.91
358.06	370.82	359.41	366.93	360.97	368.35	362.19	381.39
358.09	369.21	359.42	390.41	360.99	388.19	362.20	537.71
358.12	381.84	359.47	373.96	361.00	381.30	362.21	368.25
358.13	377.93	359.52	376.00	361.03	367.49	362.23	394.60
358.14	386.39	359.57	381.93	361.07	373.09	362.24	364.03
358.17	376.48	359.59	381.32	361.08	374.92	362.27	387.23
358.22	356.05	359.61	389.46	361.10	366.71	362.30	379.13
358.27	387.33	359.63	354.46	361.12	374.02	362.32	389.18
358.31	377.77	359.64	390.00	361.15	389.49	362.34	585.99
358.34	373.71	359.65	384.28	361.18	376.24	362.36	389.51
358.35	381.57	359.66	380.75	361.20	402.09	362.38	387.97
358.37	368.75	359.73	375.22	361.24	377.15	362.40	373.54
358.39	388.01	359.74	381.04	361.26	384.54	362.44	379.09
358.41	366.80	359.75	396.88	361.27	377.96	362.45	366.86
358.42	371.70	359.83	372.26	361.28	389.08	362.46	391.51
358.43	374.74	359.84	384.29	361.29	407.35	362.48	383.16
358.46	370.17	359.85	357.66	361.30	415.21	362.52	377.11
358.47	384.13	359.88	400.65	361.32	380.40	362.56	358.17
358.48	398.86	359.90	370.95	361.33	374.09	362.58	382.61
358.49	354.81	359.96	398.60	361.34	376.19	362.60	382.21
358.51	382.35	359.97	392.36	361.36	380.97	362.63	361.69
358.53	374.43	360.02	395.35	361.37	373.36	362.64	372.06

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
362.65	368.79	363.95	380.13	365.11	375.45	366.58	430.81
362.66	386.22	363.96	375.49	365.13	382.81	366.59	380.44
362.67	395.65	363.99	391.95	365.16	394.36	366.61	390.24
362.68	360.80	364.01	396.99	365.22	386.58	366.69	408.75
362.69	376.03	364.04	392.37	365.26	374.77	366.72	387.54
362.70	380.40	364.05	387.80	365.29	381.59	366.73	400.52
362.75	383.21	364.07	390.58	365.31	392.78	366.75	387.58
362.76	354.62	364.08	379.53	365.33	369.99	366.76	365.15
362.77	378.34	364.09	385.70	365.35	400.31	366.81	411.72
362.78	374.43	364.14	382.67	365.36	383.07	366.82	380.34
362.85	381.97	364.16	386.11	365.38	381.73	366.91	384.29
362.87	386.15	364.19	387.51	365.39	377.23	366.92	417.90
362.91	419.33	364.20	377.18	365.42	369.41	366.93	390.84
362.99	385.30	364.23	397.33	365.44	391.44	366.97	430.72
363.01	383.54	364.25	379.15	365.45	397.87	366.98	392.97
363.02	362.89	364.27	376.52	365.48	392.57	367.00	384.92
363.03	382.30	364.29	378.37	365.49	381.88	367.07	367.17
363.04	380.24	364.32	394.23	365.53	405.58	367.09	390.56
363.06	397.59	364.33	370.51	365.54	383.43	367.12	381.66
363.07	373.66	364.36	386.62	365.56	367.95	367.14	393.23
363.09	386.45	364.37	391.47	365.66	406.97	367.18	395.54
363.10	388.54	364.40	363.79	365.72	372.55	367.19	386.02
363.12	373.45	364.43	379.41	365.73	385.59	367.23	378.07
363.15	386.87	364.45	384.66	365.78	414.61	367.24	393.62
363.17	383.38	364.48	374.68	365.79	398.24	367.26	391.07
363.19	390.58	364.49	374.77	365.81	382.58	367.27	394.27
363.21	388.03	364.50	366.09	365.84	394.57	367.28	376.24
363.22	379.31	364.51	381.46	365.89	388.82	367.30	367.68
363.23	374.96	364.52	397.53	365.91	381.93	367.31	375.10
363.24	376.00	364.56	373.20	365.95	381.00	367.33	366.88
363.27	383.76	364.57	368.61	365.96	365.03	367.36	394.83
363.28	389.58	364.58	378.74	365.97	371.58	367.38	398.19
363.29	386.39	364.59	366.57	366.04	584.81	367.43	379.81
363.30	381.67	364.61	363.35	366.05	408.78	367.44	396.36
363.34	384.86	364.62	366.55	366.06	377.08	367.46	378.71
363.38	383.91	364.63	389.56	366.08	379.65	367.47	378.12
363.39	410.24	364.64	363.72	366.12	418.28	367.48	403.33
363.41	391.61	364.69	368.41	366.19	359.45	367.50	376.26
363.43	385.76	364.70	382.22	366.22	378.61	367.51	366.44
363.45	407.75	364.72	405.17	366.24	380.67	367.58	401.88
363.48	378.86	364.75	394.98	366.26	371.94	367.59	585.84
363.49	382.86	364.77	343.92	366.29	388.63	367.60	380.60
363.50	391.20	364.78	403.65	366.31	405.62	367.63	398.98
363.51	396.69	364.79	370.45	366.33	379.59	367.65	385.02
363.52	393.12	364.80	375.08	366.36	386.13	367.70	381.24
363.55	376.72	364.82	388.41	366.37	371.63	367.72	400.14
363.58	398.82	364.83	400.82	366.39	389.29	367.73	382.88
363.60	381.02	364.85	536.12	366.40	368.88	367.74	387.02
363.63	373.39	364.88	371.02	366.43	349.81	367.79	423.71
363.64	378.41	364.89	365.99	366.44	390.13	367.80	390.84
363.67	370.77	364.92	394.19	366.45	379.80	367.84	383.84
363.70	401.76	364.94	397.83	366.46	397.31	367.86	396.42
363.73	419.66	364.95	389.66	366.47	404.90	367.89	351.60
363.77	417.14	364.96	381.42	366.49	387.40	367.91	396.50
363.78	376.48	364.98	378.72	366.50	381.69	367.92	305.74
363.80	387.00	364.99	389.37	366.51	396.26	367.93	395.08
363.82	417.07	365.02	389.31	366.52	384.84	367.94	365.61
363.84	397.06	365.03	379.39	366.55	386.49	367.95	413.21
363.86	394.53	365.04	380.69	366.56	394.58	367.96	377.59
363.91	389.14	365.05	400.40	366.57	393.58	367.98	386.42

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
368.00	383.53	369.22	385.31	370.27	634.42	371.52	394.43
368.04	383.67	369.23	357.14	370.28	396.27	371.54	391.64
368.05	384.37	369.24	388.39	370.30	422.90	371.55	392.20
368.06	388.16	369.25	393.34	370.34	389.15	371.57	395.81
368.07	374.00	369.26	421.89	370.35	402.91	371.58	586.42
368.10	385.06	369.27	383.38	370.36	379.59	371.60	580.28
368.12	388.68	369.29	391.18	370.37	391.53	371.61	381.65
368.13	370.66	369.30	389.78	370.39	401.45	371.62	393.55
368.15	380.95	369.33	396.61	370.40	391.34	371.64	392.01
368.17	400.45	369.35	390.30	370.41	352.08	371.65	390.65
368.20	392.00	369.36	428.34	370.43	387.32	371.66	428.93
368.21	382.42	369.37	400.61	370.47	395.76	371.67	414.99
368.24	405.49	369.39	383.45	370.48	394.88	371.69	395.13
368.26	398.58	369.40	403.84	370.50	371.17	371.71	409.15
368.30	371.54	369.41	393.91	370.51	391.58	371.72	422.23
368.31	416.08	369.42	377.05	370.52	399.36	371.80	394.35
368.33	374.12	369.43	405.69	370.53	400.33	371.83	393.50
368.35	390.29	369.44	386.38	370.59	378.50	371.85	370.34
368.37	393.26	369.45	393.03	370.60	375.91	371.88	389.10
368.39	403.63	369.46	394.45	370.61	390.43	371.89	376.85
368.40	406.94	369.50	406.47	370.62	411.94	371.90	401.45
368.41	371.48	369.51	378.96	370.64	392.27	371.91	396.86
368.45	389.38	369.52	386.32	370.65	394.23	371.94	386.32
368.49	390.32	369.56	389.71	370.66	385.86	371.96	391.56
368.50	394.16	369.57	462.41	370.68	390.21	371.97	402.39
368.51	386.48	369.58	405.93	370.69	383.21	371.98	387.90
368.52	363.24	369.60	424.88	370.71	394.20	371.99	515.76
368.53	379.64	369.62	397.69	370.77	396.25	372.00	407.43
368.54	379.50	369.64	438.19	370.79	353.51	372.01	394.20
368.57	382.89	369.65	397.44	370.80	383.81	372.02	392.69
368.58	359.43	369.73	418.92	370.81	378.37	372.04	397.89
368.59	383.93	369.75	388.20	370.83	390.94	372.10	389.80
368.62	362.72	369.77	398.36	370.84	396.62	372.11	394.86
368.63	396.71	369.78	394.44	370.85	392.21	372.12	391.39
368.67	401.17	369.79	367.95	370.90	389.71	372.13	391.24
368.68	397.55	369.80	370.57	370.91	369.81	372.14	382.95
368.70	408.50	369.81	392.15	370.94	395.01	372.17	395.13
368.71	374.08	369.83	396.66	370.99	400.29	372.19	389.55
368.72	380.51	369.85	378.91	371.00	383.53	372.20	375.18
368.74	361.35	369.87	382.46	371.02	410.74	372.21	387.58
368.75	382.33	369.88	388.35	371.03	406.61	372.23	428.44
368.82	403.75	369.89	386.38	371.04	425.50	372.24	395.11
368.83	371.69	369.94	388.13	371.05	395.41	372.25	377.27
368.88	366.78	369.98	390.20	371.07	387.11	372.27	395.26
368.90	369.03	370.00	374.62	371.12	382.52	372.29	396.09
368.95	380.76	370.01	382.57	371.13	395.28	372.36	399.91
368.96	423.80	370.09	407.46	371.14	376.11	372.40	397.32
368.97	373.03	370.11	379.66	371.15	384.28	372.43	381.44
368.99	377.00	370.12	408.61	371.19	411.13	372.46	486.99
369.02	383.68	370.14	385.88	371.21	384.68	372.48	374.16
369.03	391.86	370.16	375.58	371.23	362.59	372.50	380.38
369.11	391.73	370.17	400.23	371.28	419.63	372.51	397.06
369.12	386.70	370.18	401.30	371.30	388.56	372.52	393.84
369.13	394.62	370.19	409.61	371.31	379.83	372.55	427.07
369.14	379.22	370.20	377.03	371.42	380.21	372.56	431.14
369.15	393.68	370.22	368.65	371.43	404.20	372.61	382.40
369.16	381.97	370.23	376.59	371.46	397.60	372.62	390.09
369.17	384.29	370.24	390.16	371.47	423.40	372.64	397.06
369.19	385.67	370.25	395.78	371.49	380.41	372.65	397.82
369.21	385.45	370.26	383.03	371.50	359.82	372.66	387.11

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
372.67	422.91	373.66	395.32	375.13	400.48	376.23	441.70
372.69	399.96	373.70	387.16	375.14	402.07	376.25	391.48
372.73	376.12	373.73	382.58	375.16	388.19	376.26	372.30
372.75	389.10	373.76	376.05	375.18	402.70	376.29	381.71
372.76	406.98	373.77	398.92	375.21	391.14	376.31	404.84
372.79	388.72	373.80	381.91	375.22	434.65	376.32	384.86
372.81	379.13	373.81	386.21	375.23	385.31	376.34	397.98
372.82	396.44	373.82	434.24	375.25	393.77	376.35	403.77
372.83	389.26	373.83	391.75	375.26	395.23	376.36	393.22
372.84	400.14	373.84	403.16	375.28	386.10	376.38	385.86
372.85	379.72	373.87	460.69	375.29	412.83	376.39	417.76
372.86	401.23	373.89	435.13	375.30	385.98	376.40	390.10
372.87	388.07	373.92	394.93	375.31	408.30	376.42	395.74
372.88	406.48	373.95	393.39	375.32	412.29	376.44	403.27
372.90	393.36	373.96	402.93	375.34	380.66	376.45	392.94
372.91	394.56	373.97	408.42	375.35	390.93	376.48	408.00
372.92	390.55	373.98	383.93	375.38	403.79	376.49	388.62
372.93	404.24	373.99	403.67	375.42	392.21	376.51	684.66
372.95	364.03	374.00	392.26	375.43	384.64	376.52	396.77
372.97	406.20	374.01	394.42	375.44	390.45	376.53	385.85
373.01	388.59	374.10	364.09	375.45	404.83	376.54	409.97
373.02	411.81	374.15	384.80	375.49	382.12	376.58	396.60
373.03	401.84	374.18	398.43	375.54	396.86	376.62	322.33
373.04	386.68	374.19	385.24	375.55	395.38	376.64	413.02
373.05	398.21	374.20	396.48	375.59	395.92	376.65	437.20
373.07	391.63	374.21	400.32	375.61	382.34	376.66	396.33
373.08	377.98	374.25	386.75	375.63	389.77	376.67	397.54
373.09	385.53	374.27	367.14	375.64	390.67	376.68	378.10
373.10	377.43	374.28	390.09	375.66	390.40	376.69	391.91
373.11	404.33	374.29	389.16	375.68	377.63	376.70	392.14
373.13	380.83	374.30	382.55	375.70	400.27	376.72	392.84
373.14	392.31	374.32	397.63	375.72	386.59	376.73	586.94
373.16	396.29	374.33	407.89	375.73	402.39	376.74	396.71
373.17	393.38	374.36	385.30	375.74	378.86	376.75	391.51
373.18	400.02	374.37	380.09	375.75	391.31	376.76	375.13
373.19	371.40	374.39	403.91	375.76	399.12	376.77	400.75
373.22	375.55	374.44	394.26	375.78	380.06	376.80	387.59
373.23	394.02	374.45	390.53	375.79	402.44	376.81	384.50
373.25	407.85	374.46	364.09	375.81	381.33	376.82	394.09
373.26	397.32	374.47	412.65	375.82	400.60	376.84	412.05
373.29	395.45	374.50	391.57	375.90	400.56	376.85	369.23
373.30	383.94	374.56	389.91	375.92	394.55	376.86	375.32
373.31	355.53	374.58	399.28	375.93	431.16	376.87	375.11
373.32	388.42	374.59	389.84	375.95	391.45	376.92	400.58
373.33	389.03	374.61	380.65	375.98	401.11	376.93	396.43
373.35	391.06	374.66	397.60	376.00	381.86	376.94	386.26
373.36	385.92	374.68	372.72	376.02	386.84	376.95	395.85
373.38	400.32	374.70	392.84	376.03	400.55	376.97	403.60
373.40	383.82	374.71	392.09	376.05	382.18	377.02	407.86
373.43	386.88	374.74	386.77	376.08	388.47	377.03	373.56
373.44	381.80	374.77	394.33	376.09	396.04	377.04	408.84
373.48	398.65	374.89	426.86	376.10	427.20	377.05	421.22
373.49	403.88	374.90	390.40	376.13	393.75	377.07	421.78
373.52	398.13	374.94	406.67	376.15	383.95	377.08	396.89
373.53	392.04	374.95	403.59	376.16	398.78	377.09	378.19
373.55	412.18	375.01	391.21	376.17	390.44	377.13	586.73
373.59	424.04	375.03	393.08	376.18	383.68	377.15	402.22
373.62	393.55	375.06	395.04	376.19	381.82	377.17	379.03
373.64	377.76	375.08	397.83	376.21	483.40	377.20	407.55
373.65	379.17	375.09	397.82	376.22	401.97	377.21	388.79

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
377.22	399.78	378.40	392.54	379.57	406.16	380.72	414.52
377.23	392.73	378.44	384.40	379.58	387.13	380.76	389.25
377.25	390.98	378.47	428.30	379.63	366.48	380.80	379.48
377.26	396.34	378.48	404.76	379.65	404.01	380.81	403.44
377.27	381.96	378.49	411.07	379.66	402.21	380.84	401.13
377.28	394.95	378.51	400.07	379.68	401.85	380.85	402.81
377.33	405.27	378.53	388.40	379.69	383.60	380.86	395.97
377.39	388.83	378.54	384.94	379.71	400.39	380.87	396.42
377.40	390.07	378.55	397.13	379.74	384.41	380.88	398.98
377.47	400.45	378.57	384.53	379.75	425.41	380.90	384.40
377.49	405.34	378.69	394.70	379.76	385.87	380.92	395.12
377.50	476.43	378.70	430.55	379.77	404.12	380.95	413.52
377.53	586.93	378.72	407.68	379.78	379.56	380.96	402.13
377.54	401.30	378.74	407.06	379.80	395.64	380.97	388.70
377.59	411.00	378.75	408.57	379.83	401.35	381.01	463.13
377.61	381.62	378.79	394.70	379.85	426.91	381.02	382.57
377.62	389.60	378.80	411.90	379.87	396.09	381.03	390.28
377.68	393.25	378.81	414.26	379.88	582.26	381.04	402.92
377.69	399.32	378.84	390.42	379.90	419.97	381.05	389.76
377.70	431.88	378.88	403.27	379.93	408.74	381.08	393.31
377.75	393.94	378.89	405.10	379.94	412.19	381.09	390.92
377.76	397.99	378.91	406.73	379.95	405.03	381.11	411.40
377.77	409.83	378.93	372.05	379.97	391.03	381.18	409.41
377.78	404.88	378.94	397.03	379.98	397.80	381.20	414.46
377.80	390.68	378.95	415.17	379.99	405.47	381.21	378.55
377.82	387.80	378.97	408.09	380.00	402.35	381.22	387.79
377.86	590.74	378.98	439.10	380.01	393.72	381.23	398.39
377.87	393.24	379.00	409.63	380.08	395.92	381.25	408.55
377.89	433.71	379.03	586.72	380.13	410.26	381.26	404.63
377.92	394.37	379.04	408.74	380.15	394.38	381.29	388.66
377.93	581.28	379.05	408.56	380.17	410.73	381.30	415.66
377.95	381.92	379.09	390.09	380.18	409.26	381.31	388.70
377.96	375.50	379.12	402.13	380.19	408.74	381.33	414.51
377.98	401.42	379.14	385.32	380.22	407.45	381.34	387.84
377.99	389.36	379.15	401.36	380.23	400.02	381.36	400.45
378.01	399.31	379.17	415.91	380.25	394.62	381.38	384.59
378.03	391.43	379.18	437.08	380.30	391.09	381.39	386.33
378.05	409.91	379.21	400.16	380.31	397.15	381.41	389.03
378.06	387.32	379.22	636.83	380.33	421.13	381.42	434.72
378.07	409.38	379.24	388.49	380.35	413.60	381.43	416.85
378.08	395.25	379.26	405.98	380.38	434.50	381.44	448.26
378.09	391.35	379.28	402.66	380.40	391.48	381.45	406.90
378.10	396.54	379.29	392.22	380.41	399.51	381.46	392.61
378.11	401.92	379.33	406.06	380.45	410.94	381.47	395.62
378.13	394.84	379.35	415.72	380.47	403.00	381.53	388.36
378.15	398.46	379.36	369.29	380.48	386.27	381.55	399.77
378.17	428.47	379.37	389.88	380.50	391.15	381.56	389.42
378.18	429.92	379.38	419.06	380.52	404.71	381.57	398.35
378.20	399.69	379.39	384.35	380.53	373.24	381.58	383.15
378.22	399.95	379.40	381.87	380.54	396.48	381.59	421.28
378.23	397.83	379.41	413.02	380.56	408.84	381.64	399.26
378.28	396.74	379.45	551.49	380.58	380.21	381.66	397.55
378.29	388.90	379.48	395.71	380.59	399.92	381.67	405.34
378.30	388.91	379.49	572.82	380.61	387.99	381.68	397.29
378.31	394.92	379.50	412.72	380.63	408.26	381.73	392.72
378.33	386.42	379.51	423.07	380.66	398.42	381.78	397.51
378.34	393.84	379.52	383.61	380.67	400.86	381.79	399.67
378.35	396.61	379.54	390.66	380.68	403.91	381.80	395.97
378.36	395.61	379.55	384.75	380.69	393.17	381.81	402.78
378.37	375.64	379.56	388.20	380.71	403.84	381.82	407.11

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
381.87	389.45	382.95	390.98	384.23	395.85	385.40	430.34
381.90	398.77	382.98	412.49	384.24	412.36	385.44	405.23
381.93	391.95	382.99	446.48	384.25	399.49	385.45	407.47
381.95	407.50	383.01	409.55	384.26	389.98	385.46	401.09
381.98	402.55	383.02	399.57	384.27	439.57	385.47	408.10
382.00	376.68	383.03	400.99	384.28	439.23	385.49	407.50
382.01	404.40	383.04	588.65	384.29	393.21	385.51	422.87
382.02	405.48	383.05	406.37	384.30	408.49	385.53	427.70
382.03	399.44	383.06	400.89	384.31	407.97	385.57	407.00
382.04	388.60	383.10	559.14	384.32	418.79	385.60	394.42
382.08	516.61	383.12	377.24	384.33	406.50	385.62	382.70
382.09	414.59	383.14	401.68	384.34	395.92	385.63	398.17
382.10	409.61	383.15	437.02	384.37	451.51	385.64	435.77
382.12	426.89	383.16	381.25	384.41	394.18	385.66	445.94
382.14	398.05	383.17	413.02	384.42	395.06	385.70	404.44
382.15	394.07	383.18	404.34	384.45	404.82	385.71	411.96
382.16	419.08	383.19	398.91	384.47	409.15	385.72	394.02
382.17	437.24	383.20	388.76	384.48	399.89	385.76	421.89
382.19	390.22	383.21	381.59	384.50	423.32	385.78	399.66
382.22	416.71	383.23	417.87	384.51	405.92	385.79	410.14
382.23	433.47	383.24	398.15	384.53	380.24	385.87	423.52
382.24	401.30	383.25	401.68	384.56	405.17	385.89	401.58
382.25	384.23	383.31	394.32	384.58	416.79	385.90	415.54
382.27	399.73	383.32	410.37	384.59	406.02	385.93	401.81
382.28	391.90	383.34	423.09	384.62	401.83	385.94	407.69
382.29	397.10	383.36	381.89	384.65	398.09	385.95	404.50
382.30	420.45	383.37	397.11	384.69	412.05	385.98	380.94
382.31	392.32	383.39	400.55	384.70	401.04	386.00	417.09
382.36	410.42	383.40	396.99	384.73	382.27	386.01	393.68
382.37	466.37	383.41	481.47	384.74	389.88	386.03	394.56
382.39	400.39	383.44	408.39	384.75	395.61	386.06	393.46
382.40	390.98	383.45	408.33	384.77	380.43	386.08	434.30
382.41	396.31	383.52	450.40	384.84	409.27	386.11	405.47
382.42	406.68	383.53	390.96	384.86	404.34	386.13	407.23
382.45	380.12	383.57	415.47	384.90	402.06	386.14	393.22
382.49	412.10	383.58	393.18	384.93	392.23	386.16	387.19
382.50	392.62	383.60	405.81	384.94	414.91	386.17	410.92
382.53	392.87	383.63	401.74	384.95	385.82	386.18	403.47
382.56	412.64	383.66	387.50	384.96	398.36	386.19	412.42
382.57	403.60	383.68	402.58	384.97	581.62	386.22	420.71
382.58	588.74	383.73	391.01	385.00	390.13	386.23	416.94
382.59	388.35	383.76	403.46	385.02	382.87	386.29	395.23
382.64	378.89	383.78	396.10	385.03	407.49	386.30	432.43
382.65	384.62	383.79	403.98	385.05	395.45	386.31	390.49
382.66	410.24	383.81	417.85	385.08	399.08	386.32	434.61
382.68	389.64	383.84	399.80	385.09	397.69	386.33	394.86
382.70	462.56	383.88	425.06	385.10	398.58	386.37	414.94
382.71	403.26	383.89	396.10	385.13	405.53	386.38	401.82
382.72	382.56	383.91	406.85	385.14	420.77	386.39	411.80
382.74	403.79	383.92	437.99	385.15	401.07	386.40	391.19
382.78	401.98	383.94	409.55	385.17	572.89	386.42	391.61
382.79	402.22	383.95	398.11	385.20	402.65	386.44	395.88
382.81	415.80	383.96	513.01	385.22	404.72	386.46	387.26
382.83	395.68	383.98	411.59	385.25	384.19	386.48	419.47
382.85	404.33	384.05	586.53	385.26	386.61	386.50	411.00
382.86	401.01	384.07	403.07	385.27	407.02	386.53	401.72
382.87	393.00	384.10	410.35	385.29	407.90	386.54	401.15
382.89	424.69	384.13	384.96	385.32	430.37	386.55	393.31
382.90	395.20	384.16	402.80	385.35	405.84	386.56	423.13
382.94	389.21	384.19	391.98	385.39	384.79	386.59	399.52

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
386.60	404.54	387.79	406.95	388.81	402.02	389.91	399.06
386.61	394.77	387.80	389.24	388.82	393.12	389.93	413.40
386.63	392.69	387.81	408.88	388.83	401.64	389.94	403.04
386.66	485.58	387.82	410.42	388.85	415.77	390.00	388.60
386.68	437.49	387.84	387.60	388.86	403.72	390.01	408.73
386.69	406.02	387.85	383.71	388.88	386.44	390.05	409.51
386.72	398.75	387.86	399.75	388.89	407.28	390.06	417.64
386.73	412.78	387.88	395.32	388.90	411.38	390.08	409.37
386.75	400.16	387.91	406.07	388.92	411.14	390.09	462.66
386.77	447.15	387.92	416.81	388.93	391.52	390.12	401.55
386.83	424.30	387.93	405.79	388.95	409.18	390.14	408.23
386.84	387.48	387.95	390.43	388.97	431.91	390.15	407.33
386.88	426.64	387.96	437.40	388.99	415.60	390.16	388.43
386.92	386.71	388.02	406.45	389.00	412.87	390.17	387.03
386.93	410.31	388.03	399.09	389.04	400.50	390.24	406.06
386.94	404.86	388.04	384.62	389.06	409.84	390.26	444.72
386.98	406.72	388.05	399.89	389.10	417.08	390.27	397.96
386.99	394.51	388.06	400.98	389.12	402.14	390.29	580.63
387.00	411.37	388.07	388.89	389.13	590.23	390.30	405.72
387.07	412.77	388.08	406.82	389.14	403.29	390.32	392.94
387.11	587.71	388.11	410.29	389.15	422.60	390.34	403.49
387.12	397.74	388.13	409.57	389.16	415.63	390.36	407.61
387.13	426.15	388.14	589.30	389.17	394.68	390.38	421.55
387.14	406.96	388.15	399.21	389.20	425.44	390.39	394.12
387.21	401.59	388.16	394.64	389.23	386.43	390.40	411.33
387.23	413.35	388.18	427.42	389.25	391.97	390.43	409.95
387.28	416.47	388.21	423.13	389.26	400.64	390.46	414.89
387.29	417.52	388.22	413.10	389.27	401.64	390.48	430.37
387.30	409.52	388.24	391.42	389.29	412.11	390.49	412.93
387.34	387.72	388.25	400.26	389.30	401.89	390.50	409.25
387.35	434.64	388.26	392.87	389.31	400.86	390.51	402.60
387.36	410.61	388.27	434.64	389.33	424.13	390.52	452.49
387.37	392.01	388.29	428.53	389.35	589.45	390.54	401.34
387.38	393.26	388.30	400.41	389.37	401.93	390.55	397.94
387.39	390.57	388.31	408.51	389.38	399.42	390.57	423.04
387.40	412.44	388.34	401.12	389.41	406.17	390.58	403.42
387.44	414.21	388.37	402.82	389.47	410.84	390.59	415.24
387.47	586.69	388.38	404.92	389.49	405.28	390.60	412.56
387.50	388.86	388.42	406.48	389.50	411.18	390.62	402.54
387.52	534.58	388.46	420.57	389.51	429.71	390.64	420.24
387.54	404.22	388.47	410.99	389.53	409.36	390.65	413.99
387.55	423.44	388.50	409.76	389.54	400.15	390.66	416.84
387.58	397.85	388.52	383.01	389.55	412.53	390.69	406.27
387.59	399.85	388.54	404.50	389.59	409.44	390.71	404.34
387.60	410.35	388.55	393.48	389.63	434.85	390.73	400.48
387.62	402.79	388.57	419.62	389.64	423.48	390.75	419.51
387.63	401.63	388.58	403.65	389.66	425.97	390.76	420.78
387.64	399.26	388.59	383.26	389.67	408.96	390.80	417.98
387.65	397.94	388.61	419.79	389.68	419.46	390.82	403.74
387.66	409.37	388.62	403.89	389.70	390.75	390.83	400.87
387.67	393.31	388.63	402.44	389.72	397.96	390.84	405.51
387.68	427.57	388.67	415.49	389.73	419.95	390.86	396.26
387.70	587.50	388.69	396.86	389.74	438.58	390.87	421.60
387.71	405.00	388.71	417.34	389.75	423.46	390.89	423.17
387.72	410.78	388.72	406.94	389.76	399.37	390.91	387.71
387.73	413.94	388.73	419.22	389.78	372.27	390.92	401.69
387.74	399.96	388.74	419.30	389.82	396.39	390.93	415.58
387.76	432.93	388.76	404.22	389.84	430.22	390.94	417.18
387.77	401.45	388.79	412.93	389.88	408.47	390.95	403.24
387.78	399.07	388.80	396.36	389.90	434.71	390.97	405.84

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
390.98	398.57	392.12	409.39	393.09	407.24	394.20	397.16
390.99	408.13	392.13	380.57	393.10	394.56	394.24	417.90
391.01	405.33	392.14	388.46	393.11	401.17	394.25	408.56
391.03	441.56	392.16	400.79	393.14	412.07	394.27	416.03
391.05	396.30	392.17	429.02	393.15	405.89	394.28	388.65
391.06	406.40	392.18	428.04	393.17	389.55	394.30	420.49
391.09	419.25	392.20	402.73	393.18	417.58	394.31	410.22
391.11	409.74	392.23	424.37	393.19	416.70	394.33	443.06
391.12	393.51	392.24	423.88	393.21	421.45	394.34	419.26
391.13	401.35	392.26	420.79	393.22	396.88	394.35	425.42
391.15	411.34	392.27	413.74	393.24	408.76	394.36	393.52
391.16	415.74	392.28	393.69	393.26	398.93	394.38	443.63
391.18	408.32	392.29	405.78	393.28	406.66	394.44	425.15
391.19	395.10	392.30	409.21	393.33	378.60	394.46	402.41
391.20	402.14	392.33	405.69	393.39	404.04	394.47	415.30
391.21	409.29	392.35	651.37	393.40	409.08	394.48	460.28
391.24	422.08	392.36	418.49	393.45	411.20	394.50	406.14
391.26	446.44	392.37	416.24	393.47	401.42	394.51	582.05
391.28	423.29	392.38	420.98	393.48	415.28	394.52	403.15
391.30	404.65	392.39	428.07	393.49	416.64	394.53	406.38
391.31	420.16	392.40	421.80	393.52	402.50	394.54	397.43
391.33	398.75	392.41	398.95	393.53	396.29	394.57	405.22
391.34	441.88	392.43	417.52	393.54	413.57	394.58	412.87
391.37	581.87	392.44	416.67	393.57	407.90	394.60	415.40
391.39	587.70	392.47	393.24	393.58	588.33	394.61	410.59
391.40	411.58	392.51	411.31	393.60	414.11	394.63	415.12
391.46	437.33	392.53	409.18	393.63	405.07	394.64	401.89
391.47	413.88	392.54	411.67	393.64	412.16	394.66	417.72
391.48	411.45	392.55	407.20	393.65	419.65	394.67	414.77
391.50	395.10	392.57	404.25	393.66	421.56	394.69	411.63
391.55	407.74	392.58	423.26	393.68	411.17	394.70	418.76
391.56	416.70	392.59	401.19	393.69	427.94	394.74	380.35
391.62	390.96	392.61	418.84	393.71	402.96	394.76	414.47
391.64	397.11	392.65	419.46	393.72	394.07	394.78	388.18
391.65	396.77	392.66	409.59	393.76	431.05	394.79	406.35
391.67	406.20	392.67	422.31	393.79	414.39	394.80	406.99
391.70	441.55	392.69	400.23	393.81	396.96	394.83	424.53
391.71	409.19	392.70	397.45	393.83	410.90	394.84	410.65
391.72	398.33	392.75	421.31	393.84	419.96	394.85	402.81
391.73	403.18	392.76	402.46	393.85	421.00	394.86	409.81
391.75	426.90	392.77	438.27	393.86	401.86	394.87	397.24
391.77	399.82	392.78	405.78	393.87	403.17	394.89	406.89
391.79	396.18	392.80	454.41	393.90	407.03	394.91	409.99
391.80	401.57	392.81	588.26	393.91	422.78	394.92	425.34
391.82	428.12	392.82	417.36	393.92	443.06	394.93	388.22
391.84	446.32	392.84	434.67	393.93	487.69	394.94	403.94
391.85	406.22	392.86	415.46	393.94	413.48	394.95	403.90
391.86	419.05	392.87	395.02	393.96	420.35	394.96	397.97
391.87	401.66	392.88	416.61	393.98	445.50	394.97	396.02
391.88	409.24	392.90	404.42	394.00	434.37	394.98	418.96
391.91	403.36	392.91	388.06	394.01	412.43	394.99	421.95
391.93	595.83	392.92	400.95	394.03	410.08	395.00	422.20
391.95	409.05	392.93	395.78	394.04	416.86	395.01	423.69
391.96	387.38	392.94	402.03	394.08	422.70	395.04	395.52
391.99	398.53	392.96	412.67	394.09	444.47	395.05	413.09
392.01	405.73	392.99	408.67	394.10	422.74	395.06	424.99
392.03	405.01	393.00	476.87	394.14	413.12	395.08	416.70
392.06	388.44	393.01	402.03	394.15	406.83	395.09	412.77
392.07	432.64	393.04	414.63	394.16	418.00	395.10	411.04
392.11	415.05	393.08	429.85	394.19	419.51	395.11	402.76



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
395.13	426.17	396.12	407.62	397.10	408.03	398.08	435.71
395.14	452.90	396.13	417.49	397.11	393.77	398.10	408.26
395.15	419.55	396.14	415.58	397.12	406.11	398.12	417.21
395.16	419.68	396.16	382.24	397.15	409.34	398.14	416.61
395.17	407.17	396.17	410.17	397.17	432.05	398.16	423.55
395.19	414.91	396.18	417.47	397.18	406.92	398.17	419.33
395.20	413.15	396.20	400.11	397.20	430.49	398.18	424.82
395.21	393.94	396.21	418.01	397.21	401.07	398.20	418.05
395.22	420.57	396.22	437.76	397.22	422.28	398.25	413.53
395.23	426.41	396.23	424.76	397.23	407.70	398.26	416.04
395.24	416.15	396.24	429.44	397.25	402.37	398.27	395.72
395.25	419.63	396.26	406.93	397.28	417.53	398.30	434.08
395.26	406.38	396.29	421.95	397.30	407.06	398.31	402.14
395.27	407.82	396.30	408.19	397.31	416.23	398.32	415.65
395.28	419.23	396.34	406.35	397.32	397.32	398.34	427.22
395.29	434.65	396.35	406.85	397.33	431.48	398.36	416.07
395.31	412.39	396.36	410.52	397.34	416.90	398.38	400.04
395.32	402.56	396.37	404.85	397.35	401.93	398.39	404.11
395.33	426.70	396.38	425.41	397.37	412.39	398.40	402.72
395.35	416.29	396.41	390.93	397.40	418.41	398.42	409.86
395.38	398.81	396.42	420.05	397.42	411.19	398.45	429.30
395.40	423.53	396.44	435.97	397.44	409.82	398.46	409.12
395.42	421.12	396.45	416.32	397.45	408.85	398.47	418.36
395.43	413.44	396.46	417.07	397.46	427.04	398.48	417.25
395.44	380.68	396.48	373.38	397.48	412.07	398.50	424.34
395.46	589.63	396.50	424.02	397.50	419.34	398.51	407.29
395.47	396.58	396.51	414.07	397.51	425.34	398.52	414.98
395.51	429.40	396.52	424.89	397.52	423.39	398.54	398.27
395.53	412.85	396.55	389.98	397.54	426.43	398.55	428.18
395.55	401.89	396.57	428.09	397.55	452.80	398.56	417.88
395.57	413.34	396.60	414.38	397.58	420.17	398.60	419.98
395.59	399.86	396.61	402.64	397.59	383.36	398.61	458.13
395.62	395.71	396.62	418.58	397.60	406.52	398.63	400.77
395.66	407.14	396.65	411.22	397.63	424.04	398.64	416.40
395.68	445.67	396.66	414.22	397.66	410.90	398.65	405.13
395.70	429.14	396.70	402.61	397.67	405.34	398.66	582.84
395.71	400.72	396.71	411.08	397.68	390.50	398.70	420.29
395.73	415.47	396.72	415.91	397.70	406.12	398.71	394.33
395.74	425.40	396.74	402.61	397.73	402.07	398.72	417.59
395.75	406.59	396.75	422.26	397.78	403.19	398.76	407.34
395.77	384.66	396.76	402.78	397.79	403.99	398.77	414.49
395.79	421.59	396.77	394.64	397.80	424.30	398.78	433.81
395.82	425.01	396.78	413.31	397.82	428.49	398.79	439.09
395.83	438.14	396.80	390.12	397.84	403.71	398.80	423.71
395.84	420.35	396.81	402.22	397.86	402.36	398.81	430.44
395.86	405.38	396.86	421.16	397.87	453.83	398.82	423.79
395.87	419.19	396.90	401.22	397.88	407.14	398.83	404.16
395.88	402.77	396.93	421.94	397.89	428.31	398.84	413.00
395.89	392.74	396.94	390.73	397.90	425.79	398.85	583.22
395.92	424.67	396.95	471.87	397.92	417.32	398.86	410.01
395.93	402.41	396.97	413.02	397.93	410.11	398.87	399.45
395.94	415.26	396.98	417.18	397.94	429.56	398.88	412.83
395.97	416.59	396.99	412.02	397.95	425.24	398.90	409.00
395.99	417.43	397.00	419.99	397.96	434.65	398.92	426.43
396.03	440.69	397.02	414.73	397.97	412.37	398.94	412.13
396.04	402.83	397.04	430.49	397.98	386.40	399.00	396.45
396.05	409.01	397.05	389.83	397.99	427.92	399.01	412.79
396.07	582.63	397.06	417.59	398.03	410.72	399.02	399.70
396.08	424.89	397.08	408.88	398.04	434.29	399.04	415.34
396.09	414.41	397.09	418.24	398.06	412.72	399.05	481.15

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
399.07	401.40	399.96	455.21	400.95	429.31	401.94	447.11
399.10	415.24	399.97	404.69	400.96	388.33	401.95	412.36
399.11	421.32	399.98	416.81	400.97	436.55	401.97	412.32
399.13	426.08	399.99	421.54	400.99	419.61	401.98	432.38
399.15	421.71	400.00	414.47	401.01	421.48	401.99	411.24
399.16	417.24	400.04	450.74	401.02	410.58	402.01	409.23
399.18	406.01	400.05	430.45	401.07	433.34	402.04	419.69
399.19	426.80	400.06	428.21	401.10	406.99	402.06	422.40
399.20	422.51	400.07	434.46	401.11	433.98	402.08	427.95
399.21	410.86	400.09	411.58	401.15	431.52	402.09	426.74
399.23	409.31	400.10	412.33	401.17	414.77	402.10	651.39
399.25	402.18	400.13	416.23	401.19	402.64	402.14	474.18
399.26	442.37	400.16	424.03	401.21	427.88	402.16	410.86
399.27	426.04	400.19	421.52	401.22	404.00	402.17	413.64
399.28	403.95	400.20	418.42	401.23	427.18	402.18	417.71
399.29	427.71	400.21	411.74	401.24	412.09	402.21	421.11
399.30	400.98	400.22	414.51	401.26	417.99	402.24	423.51
399.31	398.32	400.25	404.65	401.27	412.60	402.26	430.11
399.32	430.59	400.27	435.72	401.28	394.32	402.27	455.50
399.33	442.65	400.28	402.88	401.29	425.76	402.30	420.52
399.34	407.04	400.30	400.87	401.30	431.13	402.32	401.75
399.36	407.09	400.31	405.73	401.32	378.31	402.33	419.99
399.38	423.78	400.33	414.38	401.33	393.58	402.34	420.37
399.39	440.04	400.34	411.46	401.34	415.67	402.35	412.55
399.40	423.00	400.35	414.06	401.35	415.04	402.36	425.43
399.41	416.80	400.36	406.70	401.37	406.26	402.39	415.31
399.42	424.53	400.38	392.93	401.38	403.98	402.40	409.66
399.43	430.03	400.39	428.93	401.40	421.24	402.41	418.85
399.44	386.90	400.42	452.83	401.44	410.06	402.42	422.23
399.47	406.47	400.43	421.99	401.45	456.23	402.45	421.14
399.48	414.82	400.46	406.39	401.46	449.97	402.51	414.05
399.51	424.69	400.48	438.82	401.47	410.29	402.54	428.01
399.52	438.11	400.51	423.25	401.51	445.47	402.56	423.77
399.53	396.03	400.53	401.59	401.52	437.12	402.57	420.43
399.54	397.46	400.55	423.62	401.53	417.52	402.58	399.37
399.57	410.40	400.57	409.31	401.54	582.61	402.60	406.12
399.58	436.86	400.58	587.53	401.55	452.63	402.62	405.17
399.59	416.30	400.60	428.11	401.56	416.67	402.63	426.86
399.60	416.62	400.62	423.44	401.57	414.08	402.68	454.08
399.61	403.64	400.63	415.04	401.60	420.13	402.70	416.97
399.63	445.53	400.65	417.42	401.65	414.86	402.71	402.51
399.64	405.91	400.67	448.96	401.66	418.95	402.72	422.01
399.67	403.16	400.71	408.37	401.67	420.02	402.73	426.42
399.68	414.63	400.77	403.19	401.68	424.65	402.76	403.25
399.69	411.23	400.78	426.65	401.69	413.02	402.80	423.67
399.71	414.36	400.79	421.36	401.70	420.51	402.81	403.76
399.73	416.83	400.80	398.02	401.71	428.16	402.82	413.27
399.74	626.03	400.81	409.75	401.74	422.32	402.83	432.20
399.75	419.41	400.83	421.10	401.76	417.72	402.84	449.07
399.76	447.76	400.84	414.45	401.77	420.84	402.85	414.76
399.78	549.96	400.85	587.51	401.78	425.81	402.86	449.83
399.80	398.08	400.86	417.24	401.80	431.25	402.87	421.69
399.81	404.96	400.87	426.63	401.81	414.75	402.94	412.77
399.83	401.93	400.88	415.81	401.82	415.35	402.96	408.92
399.84	414.13	400.89	407.62	401.84	428.04	402.97	422.70
399.89	462.72	400.90	403.76	401.86	536.00	402.98	420.93
399.91	414.70	400.91	405.59	401.87	404.61	402.99	412.17
399.92	427.68	400.92	460.02	401.89	408.64	403.02	417.37
399.93	589.11	400.93	414.75	401.90	399.19	403.03	435.35
399.94	407.87	400.94	405.98	401.91	411.39	403.07	419.56

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
403.08	448.99	404.12	425.63	405.29	426.08	406.14	418.75
403.09	394.36	404.13	430.26	405.30	431.71	406.15	438.88
403.11	420.44	404.15	413.82	405.33	427.87	406.16	404.49
403.13	423.65	404.17	433.32	405.35	430.06	406.17	422.86
403.14	408.31	404.18	425.47	405.36	397.41	406.20	409.99
403.16	405.64	404.19	421.51	405.37	379.73	406.22	423.77
403.17	415.47	404.23	409.48	405.38	424.41	406.24	439.12
403.18	424.51	404.24	402.61	405.39	424.57	406.26	403.49
403.19	415.36	404.25	412.73	405.40	413.27	406.27	403.33
403.21	447.74	404.26	443.80	405.41	412.54	406.31	429.38
403.22	423.89	404.27	434.74	405.42	424.67	406.32	405.51
403.23	417.88	404.29	413.62	405.43	428.73	406.33	415.45
403.25	427.17	404.31	414.83	405.44	428.18	406.34	422.48
403.26	416.74	404.32	450.35	405.45	446.52	406.36	420.18
403.31	420.91	404.36	413.22	405.48	433.27	406.37	424.32
403.32	417.21	404.38	443.48	405.51	420.22	406.39	424.62
403.35	432.01	404.41	446.51	405.54	439.43	406.43	651.52
403.37	398.55	404.43	419.90	405.55	369.10	406.46	424.20
403.39	427.68	404.44	442.42	405.57	404.38	406.47	431.32
403.40	431.96	404.45	426.29	405.58	395.87	406.48	430.66
403.41	412.24	404.46	459.04	405.59	424.59	406.49	417.10
403.43	416.72	404.47	408.98	405.60	414.95	406.50	427.14
403.44	420.01	404.50	413.59	405.61	417.88	406.52	412.73
403.47	420.69	404.51	416.47	405.62	397.41	406.54	461.81
403.50	424.74	404.53	431.49	405.64	421.72	406.56	424.34
403.52	411.62	404.56	432.66	405.65	434.13	406.58	422.45
403.55	421.45	404.58	429.77	405.67	418.68	406.59	408.02
403.57	426.67	404.59	417.06	405.68	420.17	406.60	413.54
403.60	404.95	404.60	429.90	405.69	413.00	406.61	408.53
403.61	415.28	404.61	417.02	405.70	436.65	406.62	417.36
403.64	409.37	404.63	438.78	405.71	458.77	406.63	424.39
403.66	419.86	404.65	432.82	405.72	421.20	406.64	419.88
403.68	422.76	404.66	434.34	405.73	409.83	406.67	401.86
403.69	436.55	404.70	411.96	405.76	434.33	406.69	401.48
403.70	421.74	404.71	422.95	405.77	433.86	406.71	432.54
403.73	407.51	404.72	422.82	405.78	427.99	406.72	415.99
403.79	425.00	404.73	449.99	405.79	402.93	406.74	446.48
403.80	431.19	404.74	416.46	405.80	426.85	406.75	387.83
403.81	409.80	404.77	407.21	405.81	459.87	406.76	439.62
403.82	411.07	404.78	419.85	405.82	418.68	406.77	458.94
403.83	420.57	404.82	432.11	405.85	575.91	406.79	430.93
403.85	458.62	404.83	433.60	405.86	431.60	406.80	423.69
403.86	423.67	404.84	462.32	405.88	439.21	406.81	429.13
403.87	449.50	404.87	412.30	405.89	441.43	406.84	420.54
403.88	453.46	404.89	419.57	405.91	415.29	406.85	424.89
403.89	435.66	404.91	399.26	405.93	418.32	406.86	417.40
403.90	424.40	404.92	439.98	405.94	429.65	406.87	415.91
403.91	449.91	404.95	420.30	405.96	425.12	406.89	423.72
403.92	433.24	404.96	426.75	405.97	416.04	406.90	413.29
403.93	453.33	404.97	422.45	405.99	422.72	406.91	405.69
403.95	380.52	404.99	429.33	406.01	421.17	406.92	436.84
403.96	422.55	405.02	421.07	406.03	462.85	406.93	447.66
403.97	455.61	405.04	409.11	406.04	428.26	406.96	452.42
403.99	425.20	405.05	423.37	406.05	416.67	406.97	436.11
404.01	409.72	405.06	416.71	406.06	589.13	406.98	421.88
404.02	412.43	405.11	409.03	406.07	427.38	406.99	445.82
404.03	417.55	405.18	404.50	406.08	408.82	407.00	416.16
404.06	438.82	405.19	437.55	406.09	425.10	407.02	407.84
404.08	415.24	405.24	433.87	406.10	417.92	407.03	447.31
404.10	415.72	405.28	422.68	406.11	407.86	407.04	433.89

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
407.05	410.80	408.12	404.30	408.98	426.16	409.96	437.87
407.06	405.09	408.14	411.02	408.99	407.60	409.98	418.97
407.10	438.21	408.15	438.52	409.01	427.59	410.00	433.40
407.11	448.68	408.16	415.59	409.04	415.38	410.01	438.40
407.12	445.78	408.17	435.82	409.05	419.82	410.05	419.66
407.14	413.04	408.18	432.30	409.07	424.45	410.07	415.75
407.15	458.22	408.19	429.62	409.08	417.87	410.08	431.91
407.16	413.99	408.24	414.13	409.09	447.50	410.09	582.97
407.18	583.03	408.25	432.49	409.10	426.15	410.10	428.55
407.20	437.15	408.26	589.48	409.11	448.33	410.11	429.40
407.21	419.19	408.27	413.89	409.12	421.27	410.12	419.38
407.23	434.16	408.28	496.84	409.14	426.35	410.15	583.89
407.24	439.09	408.30	433.17	409.15	391.35	410.17	412.88
407.25	420.85	408.31	423.37	409.16	331.42	410.18	431.70
407.27	429.52	408.32	403.56	409.17	433.26	410.20	463.62
407.30	705.51	408.33	425.09	409.19	431.71	410.22	423.73
407.33	426.47	408.35	432.38	409.21	414.05	410.23	421.73
407.34	464.45	408.36	590.26	409.23	422.84	410.24	419.49
407.35	424.14	408.37	421.68	409.24	410.58	410.28	422.15
407.38	588.70	408.38	401.63	409.25	429.26	410.31	458.76
407.41	435.30	408.39	419.62	409.26	429.93	410.34	417.11
407.42	415.32	408.41	415.64	409.27	438.96	410.37	429.27
407.46	424.73	408.42	419.66	409.29	427.86	410.38	436.16
407.47	418.12	408.43	429.44	409.31	427.65	410.40	425.56
407.49	409.53	408.45	414.82	409.33	434.24	410.41	431.89
407.50	440.92	408.46	422.66	409.36	419.33	410.43	416.07
407.52	404.89	408.50	433.76	409.37	589.42	410.44	424.08
407.55	389.30	408.51	438.72	409.39	411.20	410.45	436.72
407.56	404.50	408.52	424.50	409.40	434.17	410.47	456.57
407.59	416.60	408.53	430.46	409.42	432.04	410.48	432.47
407.61	405.37	408.55	415.93	409.43	420.11	410.49	422.84
407.62	463.98	408.57	432.80	409.45	417.15	410.51	426.20
407.63	415.20	408.58	465.29	409.47	417.75	410.55	438.00
407.68	414.99	408.59	434.07	409.49	416.26	410.56	399.79
407.70	441.77	408.62	431.11	409.50	414.36	410.57	428.15
407.71	432.99	408.63	433.30	409.53	431.30	410.58	439.04
407.72	434.02	408.64	427.97	409.57	428.06	410.60	453.51
407.74	469.31	408.65	413.86	409.61	420.82	410.63	433.67
407.76	442.54	408.66	427.91	409.62	407.83	410.64	412.40
407.78	422.49	408.70	423.76	409.63	420.27	410.65	440.69
407.79	419.52	408.71	434.06	409.65	429.13	410.66	429.01
407.80	421.81	408.72	421.73	409.68	418.86	410.70	435.21
407.81	581.74	408.73	407.03	409.70	428.96	410.71	430.52
407.82	438.61	408.74	430.29	409.71	422.29	410.72	406.33
407.84	413.49	408.75	451.32	409.72	426.41	410.74	434.48
407.85	431.08	408.76	415.84	409.73	442.38	410.75	422.19
407.86	423.63	408.77	424.55	409.74	439.28	410.76	430.46
407.87	428.57	408.80	425.31	409.75	414.29	410.77	436.04
407.88	467.13	408.81	432.25	409.77	435.14	410.78	413.01
407.90	408.78	408.82	423.85	409.79	426.93	410.79	404.30
407.91	402.09	408.83	434.31	409.80	436.25	410.80	426.91
407.93	411.73	408.84	425.95	409.81	410.57	410.81	419.41
407.95	420.31	408.85	437.74	409.82	429.73	410.83	425.15
407.98	397.42	408.86	464.74	409.83	458.61	410.84	425.85
407.99	410.60	408.90	425.12	409.84	440.59	410.88	428.83
408.01	435.04	408.91	460.80	409.86	424.78	410.89	437.13
408.03	407.99	408.93	411.98	409.88	419.29	410.96	429.08
408.04	419.61	408.94	425.49	409.90	413.79	410.98	453.18
408.07	422.65	408.96	456.03	409.94	419.99	410.99	409.48
408.10	407.63	408.97	433.29	409.95	413.44	411.01	423.45

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
411.04	431.09	412.03	502.69	412.95	422.57	413.96	432.06
411.06	441.99	412.04	439.36	412.99	399.39	413.98	433.98
411.07	424.79	412.06	591.72	413.01	427.11	413.99	436.72
411.10	427.93	412.07	429.85	413.02	424.95	414.00	432.82
411.11	433.85	412.08	434.39	413.03	431.44	414.01	436.18
411.12	421.01	412.09	427.67	413.04	428.99	414.02	432.67
411.15	418.92	412.10	428.29	413.05	424.09	414.03	437.23
411.18	444.02	412.11	398.77	413.06	422.37	414.05	424.06
411.20	456.26	412.12	430.91	413.07	443.14	414.06	433.12
411.21	421.55	412.13	423.23	413.08	435.65	414.08	427.53
411.22	383.09	412.14	438.64	413.10	431.14	414.09	433.00
411.23	406.22	412.15	428.47	413.11	444.09	414.12	431.00
411.26	496.95	412.16	426.14	413.13	425.30	414.14	424.06
411.27	425.94	412.18	583.47	413.14	439.88	414.15	426.51
411.28	464.66	412.19	407.91	413.15	417.47	414.16	438.64
411.29	421.31	412.20	450.19	413.16	426.27	414.17	427.99
411.32	420.74	412.23	438.23	413.17	438.15	414.19	420.89
411.34	421.94	412.24	444.57	413.18	439.03	414.20	441.40
411.35	430.29	412.26	427.78	413.20	438.83	414.21	440.40
411.36	422.65	412.28	429.50	413.22	651.68	414.22	434.67
411.38	424.10	412.29	455.72	413.23	431.13	414.23	471.14
411.40	425.46	412.30	443.13	413.25	454.74	414.26	450.49
411.41	418.81	412.33	423.44	413.26	423.11	414.27	446.03
411.42	583.62	412.34	440.25	413.27	418.25	414.28	477.69
411.43	417.99	412.35	434.10	413.28	458.48	414.30	584.24
411.45	452.29	412.36	426.74	413.30	420.03	414.31	418.46
411.46	418.12	412.37	406.61	413.31	423.67	414.32	437.10
411.47	445.80	412.38	452.39	413.36	441.40	414.34	437.42
411.49	271.06	412.39	413.77	413.37	416.48	414.36	437.27
411.51	409.47	412.40	473.90	413.38	437.32	414.37	433.82
411.53	408.10	412.41	431.40	413.39	431.59	414.39	435.10
411.55	467.42	412.42	424.64	413.42	437.50	414.40	416.78
411.56	428.98	412.43	412.17	413.45	424.62	414.45	426.12
411.57	436.02	412.44	426.92	413.46	465.62	414.47	439.32
411.58	430.47	412.45	428.76	413.47	651.45	414.48	428.60
411.59	419.56	412.46	432.06	413.48	415.04	414.49	418.76
411.61	421.76	412.49	431.26	413.49	414.01	414.50	431.29
411.62	421.60	412.50	420.36	413.51	436.73	414.53	469.25
411.65	414.57	412.52	462.38	413.52	421.89	414.54	434.09
411.66	430.87	412.54	407.56	413.54	442.50	414.55	444.74
411.67	417.24	412.56	419.13	413.55	430.84	414.56	432.73
411.68	424.35	412.60	438.88	413.56	414.24	414.58	430.43
411.69	422.71	412.62	419.90	413.57	429.64	414.59	419.86
411.70	434.81	412.65	430.11	413.61	416.59	414.62	431.25
411.71	426.84	412.66	428.35	413.63	526.34	414.63	422.13
411.72	506.45	412.68	459.44	413.64	459.51	414.64	457.39
411.73	432.70	412.69	427.23	413.65	445.86	414.65	429.52
411.74	407.54	412.72	409.37	413.66	406.74	414.66	430.48
411.76	411.64	412.75	421.49	413.68	651.67	414.69	425.39
411.77	391.56	412.76	425.35	413.69	440.17	414.70	435.62
411.82	441.55	412.77	432.97	413.71	433.61	414.73	442.94
411.83	417.53	412.78	456.75	413.73	467.61	414.76	459.84
411.84	421.85	412.80	583.44	413.74	431.60	414.77	423.13
411.87	467.24	412.82	590.28	413.77	457.03	414.79	434.00
411.89	417.76	412.83	426.16	413.79	417.59	414.81	428.43
411.91	430.16	412.85	464.21	413.80	427.29	414.82	444.51
411.92	428.82	412.87	454.39	413.84	425.86	414.83	431.32
411.93	430.48	412.91	461.68	413.85	432.11	414.86	401.38
411.94	422.93	412.93	434.05	413.91	447.58	414.88	426.20
411.97	438.55	412.94	430.59	413.94	427.55	414.89	505.33

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
414.90	434.97	415.89	442.78	416.77	416.64	417.71	431.11
414.91	428.71	415.90	421.05	416.78	415.71	417.73	451.16
414.92	441.06	415.91	428.02	416.81	440.62	417.75	428.29
414.96	443.10	415.94	439.18	416.82	397.18	417.76	436.82
414.97	472.29	415.96	436.34	416.83	467.57	417.77	423.35
414.98	428.83	415.97	437.37	416.86	439.56	417.78	430.97
415.00	451.22	415.98	403.09	416.87	368.53	417.79	438.67
415.01	429.99	415.99	429.67	416.88	427.20	417.80	440.04
415.03	464.29	416.03	431.08	416.89	433.97	417.81	437.50
415.04	408.96	416.06	422.58	416.90	422.48	417.82	421.58
415.06	429.29	416.07	438.17	416.91	439.32	417.83	417.52
415.07	428.28	416.08	452.41	416.92	418.24	417.85	416.16
415.10	441.35	416.09	435.82	416.94	441.10	417.86	426.97
415.11	456.88	416.11	420.80	416.96	429.07	417.89	445.27
415.14	431.69	416.12	432.02	416.97	431.54	417.90	422.07
415.16	428.49	416.13	435.32	416.98	455.83	417.91	413.73
415.17	443.62	416.15	421.45	416.99	423.41	417.92	445.21
415.20	440.12	416.16	427.24	417.00	446.94	417.93	459.03
415.21	425.58	416.17	440.66	417.01	424.69	417.94	400.02
415.22	426.71	416.19	424.34	417.04	466.10	417.95	454.97
415.23	429.09	416.20	434.59	417.05	610.25	417.97	410.86
415.24	444.79	416.24	455.53	417.09	431.63	417.99	439.67
415.29	432.83	416.25	457.13	417.10	445.46	418.00	426.92
415.32	443.40	416.26	459.57	417.11	459.21	418.01	512.32
415.33	428.18	416.27	425.07	417.13	461.41	418.02	420.61
415.34	433.90	416.31	437.31	417.15	432.43	418.04	441.47
415.35	414.23	416.32	420.56	417.16	469.03	418.06	449.85
415.36	424.91	416.33	484.84	417.17	423.30	418.08	428.98
415.37	434.76	416.35	445.58	417.18	441.59	418.09	426.95
415.39	438.71	416.36	442.57	417.20	410.29	418.10	450.18
415.40	444.92	416.37	444.68	417.21	446.06	418.13	590.84
415.41	420.87	416.38	486.86	417.22	445.46	418.14	442.40
415.43	436.76	416.39	424.45	417.24	461.64	418.15	433.91
415.44	421.52	416.40	439.77	417.25	444.09	418.18	421.35
415.45	441.29	416.41	415.44	417.26	461.63	418.19	417.01
415.46	428.70	416.43	432.15	417.30	435.32	418.21	460.29
415.47	412.30	416.44	426.86	417.33	432.05	418.22	430.66
415.49	419.12	416.45	480.73	417.34	423.60	418.23	420.87
415.50	441.08	416.48	455.59	417.36	438.77	418.25	449.23
415.51	590.49	416.49	432.39	417.37	438.37	418.27	428.32
415.55	433.57	416.50	435.82	417.38	436.98	418.28	443.57
415.57	438.31	416.51	407.64	417.40	437.51	418.32	421.34
415.59	433.28	416.52	425.19	417.41	433.75	418.35	589.11
415.61	436.85	416.53	417.26	417.44	439.46	418.38	437.16
415.62	434.64	416.55	428.59	417.45	437.42	418.40	434.91
415.64	424.49	416.56	431.56	417.46	427.33	418.41	430.51
415.65	435.15	416.57	421.64	417.47	443.01	418.42	430.92
415.68	458.34	416.59	424.08	417.48	440.61	418.45	464.71
415.71	426.76	416.60	431.13	417.50	414.36	418.46	435.18
415.72	448.85	416.61	407.48	417.51	431.85	418.47	417.82
415.73	420.26	416.62	429.27	417.52	479.20	418.50	416.79
415.76	432.93	416.64	425.69	417.53	423.38	418.51	430.14
415.77	428.57	416.67	448.00	417.54	428.82	418.53	445.40
415.78	438.00	416.68	450.63	417.55	469.10	418.54	342.75
415.79	429.44	416.69	433.71	417.57	438.35	418.56	448.86
415.80	430.81	416.71	426.91	417.58	422.37	418.58	455.42
415.83	423.84	416.72	429.28	417.62	430.66	418.59	449.28
415.84	426.85	416.73	424.85	417.66	442.57	418.60	437.20
415.85	448.03	416.74	409.34	417.69	428.44	418.62	436.88
415.88	423.36	416.75	437.24	417.70	420.37	418.64	443.44

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
418.65	432.22	419.71	467.82	420.73	443.47	421.67	437.31
418.67	442.62	419.72	436.01	420.74	409.38	421.70	432.28
418.70	432.48	419.73	423.57	420.75	501.23	421.72	429.03
418.71	435.63	419.75	439.21	420.78	430.13	421.74	424.39
418.72	421.87	419.76	427.74	420.79	413.07	421.75	426.53
418.76	426.27	419.77	424.55	420.80	446.95	421.76	423.62
418.77	433.81	419.78	443.53	420.81	435.24	421.77	434.86
418.79	423.84	419.79	516.27	420.85	438.84	421.79	428.65
418.80	429.87	419.81	416.52	420.86	423.75	421.80	426.30
418.81	459.86	419.82	431.37	420.87	456.25	421.81	460.15
418.82	436.25	419.83	426.79	420.91	438.02	421.83	427.19
418.83	427.61	419.84	435.89	420.92	431.65	421.84	434.25
418.84	434.77	419.85	432.81	420.93	438.17	421.88	442.06
418.85	424.36	419.86	434.13	420.94	436.17	421.89	408.34
418.88	427.51	419.87	441.93	420.98	439.74	421.90	452.26
418.89	439.36	419.91	445.70	421.00	427.15	421.91	402.18
418.93	432.81	419.93	448.35	421.02	439.43	421.92	422.40
418.94	437.96	419.96	440.94	421.03	431.11	421.97	442.64
418.95	446.55	419.97	448.25	421.04	431.07	421.99	446.03
418.96	427.43	419.99	448.08	421.05	429.34	422.00	458.60
418.97	423.68	420.01	432.65	421.07	435.13	422.05	435.56
418.99	418.17	420.02	459.18	421.08	393.87	422.06	450.57
419.00	443.58	420.05	424.66	421.11	444.61	422.07	435.83
419.01	442.42	420.07	424.58	421.12	435.75	422.09	426.39
419.02	417.60	420.12	450.24	421.13	447.26	422.10	448.75
419.06	417.91	420.14	427.32	421.15	439.98	422.11	448.68
419.10	433.00	420.15	422.24	421.18	441.97	422.12	433.07
419.13	441.90	420.16	429.75	421.23	445.56	422.13	428.40
419.14	426.20	420.17	426.05	421.25	441.76	422.16	424.24
419.16	438.18	420.18	447.86	421.26	435.74	422.18	442.48
419.19	432.83	420.21	414.91	421.27	422.86	422.20	450.17
419.21	437.49	420.22	447.08	421.28	445.68	422.21	434.88
419.23	440.54	420.24	433.40	421.29	449.72	422.22	465.58
419.25	416.95	420.25	442.71	421.32	447.77	422.23	439.97
419.26	591.49	420.28	463.78	421.33	451.11	422.26	427.76
419.28	421.00	420.30	440.53	421.35	463.21	422.27	439.92
419.30	448.31	420.32	589.53	421.38	434.62	422.28	422.61
419.32	462.58	420.37	425.51	421.39	427.97	422.30	423.95
419.33	456.68	420.40	429.96	421.40	446.41	422.32	417.79
419.34	461.06	420.41	431.77	421.43	441.56	422.33	443.54
419.35	442.61	420.43	443.23	421.44	590.03	422.34	437.48
419.37	442.47	420.48	473.81	421.46	431.86	422.35	415.88
419.39	432.37	420.50	428.72	421.47	432.50	422.36	435.84
419.40	426.01	420.51	429.30	421.49	472.61	422.37	443.34
419.41	434.91	420.53	464.77	421.50	437.12	422.39	456.66
419.43	424.69	420.54	449.21	421.51	438.20	422.41	438.16
419.44	435.46	420.55	435.25	421.52	444.93	422.43	436.87
419.45	431.40	420.56	448.08	421.54	460.17	422.44	449.02
419.46	428.77	420.58	431.88	421.55	434.05	422.45	447.77
419.47	434.95	420.59	469.60	421.56	436.88	422.47	435.29
419.48	443.22	420.60	474.35	421.57	446.01	422.50	433.01
419.51	475.91	420.61	438.55	421.58	445.12	422.51	442.76
419.54	408.44	420.62	429.75	421.59	456.10	422.53	432.34
419.57	446.09	420.64	429.14	421.60	425.40	422.54	443.48
419.59	408.60	420.65	411.34	421.61	457.35	422.57	442.23
419.62	437.34	420.66	455.08	421.62	405.19	422.58	440.63
419.63	434.12	420.67	589.18	421.63	428.05	422.61	429.32
419.66	425.64	420.68	422.77	421.64	460.66	422.62	429.85
419.68	470.72	420.71	443.78	421.65	453.17	422.65	443.10
419.70	436.10	420.72	445.92	421.66	432.54	422.66	442.05

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
422.68	438.96	423.58	432.78	424.58	472.53	425.64	463.25
422.71	447.93	423.60	430.14	424.59	441.82	425.65	423.76
422.75	413.56	423.67	441.93	424.61	444.60	425.67	507.49
422.76	464.23	423.69	455.12	424.63	705.51	425.69	456.13
422.78	452.05	423.70	440.53	424.64	452.64	425.71	298.55
422.79	432.46	423.72	411.90	424.65	421.11	425.74	430.71
422.80	432.15	423.73	444.34	424.67	585.15	425.75	472.71
422.81	583.16	423.74	439.10	424.68	426.58	425.76	439.71
422.82	455.29	423.75	452.24	424.71	467.69	425.77	439.68
422.84	425.86	423.76	420.80	424.72	431.15	425.79	436.63
422.85	426.41	423.78	472.91	424.73	431.07	425.80	441.91
422.86	458.56	423.79	443.39	424.76	437.74	425.81	439.20
422.89	426.93	423.80	446.75	424.77	442.89	425.82	446.10
422.92	438.25	423.81	436.65	424.79	416.86	425.84	624.91
422.93	444.67	423.82	439.38	424.82	652.13	425.85	438.33
422.96	436.46	423.84	450.21	424.84	462.04	425.87	457.26
422.97	451.13	423.86	437.83	424.85	435.84	425.88	444.55
422.98	460.13	423.88	467.59	424.87	426.84	425.89	434.14
422.99	430.42	423.89	448.22	424.89	476.02	425.91	468.33
423.00	450.28	423.90	441.40	424.90	504.13	425.92	431.29
423.01	433.31	423.91	443.01	424.91	441.93	425.93	446.56
423.02	438.68	423.93	427.15	424.93	652.10	425.95	443.70
423.04	438.73	423.94	438.65	424.94	469.58	425.96	449.21
423.05	434.79	423.95	439.26	424.95	451.20	425.97	455.20
423.07	473.67	423.96	432.82	424.97	408.54	425.98	438.91
423.08	427.01	423.97	450.73	424.98	441.87	426.03	445.31
423.10	421.09	423.98	449.87	424.99	480.71	426.05	439.60
423.11	444.36	423.99	434.92	425.00	481.24	426.06	434.80
423.13	430.33	424.03	431.94	425.01	437.65	426.07	434.83
423.14	474.64	424.04	444.99	425.03	440.46	426.08	462.66
423.16	433.87	424.05	448.12	425.04	422.37	426.10	431.44
423.17	588.97	424.08	435.97	425.07	431.87	426.12	437.92
423.18	421.05	424.09	388.53	425.08	436.63	426.13	590.95
423.20	440.54	424.10	559.35	425.10	449.30	426.15	442.46
423.21	442.73	424.11	441.95	425.11	472.48	426.17	596.23
423.22	444.71	424.12	433.10	425.13	443.01	426.19	468.06
423.23	416.86	424.16	444.67	425.15	422.35	426.20	413.66
423.25	437.16	424.17	444.37	425.16	430.19	426.21	443.81
423.26	469.91	424.20	435.25	425.18	435.89	426.23	449.01
423.29	450.90	424.25	436.08	425.19	445.48	426.24	432.59
423.30	438.53	424.26	428.38	425.20	420.61	426.25	498.04
423.31	463.01	424.29	435.81	425.21	432.82	426.27	462.97
423.32	440.43	424.30	438.46	425.22	444.45	426.29	428.50
423.33	442.58	424.31	652.45	425.23	453.11	426.31	449.94
423.34	398.34	424.32	433.75	425.24	451.40	426.33	463.07
423.35	427.94	424.33	452.13	425.25	432.67	426.34	452.40
423.36	440.47	424.35	437.49	425.27	462.42	426.35	513.22
423.39	432.83	424.36	590.60	425.28	583.89	426.36	431.56
423.40	437.88	424.37	465.53	425.30	436.69	426.37	439.57
423.41	413.57	424.39	433.25	425.31	432.98	426.39	455.25
423.44	432.24	424.42	440.29	425.33	430.93	426.41	450.02
423.45	426.62	424.43	429.82	425.37	447.66	426.42	450.60
423.46	465.55	424.46	419.20	425.39	417.72	426.44	513.20
423.47	449.92	424.47	436.74	425.40	455.27	426.46	444.96
423.48	473.11	424.49	436.66	425.43	452.54	426.47	438.24
423.49	438.71	424.51	450.28	425.46	438.72	426.50	435.15
423.51	427.74	424.52	430.13	425.48	445.82	426.51	437.93
423.52	418.64	424.54	440.99	425.49	476.85	426.52	428.30
423.53	410.84	424.55	434.51	425.60	436.42	426.55	423.85
423.55	452.34	424.57	590.03	425.63	441.40	426.56	425.41



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
426.57	449.81	427.56	434.57	428.36	431.41	429.34	590.24
426.58	426.91	427.57	422.78	428.39	474.83	429.35	443.42
426.59	431.30	427.59	446.73	428.40	447.91	429.36	483.24
426.60	441.92	427.60	451.32	428.41	444.86	429.38	439.25
426.61	491.67	427.62	437.61	428.43	450.50	429.40	431.00
426.62	441.73	427.63	443.05	428.46	477.38	429.41	472.75
426.63	432.39	427.65	454.58	428.47	438.97	429.42	430.85
426.64	408.31	427.66	436.96	428.48	427.84	429.43	447.54
426.66	426.07	427.67	446.44	428.52	456.80	429.44	442.05
426.68	462.61	427.68	450.51	428.54	439.58	429.45	591.30
426.69	418.39	427.69	439.44	428.56	441.47	429.46	509.43
426.70	443.74	427.70	445.04	428.57	448.49	429.48	444.55
426.73	434.22	427.73	433.13	428.59	435.51	429.49	462.96
426.75	379.55	427.74	469.25	428.61	444.93	429.50	472.37
426.79	419.23	427.75	443.52	428.62	438.04	429.51	452.00
426.80	446.86	427.76	449.36	428.63	444.61	429.53	455.20
426.83	435.37	427.77	435.74	428.64	478.79	429.54	432.55
426.84	439.54	427.78	446.43	428.65	652.40	429.57	444.97
426.85	433.04	427.79	438.54	428.67	471.12	429.58	449.20
426.86	456.57	427.80	432.42	428.69	584.76	429.59	433.48
426.89	440.56	427.81	455.56	428.70	439.05	429.63	436.24
426.90	443.41	427.82	463.46	428.72	456.80	429.64	446.50
426.92	290.66	427.84	440.66	428.74	423.14	429.66	433.20
426.93	458.62	427.86	435.07	428.77	451.24	429.69	457.63
426.94	447.05	427.87	430.32	428.80	451.51	429.72	455.00
426.95	426.11	427.88	472.94	428.82	444.87	429.73	453.74
426.96	443.47	427.89	438.11	428.83	425.39	429.76	449.27
426.97	433.55	427.92	442.80	428.85	446.64	429.77	434.21
426.98	445.48	427.93	440.18	428.87	451.29	429.80	447.96
426.99	443.08	427.95	425.22	428.88	584.86	429.81	456.54
427.02	453.94	427.96	432.83	428.89	454.29	429.82	460.06
427.07	472.29	427.97	441.71	428.90	441.96	429.84	445.17
427.09	430.66	427.98	433.51	428.91	430.35	429.85	455.85
427.14	425.51	427.99	441.52	428.92	436.54	429.91	423.53
427.15	431.52	428.00	458.35	428.95	476.10	429.93	432.20
427.16	431.22	428.01	465.81	428.96	465.21	429.94	457.14
427.17	423.92	428.02	452.51	428.97	452.72	429.96	442.70
427.18	467.32	428.03	467.68	428.98	428.84	430.01	450.65
427.19	475.56	428.07	448.12	429.00	431.71	430.03	434.01
427.20	431.50	428.08	474.95	429.01	449.10	430.04	424.11
427.24	414.59	428.09	438.47	429.02	445.88	430.05	452.67
427.25	434.02	428.10	438.37	429.05	430.44	430.07	453.04
427.26	438.97	428.12	449.64	429.07	451.28	430.09	433.44
427.27	437.92	428.14	442.25	429.08	453.86	430.13	420.11
427.28	476.06	428.15	470.41	429.09	450.12	430.14	425.04
427.29	429.37	428.16	469.98	429.11	428.40	430.18	443.01
427.30	433.20	428.17	463.73	429.13	585.08	430.20	436.76
427.31	452.79	428.18	431.34	429.14	415.80	430.21	445.79
427.32	427.84	428.20	439.54	429.15	452.63	430.26	449.10
427.33	426.62	428.21	422.72	429.16	437.84	430.28	442.54
427.35	438.56	428.22	468.75	429.17	450.31	430.29	433.33
427.38	582.78	428.23	449.74	429.18	476.81	430.30	443.62
427.42	435.49	428.24	444.77	429.19	458.86	430.33	452.16
427.45	427.86	428.25	449.55	429.20	477.64	430.34	452.89
427.46	442.62	428.26	444.77	429.21	419.87	430.36	434.14
427.47	454.19	428.27	426.34	429.22	446.01	430.38	421.98
427.49	456.22	428.29	442.76	429.24	453.77	430.39	460.67
427.50	456.97	428.33	522.15	429.25	460.65	430.40	431.10
427.52	457.52	428.34	440.44	429.29	456.74	430.43	447.59
427.54	442.13	428.35	433.32	429.33	423.23	430.44	448.62

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
430.45	465.97	431.37	461.79	432.24	457.52	433.14	478.86
430.46	440.10	431.40	484.03	432.27	442.35	433.15	459.70
430.47	454.90	431.41	431.72	432.28	440.64	433.17	442.37
430.50	438.05	431.44	591.65	432.30	438.07	433.20	452.14
430.52	470.74	431.45	429.75	432.32	439.96	433.23	614.91
430.53	441.27	431.47	452.35	432.34	452.16	433.24	441.47
430.55	447.40	431.48	434.81	432.35	443.83	433.25	472.58
430.56	451.69	431.49	438.35	432.36	456.85	433.26	442.66
430.60	442.45	431.50	451.76	432.37	430.62	433.27	440.47
430.62	448.00	431.51	592.50	432.38	438.20	433.29	463.47
430.63	442.97	431.52	439.93	432.40	413.02	433.30	437.05
430.65	439.45	431.53	438.27	432.41	445.16	433.31	447.86
430.68	458.03	431.54	584.14	432.42	450.25	433.32	434.58
430.72	425.90	431.56	652.17	432.43	440.88	433.35	466.32
430.73	442.35	431.57	407.47	432.45	433.26	433.36	430.88
430.75	421.89	431.59	437.28	432.46	451.89	433.37	593.16
430.77	449.38	431.60	429.02	432.47	438.47	433.38	484.52
430.78	437.87	431.62	446.64	432.48	446.97	433.39	445.66
430.79	439.38	431.63	438.28	432.49	434.71	433.40	457.25
430.80	449.39	431.64	465.36	432.50	466.98	433.42	439.52
430.82	458.03	431.66	447.99	432.52	436.89	433.43	441.16
430.83	442.86	431.67	400.22	432.53	450.83	433.45	467.41
430.84	446.34	431.68	459.09	432.54	463.00	433.48	437.31
430.85	591.01	431.69	447.86	432.55	450.46	433.49	452.96
430.87	445.86	431.70	447.90	432.57	437.93	433.50	464.95
430.88	450.01	431.71	435.95	432.58	448.05	433.51	438.00
430.89	458.86	431.74	431.65	432.60	483.91	433.52	449.65
430.90	437.57	431.75	453.27	432.64	434.51	433.53	452.86
430.91	452.34	431.77	440.96	432.65	454.79	433.54	452.68
430.92	433.30	431.79	407.38	432.67	435.52	433.55	431.70
430.94	447.31	431.83	430.13	432.68	447.55	433.57	444.35
430.96	445.49	431.85	479.13	432.69	458.28	433.59	445.32
430.97	585.01	431.86	456.98	432.70	456.26	433.60	472.84
430.99	448.09	431.87	454.48	432.71	459.39	433.61	458.29
431.00	448.44	431.89	457.49	432.72	467.00	433.63	437.55
431.01	450.80	431.91	439.29	432.76	432.12	433.64	449.68
431.02	445.37	431.92	449.62	432.78	453.31	433.66	456.98
431.05	455.03	431.94	447.53	432.81	456.26	433.68	459.65
431.06	447.41	431.95	449.55	432.82	657.68	433.69	446.08
431.07	592.08	431.96	477.47	432.83	412.36	433.70	455.92
431.08	438.40	431.97	454.19	432.84	457.66	433.73	443.25
431.12	440.42	431.98	504.18	432.85	479.02	433.76	474.21
431.14	420.47	431.99	447.90	432.87	452.60	433.77	453.75
431.15	451.54	432.00	432.66	432.89	458.39	433.79	427.70
431.16	456.03	432.02	436.75	432.90	447.52	433.81	478.62
431.17	437.92	432.04	458.29	432.92	441.51	433.82	451.07
431.18	450.25	432.07	459.27	432.93	446.93	433.83	448.14
431.21	456.77	432.09	443.86	432.94	466.86	433.84	446.17
431.22	445.29	432.10	448.65	432.95	482.03	433.85	455.77
431.23	444.00	432.11	442.97	432.96	438.09	433.86	483.42
431.24	454.34	432.12	434.19	432.97	392.14	433.90	479.58
431.26	446.10	432.13	461.31	432.98	456.21	433.91	466.47
431.27	454.00	432.14	450.20	432.99	456.64	433.93	453.87
431.28	441.65	432.15	475.21	433.00	442.95	433.94	418.41
431.30	523.84	432.16	652.17	433.04	450.01	433.95	425.42
431.32	450.61	432.17	448.99	433.07	434.39	433.99	444.43
431.33	441.14	432.19	467.23	433.08	462.91	434.00	454.81
431.34	437.86	432.21	469.60	433.09	430.20	434.01	584.60
431.35	436.38	432.22	440.20	433.10	466.16	434.04	459.09
431.36	466.61	432.23	470.03	433.13	445.38	434.06	446.08

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
434.08	446.19	434.94	450.62	435.92	457.72	436.88	485.02
434.09	468.12	434.96	435.42	435.93	468.91	436.89	436.44
434.10	435.70	434.97	436.09	435.94	425.31	436.90	468.66
434.13	462.29	434.98	448.19	435.95	492.40	436.92	452.25
434.14	421.19	434.99	447.03	435.96	444.36	436.93	446.77
434.15	469.83	435.04	445.61	435.98	516.71	436.95	437.16
434.18	418.10	435.09	450.55	435.99	459.01	436.96	490.77
434.19	461.40	435.10	464.85	436.01	437.71	436.97	457.49
434.20	460.52	435.13	458.93	436.03	444.88	436.98	591.45
434.21	460.84	435.14	438.37	436.04	468.64	437.01	447.16
434.23	441.23	435.15	456.09	436.08	441.26	437.02	448.81
434.24	458.29	435.16	448.24	436.09	486.29	437.04	456.84
434.25	440.63	435.17	591.44	436.10	421.87	437.05	452.01
434.26	450.81	435.18	464.54	436.12	456.44	437.06	462.91
434.27	453.49	435.22	453.75	436.13	449.66	437.07	449.37
434.28	434.50	435.23	428.86	436.15	458.82	437.08	447.06
434.29	445.02	435.24	455.26	436.16	443.34	437.11	462.43
434.30	443.09	435.27	479.85	436.17	458.30	437.12	463.56
434.31	445.86	435.28	435.55	436.18	446.10	437.13	458.27
434.35	455.98	435.29	452.67	436.21	464.26	437.14	449.24
434.37	441.92	435.30	449.49	436.23	460.11	437.16	487.07
434.38	435.43	435.31	448.39	436.24	441.13	437.17	455.95
434.39	590.94	435.33	448.20	436.26	465.48	437.18	442.76
434.40	454.66	435.37	426.69	436.27	452.93	437.20	427.03
434.41	454.98	435.38	469.65	436.28	464.25	437.21	438.11
434.45	477.38	435.39	456.95	436.30	457.55	437.22	441.48
434.46	448.85	435.40	460.59	436.31	459.80	437.23	440.52
434.47	453.47	435.41	445.28	436.34	449.00	437.24	452.51
434.48	450.03	435.42	450.36	436.37	446.84	437.25	462.50
434.50	444.99	435.43	442.54	436.38	459.60	437.26	450.18
434.51	419.16	435.45	453.73	436.39	382.55	437.27	417.15
434.52	443.81	435.46	559.67	436.42	572.20	437.28	446.98
434.53	442.72	435.47	456.53	436.43	478.06	437.29	427.32
434.54	439.88	435.49	482.44	436.46	445.41	437.30	456.44
434.56	462.99	435.50	477.38	436.48	447.32	437.31	461.43
434.57	439.48	435.53	416.15	436.49	449.55	437.32	421.39
434.59	456.91	435.54	450.06	436.50	444.37	437.33	459.95
434.60	445.89	435.56	440.31	436.51	460.09	437.34	446.15
434.61	443.46	435.57	440.41	436.52	427.74	437.37	451.56
434.62	452.52	435.58	432.72	436.53	450.47	437.38	442.24
434.63	585.02	435.63	452.33	436.54	432.35	437.40	442.21
434.66	477.42	435.64	454.29	436.55	476.44	437.41	483.76
434.68	456.08	435.65	444.22	436.56	448.09	437.42	446.65
434.70	455.96	435.66	443.57	436.58	461.69	437.44	452.23
434.72	458.54	435.67	456.39	436.59	449.57	437.45	453.89
434.73	610.55	435.68	446.86	436.60	361.49	437.46	452.08
434.74	445.49	435.70	486.32	436.65	456.91	437.47	445.25
434.75	446.33	435.71	432.66	436.66	434.26	437.48	465.06
434.76	490.04	435.72	459.17	436.67	445.78	437.49	450.71
434.78	446.13	435.79	458.42	436.68	591.99	437.53	440.04
434.79	452.82	435.80	448.96	436.69	434.57	437.54	450.07
434.81	429.83	435.81	449.06	436.70	456.78	437.55	423.41
434.83	590.89	435.82	461.16	436.71	444.09	437.56	440.75
434.84	438.03	435.83	439.95	436.72	456.12	437.57	442.85
434.85	449.40	435.84	462.93	436.73	456.19	437.58	474.09
434.86	417.06	435.85	460.96	436.74	473.94	437.59	447.65
434.87	459.11	435.86	446.33	436.77	492.50	437.61	447.61
434.90	447.24	435.87	446.06	436.78	439.14	437.63	448.08
434.91	413.94	435.88	446.41	436.82	456.21	437.64	446.73
434.92	528.02	435.89	462.75	436.87	456.79	437.68	462.22

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
437.69	457.46	438.56	441.38	439.52	442.96	440.38	449.09
437.70	457.11	438.60	450.91	439.53	470.96	440.39	445.79
437.72	442.25	438.61	446.33	439.54	446.06	440.40	442.13
437.73	472.56	438.63	452.69	439.56	450.20	440.41	452.74
437.74	442.85	438.67	420.55	439.57	467.97	440.42	626.50
437.75	481.46	438.69	459.08	439.58	451.60	440.43	457.27
437.78	471.70	438.73	458.51	439.61	462.08	440.44	453.66
437.80	436.25	438.74	443.37	439.63	447.16	440.45	460.45
437.81	451.05	438.76	465.01	439.64	590.62	440.48	441.48
437.82	437.65	438.78	438.18	439.67	449.46	440.49	483.03
437.83	457.14	438.79	460.22	439.70	456.46	440.51	450.41
437.84	455.94	438.80	449.08	439.71	446.48	440.53	447.40
437.89	457.75	438.82	438.43	439.74	479.99	440.54	443.44
437.90	440.72	438.83	446.49	439.75	436.66	440.56	449.80
437.92	432.74	438.84	453.88	439.76	461.05	440.57	459.07
437.94	382.11	438.86	451.49	439.77	449.81	440.58	453.88
437.95	440.23	438.87	450.06	439.78	433.03	440.60	454.77
437.96	439.36	438.90	452.39	439.79	463.43	440.61	447.94
437.97	481.93	438.91	451.94	439.80	444.42	440.62	447.80
437.98	453.49	438.92	437.60	439.81	450.84	440.64	464.97
438.00	432.02	438.95	462.65	439.83	436.55	440.65	467.31
438.02	444.77	438.97	460.51	439.84	458.35	440.66	457.17
438.04	546.37	438.99	440.84	439.85	438.77	440.67	450.84
438.05	525.95	439.00	464.23	439.87	469.30	440.68	446.63
438.06	452.83	439.01	466.50	439.88	472.28	440.69	456.06
438.07	452.69	439.04	457.06	439.89	467.37	440.70	438.42
438.09	447.99	439.07	445.46	439.95	476.43	440.71	452.09
438.10	460.16	439.08	461.93	439.96	471.02	440.73	459.00
438.11	399.27	439.09	452.79	439.97	450.84	440.75	448.74
438.12	445.47	439.10	460.82	439.98	448.83	440.76	455.08
438.13	470.70	439.11	484.39	439.99	464.66	440.78	460.64
438.15	462.86	439.12	446.02	440.01	455.19	440.79	482.89
438.16	460.44	439.13	457.59	440.03	445.05	440.80	446.76
438.18	444.81	439.14	465.67	440.04	455.55	440.81	455.83
438.19	444.21	439.15	361.72	440.05	454.93	440.84	481.77
438.20	483.62	439.19	444.23	440.07	447.10	440.85	449.30
438.22	448.13	439.22	585.61	440.08	473.79	440.87	464.45
438.23	478.70	439.23	443.26	440.10	450.30	440.88	482.31
438.24	524.50	439.24	471.27	440.11	460.51	440.89	455.26
438.25	445.22	439.25	448.14	440.13	455.57	440.90	455.90
438.28	455.80	439.26	416.53	440.14	448.31	440.92	585.30
438.29	447.24	439.27	456.11	440.15	455.05	440.94	488.04
438.30	437.63	439.29	458.45	440.16	438.80	440.97	431.19
438.31	455.22	439.31	446.02	440.18	458.15	440.99	440.41
438.32	652.34	439.32	485.80	440.19	484.41	441.00	463.29
438.34	463.05	439.33	478.00	440.21	455.02	441.01	447.00
438.36	490.55	439.34	447.85	440.22	482.18	441.02	458.34
438.38	458.54	439.37	448.21	440.23	456.79	441.03	460.25
438.39	462.48	439.39	457.04	440.25	434.53	441.04	460.57
438.41	457.86	439.40	443.76	440.26	447.61	441.05	454.05
438.42	445.54	439.41	450.13	440.27	480.16	441.06	592.68
438.43	457.68	439.42	462.00	440.28	483.59	441.07	453.48
438.44	470.33	439.43	453.30	440.29	460.95	441.08	447.38
438.46	448.70	439.44	448.55	440.30	450.12	441.09	465.03
438.48	457.62	439.45	592.90	440.31	442.26	441.10	463.86
438.49	456.40	439.46	443.17	440.32	423.12	441.12	438.93
438.52	454.65	439.47	458.79	440.33	449.48	441.14	463.15
438.53	455.84	439.48	584.39	440.35	476.03	441.15	443.66
438.54	449.87	439.49	450.79	440.36	585.80	441.16	439.51
438.55	430.38	439.51	449.35	440.37	448.23	441.17	440.20

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
441.20	584.39	442.12	472.54	442.91	458.13	443.81	443.51
441.22	462.74	442.13	455.08	442.92	444.64	443.82	471.26
441.25	439.57	442.14	466.00	442.93	467.62	443.83	473.36
441.28	442.90	442.15	592.45	442.94	453.24	443.84	455.34
441.29	436.31	442.17	441.74	442.96	451.24	443.85	483.75
441.30	464.04	442.18	455.61	442.99	464.78	443.86	447.31
441.32	455.61	442.19	466.79	443.00	446.72	443.87	451.71
441.33	465.12	442.20	450.84	443.01	439.28	443.88	463.50
441.36	450.40	442.21	447.22	443.02	423.03	443.89	493.96
441.37	440.37	442.23	451.38	443.07	452.80	443.90	458.56
441.38	452.52	442.24	456.75	443.09	591.87	443.92	443.86
441.39	442.54	442.25	455.02	443.10	470.05	443.93	458.91
441.40	451.34	442.26	456.40	443.11	449.85	443.94	452.62
441.41	465.54	442.28	459.26	443.12	466.17	443.95	463.79
441.43	450.26	442.29	590.80	443.13	429.73	443.97	433.87
441.44	434.66	442.30	476.92	443.14	471.29	443.98	441.12
441.47	465.95	442.31	445.70	443.17	448.21	443.99	439.60
441.49	447.98	442.32	459.48	443.18	462.27	444.00	457.46
441.51	488.81	442.33	594.24	443.19	460.13	444.01	468.70
441.52	462.62	442.34	458.69	443.23	585.00	444.02	442.30
441.53	459.52	442.36	453.54	443.26	471.72	444.03	484.48
441.54	455.36	442.37	626.69	443.28	449.13	444.04	443.53
441.55	451.61	442.38	462.63	443.29	449.20	444.05	466.34
441.56	451.24	442.41	474.98	443.33	463.76	444.06	450.20
441.57	440.96	442.42	450.80	443.36	452.19	444.07	465.32
441.58	449.74	442.43	492.32	443.37	455.22	444.08	446.87
441.59	458.71	442.44	441.74	443.39	447.46	444.10	453.21
441.62	447.59	442.45	591.32	443.40	450.00	444.13	477.14
441.63	451.18	442.46	445.83	443.41	458.62	444.14	454.62
441.64	447.06	442.48	467.82	443.42	452.70	444.15	447.45
441.65	456.71	442.49	453.55	443.44	445.11	444.16	439.39
441.66	454.42	442.51	435.75	443.45	454.21	444.18	485.77
441.67	462.14	442.52	448.44	443.46	450.18	444.20	449.13
441.68	452.24	442.53	468.01	443.47	464.16	444.22	461.87
441.72	466.42	442.54	591.11	443.49	486.76	444.23	445.80
441.74	450.53	442.56	464.83	443.51	481.02	444.24	473.60
441.80	459.03	442.57	462.90	443.53	419.53	444.25	454.33
441.82	465.22	442.59	442.09	443.54	449.77	444.26	438.20
441.84	463.02	442.61	467.86	443.55	455.38	444.28	481.11
441.85	457.71	442.62	457.92	443.56	451.09	444.32	447.46
441.86	594.61	442.63	465.71	443.57	450.29	444.33	441.93
441.88	480.87	442.66	443.43	443.59	437.61	444.38	466.86
441.90	465.48	442.67	458.25	443.60	435.40	444.40	483.82
441.92	488.27	442.68	457.57	443.62	437.01	444.41	439.48
441.94	529.74	442.69	468.37	443.64	467.03	444.42	428.48
441.95	446.00	442.70	493.23	443.65	442.64	444.43	463.76
441.96	485.41	442.72	455.35	443.66	460.64	444.45	448.73
441.97	445.37	442.73	465.56	443.67	470.79	444.46	467.88
441.99	461.41	442.74	458.02	443.68	436.80	444.47	451.30
442.00	460.55	442.75	458.10	443.69	459.05	444.48	454.84
442.01	454.89	442.77	461.37	443.70	451.02	444.49	469.72
442.02	439.25	442.78	432.67	443.71	435.81	444.50	469.64
442.03	462.48	442.79	478.74	443.72	463.58	444.51	456.61
442.04	454.23	442.80	462.89	443.73	463.36	444.52	484.77
442.05	450.35	442.83	440.99	443.74	462.73	444.53	594.52
442.06	448.57	442.84	451.49	443.76	489.58	444.58	473.63
442.07	459.65	442.85	442.50	443.77	453.48	444.60	473.04
442.08	442.56	442.86	482.70	443.78	486.74	444.61	462.11
442.09	592.06	442.87	456.80	443.79	451.89	444.62	457.55
442.11	460.04	442.89	465.31	443.80	469.36	444.63	456.61

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
444.66	461.08	445.54	467.94	446.44	466.84	447.42	488.84
444.67	468.68	445.55	449.56	446.45	484.20	447.43	456.08
444.71	457.97	445.56	529.35	446.46	465.14	447.44	464.61
444.72	451.84	445.57	457.79	446.48	442.62	447.45	474.02
444.73	450.34	445.58	459.52	446.49	471.27	447.47	450.54
444.74	447.67	445.62	464.26	446.50	453.42	447.49	468.39
444.75	463.49	445.63	471.38	446.53	470.42	447.51	531.96
444.77	465.57	445.65	469.64	446.56	432.98	447.52	437.33
444.78	456.31	445.66	474.82	446.58	467.69	447.53	516.70
444.79	416.18	445.68	457.56	446.59	496.71	447.55	447.37
444.80	452.20	445.70	452.34	446.60	489.09	447.56	485.48
444.83	492.88	445.71	462.71	446.62	457.62	447.59	468.77
444.84	440.71	445.72	460.38	446.63	468.60	447.60	456.59
444.85	476.66	445.73	457.32	446.64	485.75	447.61	454.48
444.86	594.16	445.74	460.14	446.65	455.72	447.62	468.02
444.87	486.09	445.76	419.36	446.66	511.23	447.63	478.86
444.89	425.23	445.77	594.32	446.67	450.79	447.65	461.94
444.90	452.93	445.79	479.60	446.68	449.99	447.66	440.78
444.91	448.83	445.80	457.53	446.69	454.01	447.70	585.56
444.92	465.88	445.81	458.76	446.73	564.07	447.72	443.07
444.93	456.01	445.83	454.74	446.74	596.13	447.73	456.18
444.95	445.36	445.84	473.66	446.75	458.22	447.74	460.10
444.98	444.66	445.85	454.78	446.78	465.89	447.75	469.64
444.99	458.33	445.86	474.32	446.79	457.20	447.76	463.27
445.02	452.22	445.90	463.05	446.80	452.29	447.77	476.36
445.03	465.67	445.91	457.81	446.81	475.81	447.82	446.69
445.04	439.13	445.92	451.45	446.83	490.66	447.83	456.60
445.05	473.81	445.93	540.07	446.84	467.67	447.84	447.20
445.07	455.98	445.94	494.64	446.85	455.79	447.86	465.75
445.10	466.94	445.96	425.14	446.87	461.92	447.87	467.12
445.11	325.15	445.97	453.29	446.90	434.39	447.89	453.10
445.13	455.90	445.99	461.93	446.92	466.42	447.90	459.92
445.14	459.22	446.00	456.71	446.94	468.90	447.91	462.96
445.15	474.98	446.01	452.92	446.96	452.40	447.93	458.54
445.16	449.35	446.03	486.94	446.97	453.16	447.95	453.45
445.17	470.18	446.04	455.94	446.98	468.78	447.96	489.90
445.18	456.56	446.07	471.64	446.99	484.24	447.97	468.86
445.20	463.78	446.10	448.98	447.01	453.80	447.98	450.55
445.22	465.18	446.12	461.73	447.03	449.46	447.99	652.39
445.23	440.46	446.14	456.00	447.05	451.41	448.00	461.05
445.24	456.84	446.15	455.29	447.07	467.01	448.01	417.28
445.25	461.08	446.16	457.03	447.09	464.68	448.02	463.07
445.26	397.83	446.17	460.53	447.10	430.33	448.03	480.65
445.29	470.40	446.18	453.93	447.12	469.53	448.04	482.71
445.30	446.14	446.20	467.54	447.13	472.78	448.05	468.98
445.33	455.71	446.23	466.09	447.15	490.17	448.06	449.37
445.35	469.48	446.24	450.68	447.17	492.51	448.08	465.31
445.36	465.26	446.26	462.01	447.18	482.10	448.09	463.83
445.37	451.20	446.27	453.79	447.19	462.04	448.10	467.95
445.39	458.13	446.28	469.93	447.21	453.46	448.12	461.52
445.43	459.48	446.29	471.21	447.22	461.35	448.14	482.34
445.44	453.59	446.30	471.40	447.23	465.07	448.15	458.42
445.45	450.75	446.31	454.98	447.32	462.63	448.16	453.64
445.47	584.64	446.32	471.01	447.33	454.81	448.17	468.86
445.48	459.14	446.34	457.70	447.34	460.38	448.18	594.35
445.49	475.42	446.36	463.56	447.35	469.90	448.19	455.52
445.50	449.80	446.38	495.02	447.36	450.29	448.20	452.36
445.51	448.76	446.39	592.61	447.38	467.95	448.21	447.70
445.52	466.97	446.40	652.38	447.39	454.74	448.22	473.09
445.53	452.43	446.41	454.18	447.41	460.55	448.23	456.47

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
448.24	452.77	449.08	585.70	449.96	462.31	451.01	495.17
448.27	464.93	449.09	461.18	449.97	453.61	451.02	492.77
448.29	467.95	449.11	472.75	449.98	491.31	451.03	465.38
448.33	449.64	449.12	507.80	449.99	463.67	451.04	496.85
448.34	458.97	449.13	452.11	450.02	461.25	451.05	469.88
448.37	474.27	449.15	458.43	450.03	476.42	451.06	457.05
448.38	454.29	449.17	473.08	450.05	622.79	451.08	486.40
448.40	460.48	449.18	453.87	450.09	459.92	451.09	472.86
448.41	463.29	449.20	476.98	450.12	470.59	451.10	486.21
448.42	450.37	449.22	449.59	450.14	470.06	451.11	593.32
448.43	594.24	449.23	476.91	450.15	468.36	451.12	453.07
448.45	470.76	449.24	455.60	450.16	465.82	451.14	448.80
448.47	480.43	449.25	466.71	450.17	455.26	451.15	477.28
448.48	457.81	449.27	456.70	450.18	473.20	451.16	444.40
448.49	469.24	449.30	477.25	450.20	469.81	451.17	454.71
448.50	431.47	449.31	457.20	450.21	448.47	451.19	458.99
448.51	444.99	449.32	495.39	450.23	462.62	451.20	464.21
448.52	454.95	449.33	459.79	450.24	459.60	451.21	449.67
448.54	472.05	449.34	592.85	450.28	451.30	451.23	464.89
448.55	454.72	449.35	466.18	450.30	453.98	451.24	468.27
448.56	481.79	449.37	439.17	450.31	455.84	451.25	458.70
448.57	446.26	449.38	455.18	450.32	440.22	451.27	496.70
448.58	458.26	449.39	485.47	450.33	461.27	451.28	455.93
448.59	453.24	449.40	484.03	450.34	413.94	451.29	460.23
448.60	470.21	449.41	444.29	450.35	454.07	451.30	455.97
448.61	444.71	449.42	466.25	450.36	468.32	451.31	464.23
448.64	459.76	449.45	465.73	450.39	463.04	451.32	491.53
448.66	490.40	449.47	446.40	450.42	470.24	451.34	462.99
448.68	464.76	449.48	468.57	450.44	465.73	451.35	462.47
448.69	591.48	449.49	480.42	450.48	454.71	451.37	500.75
448.72	525.16	449.50	521.12	450.50	585.10	451.39	463.17
448.73	463.20	449.51	462.49	450.51	470.56	451.40	451.81
448.74	458.14	449.54	486.49	450.54	495.76	451.41	456.74
448.75	455.60	449.55	457.46	450.55	459.15	451.42	469.00
448.76	466.96	449.56	423.50	450.58	463.74	451.43	459.35
448.77	463.76	449.57	432.15	450.59	468.94	451.44	469.99
448.78	443.14	449.58	468.60	450.61	469.44	451.45	464.72
448.79	482.65	449.60	448.20	450.62	463.34	451.46	444.93
448.80	472.79	449.61	447.06	450.63	436.98	451.48	469.61
448.81	459.77	449.62	480.79	450.64	461.29	451.50	468.77
448.83	472.55	449.63	470.48	450.67	451.56	451.51	441.71
448.84	463.11	449.64	469.75	450.69	501.00	451.52	465.13
448.87	453.68	449.65	450.07	450.70	466.24	451.53	461.36
448.88	453.09	449.66	467.20	450.71	442.35	451.54	456.18
448.89	468.69	449.67	484.10	450.72	444.36	451.55	462.10
448.90	472.01	449.68	446.00	450.73	460.15	451.57	462.69
448.91	462.79	449.69	466.32	450.75	464.87	451.58	468.20
448.93	458.07	449.71	456.88	450.76	464.78	451.61	460.52
448.94	454.32	449.72	475.12	450.77	473.06	451.62	462.79
448.97	457.74	449.74	465.97	450.80	456.34	451.63	501.55
448.98	472.04	449.75	479.98	450.83	474.04	451.64	458.76
448.99	449.28	449.77	463.96	450.86	471.39	451.65	592.25
449.00	453.20	449.80	465.56	450.89	461.55	451.66	479.65
449.01	471.39	449.81	652.58	450.91	477.97	451.68	455.70
449.02	469.74	449.83	467.74	450.92	482.31	451.69	467.67
449.03	457.45	449.85	440.08	450.94	450.87	451.70	466.25
449.04	473.97	449.87	435.73	450.96	469.42	451.71	505.58
449.05	459.42	449.90	459.68	450.97	457.24	451.73	479.22
449.06	476.04	449.93	455.54	450.98	460.00	451.78	465.53
449.07	497.97	449.95	456.24	451.00	464.57	451.80	441.73

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
451.81	456.51	452.70	447.92	453.51	461.96	454.35	455.98
451.82	464.56	452.71	449.24	453.52	470.59	454.36	464.88
451.83	454.02	452.72	463.56	453.53	593.32	454.37	448.28
451.84	497.24	452.73	461.55	453.54	468.98	454.39	457.25
451.85	469.47	452.76	458.72	453.55	463.48	454.40	460.97
451.86	476.37	452.77	455.98	453.56	474.34	454.41	458.36
451.87	472.45	452.79	652.53	453.57	486.18	454.42	476.37
451.88	443.66	452.81	464.65	453.58	475.29	454.43	468.19
451.90	455.20	452.82	475.02	453.59	461.77	454.45	464.63
451.91	442.63	452.84	460.21	453.60	459.55	454.46	476.16
451.92	468.48	452.85	471.56	453.61	474.30	454.47	471.03
451.93	473.54	452.87	458.88	453.64	471.15	454.49	456.32
451.95	460.66	452.88	467.26	453.66	478.60	454.51	463.28
451.97	452.64	452.89	457.84	453.67	476.10	454.53	464.97
451.98	458.14	452.90	467.91	453.68	591.83	454.55	462.15
452.00	473.78	452.92	462.97	453.69	485.87	454.56	476.15
452.02	458.88	452.95	462.19	453.70	536.51	454.57	468.32
452.07	459.61	452.96	467.93	453.71	469.21	454.59	451.86
452.08	476.89	452.97	473.94	453.72	479.39	454.60	469.52
452.09	458.46	452.98	463.54	453.73	458.78	454.64	461.41
452.13	456.74	452.99	457.92	453.74	446.74	454.67	455.31
452.14	466.73	453.01	626.67	453.75	475.89	454.68	474.29
452.15	457.21	453.02	478.56	453.77	652.09	454.71	484.82
452.16	498.95	453.03	474.30	453.78	488.29	454.72	449.92
452.17	496.17	453.04	474.86	453.79	480.76	454.74	457.92
452.18	482.08	453.05	464.49	453.83	470.51	454.75	466.64
452.21	448.46	453.06	478.39	453.84	530.16	454.76	468.66
452.22	470.69	453.07	464.11	453.87	470.76	454.77	456.10
452.23	454.61	453.08	455.05	453.88	473.76	454.80	461.84
452.24	470.19	453.11	472.44	453.90	460.02	454.81	462.52
452.26	468.29	453.12	479.08	453.91	478.41	454.82	489.33
452.27	491.99	453.14	452.92	453.93	465.35	454.84	474.78
452.28	484.99	453.15	585.69	453.94	480.20	454.85	467.21
452.29	454.83	453.16	460.83	453.96	463.74	454.86	459.82
452.30	460.84	453.17	456.20	453.97	467.98	454.87	487.47
452.32	471.63	453.18	469.83	453.98	534.47	454.88	459.86
452.33	465.27	453.20	475.94	453.99	499.85	454.90	476.00
452.37	495.15	453.23	585.45	454.00	464.96	454.91	466.07
452.38	652.33	453.24	455.33	454.01	465.74	454.92	454.35
452.39	593.41	453.25	461.24	454.03	457.05	454.93	463.48
452.40	577.82	453.26	468.62	454.05	473.93	454.94	459.89
452.41	473.75	453.27	457.17	454.06	492.60	454.95	469.87
452.42	468.98	453.28	470.53	454.08	471.36	454.96	457.57
452.43	466.42	453.29	466.55	454.09	465.95	454.97	506.67
452.44	500.19	453.30	451.08	454.11	585.30	454.98	475.47
452.46	446.09	453.31	492.39	454.12	459.26	455.00	456.39
452.48	446.18	453.32	448.57	454.16	468.16	455.01	455.31
452.49	471.88	453.33	466.53	454.17	434.83	455.02	483.90
452.50	453.62	453.35	467.14	454.20	457.45	455.03	410.03
452.52	473.43	453.36	475.24	454.21	466.11	455.05	465.57
452.54	461.03	453.37	449.61	454.23	458.55	455.07	463.03
452.56	536.11	453.38	466.27	454.24	464.11	455.09	502.62
452.59	458.93	453.39	464.41	454.25	474.16	455.13	488.33
452.60	460.98	453.41	463.83	454.27	462.33	455.15	477.30
452.61	464.08	453.42	496.80	454.28	475.22	455.18	476.75
452.62	474.53	453.43	626.62	454.29	448.34	455.19	449.64
452.64	452.67	453.44	464.73	454.30	502.07	455.23	466.35
452.65	473.95	453.45	537.90	454.32	468.30	455.25	438.15
452.67	486.41	453.47	473.68	454.33	461.40	455.26	461.80
452.69	471.57	453.50	453.50	454.34	484.57	455.27	474.37



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
455.28	471.26	456.14	469.13	456.97	476.82	457.82	462.96
455.29	528.45	456.15	463.83	456.98	486.27	457.84	469.44
455.30	468.49	456.16	473.36	456.99	473.13	457.85	473.13
455.31	445.23	456.17	501.31	457.01	466.00	457.87	491.90
455.32	470.51	456.18	466.50	457.02	586.04	457.88	559.90
455.33	503.98	456.20	432.21	457.03	494.17	457.89	471.08
455.36	484.52	456.22	469.67	457.04	467.12	457.91	461.36
455.37	466.54	456.23	468.09	457.05	480.35	457.93	445.88
455.40	461.79	456.24	499.51	457.07	462.50	457.94	505.49
455.45	472.05	456.28	472.40	457.08	468.41	457.95	473.72
455.46	442.72	456.29	460.93	457.09	477.12	457.97	462.39
455.47	457.75	456.30	474.07	457.10	468.65	457.98	463.40
455.49	468.20	456.31	493.66	457.11	472.02	457.99	469.81
455.50	489.13	456.32	508.29	457.12	464.23	458.02	497.45
455.52	475.55	456.33	467.65	457.13	457.02	458.04	472.38
455.53	463.43	456.34	476.02	457.14	473.87	458.07	475.74
455.55	466.49	456.35	480.46	457.17	477.71	458.08	468.86
455.56	458.51	456.36	472.98	457.18	477.12	458.09	594.04
455.57	476.38	456.37	467.51	457.19	585.41	458.10	477.01
455.59	466.15	456.40	451.65	457.20	476.08	458.11	470.95
455.60	483.38	456.41	455.25	457.21	456.00	458.13	464.50
455.61	595.79	456.42	462.98	457.22	481.12	458.14	473.51
455.62	478.39	456.44	475.56	457.24	467.20	458.16	455.10
455.63	479.54	456.45	502.04	457.27	499.80	458.17	460.38
455.64	461.67	456.46	493.76	457.28	592.06	458.19	462.36
455.65	479.49	456.47	477.32	457.29	468.18	458.20	471.30
455.66	508.53	456.48	472.60	457.31	553.03	458.21	480.13
455.68	464.69	456.49	477.94	457.32	476.09	458.26	465.11
455.70	474.71	456.50	459.45	457.34	472.08	458.27	496.70
455.71	472.45	456.51	431.21	457.35	484.52	458.29	479.17
455.72	464.25	456.53	475.89	457.36	470.79	458.30	487.18
455.73	465.12	456.55	504.56	457.37	477.02	458.31	487.91
455.75	468.53	456.56	458.49	457.38	490.88	458.32	429.74
455.76	480.68	456.57	463.85	457.39	464.28	458.33	491.57
455.80	448.98	456.59	482.48	457.40	464.19	458.34	473.81
455.81	465.25	456.60	477.37	457.42	464.07	458.36	458.55
455.82	484.51	456.61	463.64	457.44	453.14	458.37	465.90
455.83	467.51	456.62	472.05	457.45	451.63	458.38	463.09
455.84	520.61	456.63	497.57	457.46	461.76	458.41	476.84
455.85	478.30	456.65	501.16	457.47	470.12	458.42	463.77
455.86	470.77	456.66	480.03	457.48	469.26	458.44	476.99
455.87	468.48	456.67	457.76	457.49	460.25	458.45	468.54
455.90	462.79	456.69	479.95	457.50	495.17	458.47	467.32
455.91	489.89	456.74	476.30	457.51	470.86	458.48	478.21
455.93	479.16	456.75	462.19	457.54	492.66	458.50	459.96
455.95	465.26	456.76	478.08	457.56	461.75	458.51	498.11
455.96	472.95	456.77	457.01	457.57	480.75	458.52	469.00
455.98	468.56	456.78	461.64	457.58	465.56	458.53	463.49
455.99	520.56	456.80	637.46	457.59	461.63	458.54	459.88
456.00	475.63	456.81	504.86	457.60	474.65	458.55	612.13
456.01	481.75	456.82	455.17	457.61	464.28	458.59	484.53
456.02	462.26	456.83	596.91	457.63	469.27	458.60	483.14
456.03	483.14	456.84	457.25	457.66	463.52	458.61	472.32
456.04	501.92	456.86	466.64	457.68	462.78	458.63	457.83
456.05	467.18	456.87	462.84	457.69	463.69	458.67	459.10
456.06	464.39	456.88	461.66	457.74	458.01	458.68	478.07
456.08	455.95	456.89	489.23	457.76	504.89	458.69	466.05
456.10	480.66	456.91	478.38	457.77	451.53	458.70	486.11
456.11	477.11	456.94	477.24	457.78	496.11	458.72	459.03
456.12	472.49	456.96	519.27	457.79	476.24	458.73	480.94

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
458.74	474.45	459.79	457.01	460.65	466.23	461.56	474.35
458.76	478.56	459.81	474.10	460.66	457.47	461.57	484.79
458.79	459.47	459.83	469.00	460.68	467.22	461.58	469.23
458.80	473.46	459.84	500.03	460.69	594.11	461.62	472.57
458.81	468.74	459.85	486.91	460.73	584.99	461.63	472.65
458.82	477.17	459.87	481.17	460.75	496.94	461.67	475.44
458.84	471.69	459.90	464.49	460.76	459.94	461.68	473.11
458.86	473.60	459.92	483.27	460.77	499.19	461.69	445.43
458.87	473.38	459.93	472.00	460.79	512.03	461.70	505.14
458.88	440.62	459.95	467.71	460.80	475.81	461.71	470.20
458.89	472.37	459.96	653.28	460.81	463.84	461.72	486.33
458.90	461.22	459.97	471.47	460.82	445.70	461.73	460.61
458.92	445.53	459.98	476.48	460.83	481.56	461.74	484.07
458.94	476.47	459.99	481.47	460.84	480.10	461.75	448.43
458.95	473.01	460.02	465.35	460.85	468.70	461.77	473.46
458.96	476.37	460.03	543.40	460.86	460.91	461.78	465.39
458.97	461.23	460.04	456.78	460.87	464.09	461.79	465.31
458.98	473.45	460.05	455.68	460.88	478.03	461.80	482.97
458.99	477.05	460.06	467.89	460.89	428.67	461.81	585.46
459.02	463.31	460.07	456.79	460.90	491.30	461.82	490.12
459.06	461.67	460.09	488.24	460.92	502.29	461.83	595.48
459.08	431.73	460.10	593.35	460.94	512.13	461.84	480.09
459.10	456.50	460.11	475.91	460.97	487.11	461.85	500.99
459.11	480.80	460.12	461.80	460.98	477.88	461.86	453.10
459.12	501.72	460.13	467.30	461.00	473.09	461.88	500.03
459.13	467.91	460.14	467.57	461.02	486.53	461.89	476.92
459.15	424.62	460.15	471.57	461.03	498.54	461.91	485.73
459.17	469.49	460.16	478.62	461.05	473.04	461.92	451.23
459.20	408.56	460.17	474.03	461.06	459.18	461.93	472.89
459.21	465.30	460.19	471.51	461.08	483.39	461.94	471.18
459.22	499.68	460.20	501.18	461.09	496.67	461.96	479.03
459.23	469.07	460.24	468.05	461.10	471.11	461.97	470.82
459.26	474.18	460.25	586.81	461.11	483.83	461.98	506.97
459.28	505.05	460.27	476.83	461.12	485.78	462.01	456.68
459.29	464.78	460.28	482.75	461.16	461.78	462.04	462.00
459.31	428.50	460.30	473.24	461.17	463.03	462.05	467.65
459.33	470.51	460.31	458.35	461.18	479.62	462.06	467.17
459.38	475.98	460.32	447.54	461.19	480.91	462.09	457.67
459.39	463.41	460.33	479.20	461.20	484.27	462.10	447.97
459.40	464.19	460.34	500.90	461.22	531.70	462.11	482.00
459.41	480.16	460.35	457.96	461.23	470.13	462.12	485.53
459.44	466.59	460.36	477.14	461.24	474.77	462.13	480.93
459.45	626.46	460.37	473.56	461.26	463.29	462.17	477.24
459.47	494.39	460.39	457.01	461.27	497.69	462.18	483.70
459.49	479.04	460.40	459.54	461.28	451.66	462.20	502.86
459.51	465.99	460.42	463.29	461.30	464.31	462.21	493.03
459.52	525.31	460.43	486.79	461.31	459.53	462.22	471.66
459.53	507.81	460.45	477.89	461.32	475.75	462.23	477.62
459.54	473.93	460.47	461.24	461.33	484.92	462.26	480.08
459.55	467.11	460.48	478.48	461.34	462.50	462.30	492.93
459.56	458.40	460.49	503.02	461.35	473.08	462.31	455.90
459.58	586.53	460.50	466.34	461.36	454.71	462.32	470.38
459.62	462.53	460.52	502.87	461.39	485.70	462.33	468.20
459.64	491.70	460.53	468.13	461.43	501.72	462.35	479.03
459.65	475.67	460.56	469.04	461.45	508.44	462.38	503.36
459.69	455.26	460.57	476.16	461.46	463.63	462.42	455.72
459.70	454.22	460.59	456.15	461.48	458.72	462.43	477.25
459.74	436.71	460.62	498.64	461.50	459.07	462.44	586.44
459.75	463.97	460.63	460.93	461.51	483.09	462.45	479.06
459.77	475.14	460.64	498.08	461.53	595.52	462.47	442.03

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
462.49	471.07	463.29	491.78	464.18	480.43	465.08	462.90
462.51	473.71	463.30	593.86	464.20	483.23	465.10	467.75
462.52	470.24	463.31	456.89	464.21	479.31	465.13	481.81
462.53	479.34	463.32	478.18	464.22	497.53	465.15	494.63
462.56	474.41	463.33	469.98	464.23	587.07	465.16	472.53
462.59	482.40	463.34	464.66	464.26	492.82	465.17	471.85
462.60	471.17	463.35	472.92	464.27	479.41	465.19	472.41
462.61	507.12	463.37	470.17	464.28	522.09	465.20	490.06
462.63	484.04	463.39	481.96	464.32	467.14	465.21	479.33
462.64	466.81	463.40	456.13	464.33	479.81	465.23	585.15
462.65	469.89	463.41	470.17	464.35	595.71	465.26	476.54
462.66	468.86	463.42	484.11	464.36	482.70	465.28	596.67
462.67	457.90	463.45	477.41	464.37	479.28	465.33	538.50
462.68	483.74	463.46	493.38	464.38	488.24	465.34	475.00
462.69	448.81	463.47	475.42	464.40	472.03	465.35	456.37
462.70	461.27	463.48	485.53	464.42	484.21	465.38	459.83
462.72	452.43	463.49	469.13	464.43	447.84	465.41	505.69
462.74	480.51	463.50	483.98	464.45	464.89	465.42	467.23
462.75	462.13	463.51	472.04	464.46	473.48	465.43	484.62
462.76	459.05	463.52	473.97	464.47	478.69	465.44	476.35
462.77	484.64	463.53	478.54	464.48	592.97	465.45	472.80
462.78	479.75	463.55	596.98	464.49	480.06	465.46	596.73
462.79	472.76	463.56	478.64	464.51	469.89	465.47	477.52
462.80	476.25	463.57	470.61	464.54	490.76	465.48	480.93
462.81	439.64	463.60	467.54	464.55	494.39	465.49	482.39
462.82	463.56	463.61	491.43	464.58	468.07	465.50	476.76
462.83	474.44	463.62	479.35	464.59	472.73	465.51	596.11
462.84	484.65	463.64	482.62	464.60	469.75	465.52	501.92
462.85	466.98	463.66	476.01	464.62	479.70	465.53	482.11
462.86	468.34	463.67	479.23	464.63	457.87	465.54	627.32
462.87	500.31	463.68	464.58	464.64	476.33	465.55	481.98
462.88	469.91	463.69	466.96	464.65	476.77	465.56	469.17
462.89	473.01	463.72	471.69	464.68	472.11	465.58	470.33
462.92	476.62	463.73	593.31	464.69	467.41	465.61	478.37
462.94	467.49	463.74	457.08	464.70	594.57	465.62	652.89
462.96	471.06	463.75	484.14	464.72	474.28	465.65	484.89
463.00	470.50	463.76	506.96	464.74	475.84	465.67	482.54
463.01	505.54	463.77	473.92	464.76	481.97	465.68	486.26
463.02	472.52	463.78	479.47	464.77	457.75	465.69	469.28
463.04	490.00	463.79	479.67	464.78	462.57	465.70	478.52
463.05	475.51	463.80	477.81	464.79	440.03	465.71	466.62
463.06	466.41	463.81	455.47	464.80	503.54	465.73	505.64
463.07	467.82	463.85	498.55	464.82	595.75	465.74	471.56
463.08	452.12	463.86	485.50	464.85	503.63	465.75	514.62
463.09	479.01	463.87	486.00	464.86	494.18	465.76	475.89
463.10	467.54	463.88	484.51	464.88	489.12	465.77	476.00
463.11	447.22	463.89	465.28	464.89	475.72	465.78	476.66
463.12	370.02	463.90	470.07	464.90	461.43	465.79	466.90
463.13	467.33	463.91	477.64	464.92	470.79	465.80	521.88
463.14	465.63	463.93	463.84	464.93	474.39	465.81	485.05
463.18	468.27	463.94	489.01	464.94	480.08	465.83	470.95
463.19	466.10	463.99	509.31	464.96	467.37	465.84	472.15
463.20	456.75	464.00	471.00	464.97	439.98	465.85	479.33
463.21	471.74	464.05	482.86	464.98	475.79	465.86	470.09
463.22	502.42	464.06	476.00	465.00	482.47	465.87	581.23
463.23	468.00	464.07	488.17	465.02	452.36	465.88	481.49
463.24	464.11	464.08	356.22	465.03	466.91	465.89	499.13
463.25	466.21	464.09	469.61	465.05	461.39	465.93	475.99
463.26	507.63	464.11	470.53	465.06	489.15	465.96	481.01
463.28	479.62	464.14	464.05	465.07	473.42	465.97	512.57

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
465.99	465.48	466.78	478.84	467.55	469.40	468.41	477.59
466.00	478.31	466.79	467.76	467.56	474.20	468.42	473.79
466.01	469.21	466.80	499.33	467.57	468.28	468.45	480.82
466.02	479.28	466.81	468.47	467.58	476.76	468.46	471.72
466.05	478.68	466.82	502.08	467.60	487.23	468.49	518.60
466.06	467.40	466.83	478.12	467.61	491.85	468.50	509.59
466.08	462.19	466.84	492.57	467.62	481.66	468.52	468.85
466.10	488.32	466.86	486.82	467.67	479.47	468.53	483.41
466.11	472.46	466.87	482.87	467.68	549.98	468.55	461.76
466.12	478.56	466.88	465.24	467.70	472.65	468.57	467.21
466.13	439.65	466.89	505.37	467.71	461.02	468.58	468.00
466.14	473.92	466.90	478.48	467.73	457.22	468.59	500.81
466.15	474.33	466.92	469.45	467.74	482.61	468.60	482.82
466.17	472.42	466.93	467.14	467.75	504.42	468.61	484.16
466.18	468.65	466.94	505.49	467.77	484.46	468.62	488.84
466.19	485.65	466.95	482.51	467.78	471.54	468.63	494.30
466.22	437.20	466.96	470.35	467.79	477.21	468.64	477.41
466.23	477.30	466.98	479.54	467.81	487.46	468.65	478.41
466.24	500.43	466.99	501.21	467.84	478.56	468.66	467.53
466.26	480.10	467.00	484.28	467.86	586.19	468.67	514.51
466.27	472.48	467.03	501.32	467.87	477.59	468.68	475.00
466.28	463.22	467.04	507.63	467.88	498.53	468.69	486.67
466.29	440.86	467.05	444.41	467.89	468.88	468.70	473.34
466.30	473.05	467.06	474.93	467.90	470.59	468.71	484.76
466.31	462.85	467.07	477.19	467.91	483.07	468.72	462.63
466.32	440.94	467.08	514.53	467.93	469.11	468.74	471.73
466.33	485.31	467.09	459.50	467.94	489.95	468.75	465.55
466.34	495.73	467.10	491.20	467.95	462.64	468.77	486.22
466.35	479.98	467.11	500.29	467.96	499.01	468.79	478.14
466.37	448.87	467.13	476.96	467.97	515.53	468.80	587.11
466.38	488.92	467.14	471.13	468.02	470.26	468.81	462.56
466.40	484.50	467.15	509.94	468.03	494.84	468.83	488.23
466.41	470.87	467.16	474.99	468.05	479.47	468.85	462.69
466.42	469.76	467.17	483.61	468.06	473.61	468.86	478.40
466.44	484.85	467.18	495.06	468.08	483.09	468.87	487.52
466.45	476.70	467.19	461.29	468.09	488.80	468.89	515.89
466.46	477.73	467.21	469.78	468.10	487.73	468.90	481.07
466.47	470.68	467.22	481.63	468.11	478.77	468.91	482.02
466.49	479.69	467.23	475.39	468.14	476.20	468.92	475.28
466.50	465.62	467.24	473.88	468.15	482.45	468.93	486.99
466.51	468.09	467.25	490.13	468.16	484.92	468.94	482.99
466.52	476.85	467.26	585.74	468.17	479.15	468.96	481.27
466.54	483.60	467.28	482.79	468.20	506.26	468.97	595.70
466.55	484.90	467.29	504.13	468.21	483.00	468.98	486.69
466.57	463.31	467.31	627.47	468.22	488.01	468.99	541.82
466.58	475.95	467.33	475.76	468.23	482.35	469.01	490.01
466.59	482.72	467.34	594.52	468.24	480.27	469.02	475.94
466.60	480.04	467.36	479.96	468.25	471.96	469.03	466.61
466.61	479.62	467.38	477.83	468.26	457.61	469.05	593.63
466.62	462.89	467.40	485.51	468.27	469.30	469.06	477.40
466.63	476.18	467.44	477.36	468.29	479.37	469.08	482.32
466.64	484.45	467.45	483.07	468.30	501.29	469.10	486.16
466.67	502.84	467.46	490.12	468.31	485.93	469.11	596.69
466.68	467.67	467.48	482.06	468.32	477.39	469.12	458.65
466.70	486.20	467.49	515.17	468.34	480.64	469.13	483.12
466.71	483.51	467.50	472.68	468.35	484.04	469.14	480.75
466.72	486.80	467.51	477.44	468.37	478.52	469.15	479.71
466.74	481.85	467.52	478.66	468.38	513.85	469.17	514.96
466.75	475.95	467.53	481.36	468.39	548.93	469.19	499.41
466.77	477.56	467.54	486.84	468.40	442.73	469.20	466.85

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
469.21	462.44	470.09	597.59	470.95	475.25	471.76	490.19
469.22	514.29	470.11	487.11	470.96	586.14	471.77	467.69
469.23	485.14	470.14	457.49	470.97	484.97	471.79	481.61
469.24	470.24	470.15	484.78	470.98	472.77	471.80	478.92
469.25	472.09	470.16	451.69	470.99	486.89	471.81	475.56
469.28	497.70	470.17	594.35	471.00	493.20	471.82	479.48
469.29	477.65	470.18	475.91	471.01	553.25	471.83	488.04
469.30	592.56	470.19	491.38	471.03	473.77	471.85	486.93
469.32	482.28	470.20	504.42	471.05	467.55	471.86	484.31
469.33	483.11	470.21	462.03	471.06	476.17	471.88	466.28
469.34	491.85	470.22	473.99	471.07	478.02	471.90	507.12
469.35	593.83	470.23	476.74	471.08	462.79	471.91	516.70
469.36	436.05	470.24	481.11	471.09	474.21	471.93	490.40
469.37	482.22	470.26	467.50	471.10	471.48	471.95	488.98
469.38	466.69	470.27	490.72	471.11	467.68	471.98	505.17
469.41	470.65	470.28	477.28	471.12	504.68	471.99	481.83
469.43	468.79	470.29	489.23	471.14	487.12	472.00	473.45
469.44	483.92	470.31	488.52	471.15	478.19	472.01	495.61
469.45	496.70	470.32	487.86	471.16	483.89	472.02	595.25
469.46	595.58	470.33	513.88	471.19	487.03	472.04	502.34
469.50	477.85	470.34	481.39	471.20	489.36	472.05	509.38
469.51	477.88	470.35	483.66	471.21	462.01	472.06	586.97
469.52	454.25	470.36	479.19	471.22	481.48	472.07	479.48
469.53	486.62	470.38	478.95	471.23	500.72	472.08	477.96
469.55	464.94	470.39	473.50	471.24	475.75	472.09	517.02
469.56	498.38	470.46	477.51	471.25	469.96	472.10	481.65
469.57	464.28	470.47	596.70	471.26	482.76	472.11	502.40
469.59	466.58	470.49	494.24	471.28	505.45	472.14	463.30
469.60	472.16	470.51	507.11	471.29	455.64	472.17	477.09
469.63	480.55	470.52	483.85	471.30	491.13	472.18	486.08
469.65	503.15	470.53	469.99	471.31	480.59	472.20	491.86
469.69	515.05	470.54	481.35	471.32	508.24	472.21	485.40
469.70	471.47	470.56	476.42	471.33	475.88	472.22	465.76
469.71	452.17	470.57	481.41	471.36	595.80	472.23	499.15
469.72	476.80	470.59	488.79	471.37	474.58	472.25	479.04
469.73	513.76	470.60	498.83	471.38	470.24	472.26	480.44
469.74	495.20	470.61	469.41	471.42	596.37	472.28	488.60
469.77	481.60	470.62	484.12	471.44	481.31	472.30	487.75
469.79	474.25	470.64	469.29	471.46	474.85	472.31	453.79
469.82	479.75	470.66	470.18	471.47	465.44	472.32	499.86
469.83	485.49	470.67	476.03	471.48	478.95	472.33	553.90
469.86	477.25	470.68	478.61	471.49	490.43	472.34	595.66
469.87	476.61	470.72	470.76	471.50	595.36	472.35	518.56
469.88	477.83	470.73	492.25	471.51	476.08	472.36	468.31
469.89	516.39	470.75	474.53	471.53	471.07	472.37	475.28
469.90	504.06	470.76	487.22	471.54	476.60	472.39	465.09
469.91	474.91	470.77	482.01	471.55	435.61	472.41	473.00
469.92	531.40	470.79	472.99	471.56	475.45	472.42	482.78
469.93	483.21	470.80	438.61	471.59	489.34	472.43	485.86
469.94	492.26	470.81	480.68	471.60	488.34	472.44	470.72
469.95	470.65	470.83	472.08	471.64	467.77	472.45	479.57
469.97	474.46	470.84	484.82	471.65	485.31	472.46	487.09
469.98	476.05	470.85	477.82	471.66	485.46	472.47	597.11
469.99	475.03	470.86	477.03	471.67	439.67	472.48	488.24
470.00	565.28	470.89	468.65	471.68	488.10	472.49	471.66
470.01	481.54	470.90	466.59	471.69	535.47	472.50	464.75
470.02	491.12	470.91	477.14	471.72	478.83	472.52	482.06
470.03	456.87	470.92	478.75	471.73	488.80	472.53	653.43
470.04	481.61	470.93	510.16	471.74	472.80	472.54	482.50
470.07	468.50	470.94	485.12	471.75	489.28	472.55	474.91

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
472.59	476.65	473.46	487.35	474.25	480.90	475.05	477.39
472.61	496.03	473.47	512.95	474.26	484.58	475.06	483.20
472.62	502.60	473.48	479.09	474.27	512.12	475.07	493.30
472.63	479.71	473.50	594.08	474.28	475.63	475.10	515.66
472.64	475.94	473.51	587.15	474.30	476.35	475.12	534.11
472.65	458.54	473.53	595.55	474.31	627.58	475.13	468.00
472.66	466.04	473.54	472.00	474.32	479.97	475.16	478.23
472.68	495.58	473.55	486.99	474.36	534.32	475.20	484.77
472.69	476.69	473.56	484.02	474.39	519.22	475.22	485.31
472.70	480.73	473.58	501.79	474.40	484.48	475.23	481.43
472.72	514.01	473.59	489.08	474.42	472.93	475.24	484.69
472.74	480.66	473.60	486.19	474.44	489.17	475.27	490.88
472.76	587.72	473.61	477.05	474.45	586.61	475.28	504.27
472.77	485.69	473.62	485.91	474.46	500.82	475.29	510.01
472.78	483.54	473.64	490.52	474.47	473.69	475.30	478.32
472.81	491.27	473.68	586.40	474.48	517.86	475.31	503.93
472.85	470.47	473.69	496.45	474.49	496.96	475.33	494.82
472.86	472.32	473.71	505.46	474.51	457.45	475.34	477.43
472.87	480.60	473.72	511.00	474.52	489.55	475.35	489.28
472.89	489.70	473.73	486.46	474.53	484.17	475.36	477.99
472.90	484.50	473.75	512.13	474.54	462.82	475.37	511.61
472.91	489.31	473.76	464.83	474.55	487.94	475.38	482.70
472.93	485.29	473.77	487.08	474.56	504.63	475.39	482.54
472.94	483.15	473.79	476.78	474.57	487.07	475.40	472.43
472.97	486.55	473.80	485.85	474.58	490.20	475.42	447.22
472.98	483.99	473.81	491.87	474.59	496.06	475.43	474.73
472.99	493.92	473.82	495.64	474.60	482.27	475.45	442.79
473.01	483.30	473.83	483.24	474.61	482.22	475.47	483.62
473.02	488.58	473.84	471.08	474.62	523.59	475.49	485.90
473.03	464.02	473.86	486.51	474.63	471.99	475.51	652.69
473.04	489.55	473.88	481.84	474.64	608.51	475.52	477.54
473.05	475.51	473.91	495.42	474.65	478.33	475.53	474.63
473.06	488.74	473.92	597.42	474.67	496.79	475.54	481.76
473.08	511.80	473.94	473.77	474.68	475.37	475.55	505.44
473.09	490.62	473.95	494.30	474.69	466.96	475.57	477.80
473.11	477.78	473.96	476.57	474.71	492.64	475.59	469.57
473.12	471.63	473.97	486.98	474.73	490.84	475.60	475.98
473.14	477.95	473.99	598.42	474.74	487.14	475.61	552.50
473.17	587.51	474.00	489.19	474.75	482.84	475.62	486.08
473.18	486.50	474.01	487.09	474.76	490.85	475.65	485.47
473.22	481.73	474.02	486.10	474.77	586.79	475.67	475.71
473.23	505.05	474.03	481.41	474.78	491.31	475.68	480.64
473.24	468.48	474.04	585.58	474.79	497.96	475.69	587.23
473.26	486.02	474.05	487.29	474.80	532.95	475.76	587.73
473.27	471.49	474.06	522.66	474.81	469.09	475.77	485.00
473.28	478.98	474.08	471.14	474.82	489.39	475.78	484.65
473.29	486.14	474.09	496.88	474.83	474.99	475.80	480.75
473.30	488.00	474.11	493.10	474.84	490.92	475.81	487.10
473.31	485.12	474.12	479.40	474.86	496.66	475.84	551.96
473.33	603.62	474.13	491.61	474.87	520.65	475.86	495.99
473.34	471.65	474.14	473.82	474.88	482.59	475.87	486.81
473.36	476.01	474.15	481.83	474.92	463.69	475.88	476.22
473.37	475.58	474.17	492.36	474.93	458.06	475.91	661.21
473.39	473.31	474.18	461.00	474.94	482.11	475.92	512.54
473.40	453.24	474.19	482.56	474.98	488.57	475.93	493.15
473.41	597.60	474.20	474.54	474.99	477.19	475.94	491.16
473.42	479.12	474.21	598.16	475.00	476.43	475.95	484.89
473.43	475.84	474.22	508.46	475.01	521.13	475.97	478.74
473.44	479.69	474.23	487.00	475.02	492.29	475.99	474.93
473.45	477.03	474.24	597.28	475.03	481.29	476.02	489.22

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
476.03	487.08	476.95	491.46	477.79	485.87	478.57	496.35
476.04	465.44	476.96	472.49	477.80	477.25	478.58	500.14
476.06	470.95	476.97	486.75	477.81	531.05	478.59	475.20
476.07	476.36	476.99	542.49	477.82	487.24	478.60	491.69
476.09	484.75	477.00	512.53	477.83	490.36	478.64	511.58
476.13	475.75	477.02	481.71	477.84	489.90	478.65	496.23
476.16	485.15	477.03	487.45	477.85	489.16	478.67	521.94
476.17	496.84	477.04	490.67	477.86	597.69	478.68	482.86
476.18	594.47	477.05	479.74	477.87	474.00	478.70	488.83
476.19	483.27	477.06	483.33	477.90	484.78	478.71	482.66
476.21	537.00	477.08	555.14	477.91	482.37	478.72	495.96
476.22	487.25	477.09	505.96	477.92	470.65	478.75	476.08
476.25	485.93	477.11	470.21	477.93	482.45	478.77	481.60
476.26	483.97	477.12	479.50	477.95	479.42	478.78	488.18
476.28	488.33	477.13	489.96	477.97	493.61	478.79	497.47
476.29	487.84	477.14	487.59	477.98	481.81	478.81	597.80
476.30	481.03	477.15	494.04	477.99	481.30	478.83	485.15
476.35	494.87	477.17	523.73	478.00	513.62	478.85	496.27
476.36	514.17	477.18	597.81	478.01	596.81	478.86	479.88
476.37	653.24	477.19	485.77	478.02	471.80	478.88	477.20
476.38	483.71	477.21	587.62	478.03	474.80	478.89	490.03
476.40	483.64	477.22	493.62	478.04	480.46	478.90	521.50
476.42	501.32	477.23	473.69	478.05	492.12	478.91	586.18
476.44	480.06	477.24	494.73	478.06	487.68	478.92	485.54
476.45	490.31	477.25	485.84	478.07	496.76	478.93	484.64
476.46	490.64	477.28	489.74	478.08	482.82	478.94	492.37
476.47	538.03	477.29	488.90	478.09	498.91	478.95	464.62
476.50	475.76	477.30	437.50	478.10	474.48	478.96	484.92
476.51	488.28	477.31	470.53	478.11	374.87	478.97	486.39
476.54	476.24	477.32	477.92	478.12	477.48	478.98	520.42
476.55	498.52	477.33	483.25	478.14	502.04	478.99	462.33
476.57	486.89	477.35	481.15	478.15	531.34	479.00	516.61
476.58	503.98	477.38	505.97	478.16	516.76	479.04	485.17
476.59	508.14	477.39	485.97	478.17	475.08	479.05	559.94
476.60	471.48	477.40	480.56	478.19	597.25	479.06	494.40
476.61	478.78	477.43	492.82	478.20	478.39	479.07	482.71
476.62	627.55	477.44	491.80	478.21	519.91	479.09	487.73
476.63	489.18	477.45	506.28	478.22	495.77	479.10	499.03
476.65	634.05	477.46	587.02	478.23	490.08	479.11	486.69
476.68	490.39	477.49	511.92	478.24	493.83	479.12	557.89
476.70	521.13	477.50	498.68	478.25	484.90	479.13	451.19
476.71	492.74	477.51	483.68	478.26	490.71	479.14	487.40
476.72	477.95	477.52	484.89	478.27	479.11	479.15	484.96
476.73	597.47	477.55	446.17	478.28	485.88	479.16	515.82
476.74	487.95	477.56	489.17	478.29	495.20	479.17	500.80
476.75	492.51	477.58	520.68	478.30	471.21	479.18	482.06
476.76	493.87	477.59	471.87	478.33	594.76	479.20	521.63
476.77	484.99	477.60	486.22	478.35	480.29	479.21	495.37
476.79	476.33	477.62	489.47	478.36	494.29	479.22	489.70
476.81	501.83	477.64	491.64	478.37	476.28	479.23	498.38
476.82	494.24	477.65	472.55	478.38	484.37	479.25	481.28
476.83	504.74	477.67	490.44	478.39	587.87	479.30	494.34
476.85	487.37	477.68	489.65	478.40	478.90	479.31	482.63
476.86	482.00	477.69	490.70	478.41	477.56	479.32	482.72
476.87	504.52	477.72	485.95	478.42	495.45	479.33	503.52
476.88	494.67	477.73	470.25	478.43	505.33	479.34	482.77
476.89	510.65	477.74	489.71	478.44	495.04	479.35	478.67
476.91	476.28	477.76	482.76	478.49	487.87	479.36	475.27
476.93	479.08	477.77	494.36	478.55	493.16	479.39	485.66
476.94	491.74	477.78	476.04	478.56	473.55	479.40	495.75

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
479.41	521.58	480.33	482.89	481.12	567.47	481.99	497.05
479.43	504.48	480.34	488.62	481.14	482.19	482.00	487.07
479.44	488.51	480.37	478.48	481.15	518.15	482.01	481.32
479.45	478.38	480.39	473.07	481.16	484.71	482.02	485.01
479.47	493.43	480.40	387.91	481.17	493.17	482.04	499.75
479.49	483.02	480.41	514.02	481.18	489.27	482.05	495.54
479.51	470.86	480.42	520.66	481.19	483.87	482.07	587.66
479.52	480.90	480.44	483.72	481.20	485.15	482.08	495.27
479.53	493.80	480.45	493.59	481.22	491.81	482.10	481.91
479.58	495.13	480.47	489.14	481.24	495.88	482.12	484.35
479.59	485.18	480.48	493.35	481.27	493.91	482.13	485.77
479.60	481.22	480.51	473.28	481.28	493.49	482.15	481.03
479.61	488.82	480.54	487.33	481.30	494.69	482.17	475.44
479.62	627.60	480.55	490.55	481.31	492.92	482.18	521.30
479.64	494.34	480.57	484.91	481.32	487.27	482.19	488.95
479.66	529.92	480.58	487.09	481.34	496.58	482.20	510.91
479.68	491.03	480.60	505.72	481.36	570.39	482.23	496.46
479.69	471.83	480.62	654.05	481.39	477.51	482.24	489.23
479.70	595.95	480.63	587.30	481.40	514.32	482.25	493.27
479.72	496.10	480.64	471.51	481.43	505.26	482.26	466.88
479.73	478.89	480.65	485.04	481.44	588.38	482.28	487.78
479.75	489.16	480.66	528.79	481.45	486.80	482.29	496.19
479.76	485.64	480.67	491.62	481.48	494.92	482.30	500.22
479.77	598.75	480.69	524.54	481.49	586.28	482.32	525.10
479.78	492.12	480.70	495.02	481.50	506.59	482.33	493.64
479.79	518.21	480.71	495.96	481.51	494.18	482.34	483.72
479.80	481.16	480.72	492.38	481.52	480.90	482.36	501.83
479.82	492.88	480.73	485.70	481.53	494.01	482.39	481.22
479.83	495.33	480.74	483.53	481.54	482.34	482.40	493.47
479.84	490.68	480.75	491.11	481.55	490.96	482.41	513.15
479.87	482.37	480.76	485.04	481.56	507.16	482.42	514.29
479.88	490.15	480.77	483.76	481.57	494.57	482.43	485.79
479.89	483.78	480.78	486.93	481.58	495.59	482.44	484.05
479.90	506.81	480.79	497.34	481.59	489.06	482.46	472.55
479.91	485.92	480.80	479.36	481.60	505.25	482.47	495.25
479.92	491.72	480.82	485.36	481.64	493.86	482.49	482.74
479.93	483.67	480.83	514.31	481.65	485.48	482.50	514.76
479.99	480.21	480.85	495.90	481.66	491.38	482.51	486.25
480.01	475.54	480.87	495.96	481.67	499.73	482.53	486.40
480.02	522.43	480.89	475.86	481.68	479.78	482.56	587.88
480.03	481.37	480.90	488.01	481.69	444.14	482.57	476.39
480.04	490.47	480.91	486.95	481.70	595.97	482.58	491.96
480.05	485.60	480.92	495.15	481.71	489.07	482.59	519.40
480.06	485.97	480.93	497.17	481.72	532.27	482.62	485.71
480.08	491.35	480.94	495.34	481.74	480.37	482.63	489.53
480.09	486.03	480.95	596.30	481.75	481.86	482.67	494.03
480.10	473.35	480.96	587.80	481.76	494.47	482.68	496.62
480.14	588.37	480.97	487.21	481.77	483.80	482.69	479.71
480.15	475.86	480.98	494.98	481.78	490.49	482.70	484.16
480.16	482.49	480.99	508.77	481.79	494.17	482.71	470.19
480.18	477.41	481.00	493.92	481.81	486.57	482.72	490.39
480.20	597.26	481.02	480.92	481.82	497.37	482.76	492.84
480.22	484.93	481.03	475.92	481.84	491.54	482.78	497.76
480.25	599.25	481.04	490.13	481.85	486.08	482.79	493.57
480.26	476.22	481.05	496.93	481.86	477.82	482.80	595.48
480.27	473.25	481.06	471.06	481.87	480.65	482.82	588.23
480.28	477.57	481.07	496.12	481.88	516.96	482.83	485.46
480.29	459.42	481.08	516.62	481.90	499.39	482.86	484.49
480.30	494.80	481.09	490.15	481.95	485.27	482.87	504.73
480.31	515.19	481.11	498.88	481.97	493.78	482.89	504.10



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
482.91	481.40	483.75	507.86	484.76	546.14	485.67	483.08
482.93	555.31	483.78	492.62	484.77	479.52	485.68	470.80
482.94	475.37	483.80	504.58	484.78	497.86	485.70	495.89
482.95	490.93	483.81	483.55	484.79	523.60	485.72	498.06
482.96	496.47	483.83	476.37	484.80	470.32	485.74	502.88
482.97	483.04	483.86	492.32	484.81	482.82	485.77	596.71
482.98	488.81	483.87	495.84	484.82	536.94	485.78	491.34
482.99	494.32	483.88	514.93	484.84	498.84	485.80	489.86
483.01	486.21	483.92	481.88	484.85	493.39	485.81	487.41
483.02	485.00	483.94	520.79	484.86	491.17	485.83	495.12
483.04	484.62	483.95	497.94	484.87	497.00	485.84	492.68
483.05	480.16	483.96	497.79	484.88	479.08	485.86	495.32
483.08	489.51	483.98	503.32	484.89	478.92	485.87	506.60
483.09	496.57	483.99	494.02	484.92	484.05	485.88	478.26
483.11	482.77	484.00	484.72	484.93	466.81	485.89	494.62
483.13	497.76	484.01	516.09	484.95	497.13	485.92	595.23
483.14	490.23	484.02	520.11	484.96	494.05	485.94	588.17
483.15	481.65	484.03	487.18	484.99	496.36	485.95	485.45
483.16	480.62	484.04	485.87	485.00	519.66	485.96	492.16
483.17	544.95	484.06	492.13	485.03	596.74	485.98	496.79
483.18	472.10	484.08	611.64	485.04	492.98	486.01	489.11
483.20	500.42	484.09	497.58	485.05	469.58	486.02	490.92
483.21	490.76	484.12	488.89	485.06	508.23	486.04	498.79
483.24	483.15	484.13	486.52	485.07	496.64	486.05	487.71
483.25	490.26	484.14	490.37	485.08	653.35	486.06	509.23
483.26	496.97	484.17	597.21	485.09	524.15	486.08	489.56
483.28	481.97	484.18	484.94	485.11	475.42	486.10	561.81
483.29	461.42	484.19	497.72	485.12	497.37	486.11	503.35
483.30	598.27	484.20	529.84	485.13	485.27	486.12	503.36
483.31	495.71	484.22	446.77	485.15	488.47	486.15	482.10
483.32	487.33	484.24	509.54	485.16	492.68	486.16	485.65
483.33	529.65	484.25	491.00	485.18	497.40	486.18	492.98
483.34	491.83	484.26	490.04	485.20	493.71	486.19	490.67
483.35	489.58	484.27	488.49	485.22	491.13	486.21	494.59
483.36	486.68	484.28	496.19	485.23	495.65	486.22	501.94
483.39	628.05	484.30	499.67	485.26	483.18	486.23	564.49
483.42	470.55	484.32	481.68	485.27	490.87	486.24	520.96
483.43	598.13	484.33	494.99	485.28	480.39	486.25	510.15
483.44	490.56	484.34	487.72	485.29	494.08	486.26	498.22
483.45	481.55	484.37	497.38	485.33	432.34	486.27	465.91
483.46	504.08	484.38	527.15	485.34	494.35	486.28	489.57
483.47	482.71	484.39	522.33	485.35	491.99	486.32	492.40
483.49	494.00	484.40	507.53	485.36	494.31	486.38	488.43
483.52	493.68	484.41	474.35	485.38	481.42	486.40	596.85
483.53	481.11	484.42	587.58	485.39	492.92	486.41	520.76
483.54	475.85	484.43	496.81	485.40	515.92	486.42	494.89
483.55	491.70	484.44	521.54	485.42	500.48	486.43	499.75
483.56	484.88	484.45	476.78	485.43	595.70	486.44	525.25
483.57	498.99	484.48	501.26	485.45	509.23	486.45	497.44
483.59	479.24	484.49	509.85	485.46	494.29	486.46	488.86
483.60	480.92	484.54	494.70	485.47	486.48	486.47	597.39
483.61	483.59	484.58	497.25	485.49	653.88	486.49	485.92
483.62	486.36	484.60	485.02	485.50	497.74	486.52	489.59
483.63	653.30	484.62	499.25	485.58	488.15	486.55	493.18
483.64	493.40	484.64	495.36	485.59	599.05	486.56	481.43
483.65	510.92	484.66	499.67	485.61	505.42	486.57	487.27
483.67	504.07	484.68	521.09	485.63	497.30	486.58	475.46
483.70	470.35	484.69	473.29	485.64	529.41	486.59	517.10
483.72	487.10	484.70	524.78	485.65	488.74	486.60	492.29
483.73	490.84	484.74	461.45	485.66	500.50	486.61	522.58

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
486.62	505.29	487.49	494.48	488.48	445.45	489.35	477.91
486.63	473.08	487.53	597.83	488.49	594.65	489.36	480.34
486.64	490.18	487.54	494.23	488.50	497.26	489.37	502.32
486.65	568.41	487.55	488.40	488.52	487.32	489.39	497.16
486.67	495.83	487.56	500.99	488.53	491.16	489.42	505.68
486.68	507.51	487.58	444.00	488.56	490.03	489.48	496.95
486.69	484.70	487.59	485.61	488.57	495.88	489.49	490.89
486.70	529.75	487.61	493.40	488.59	528.39	489.50	498.99
486.71	501.26	487.62	627.91	488.61	508.32	489.52	533.28
486.72	598.44	487.64	467.11	488.63	497.65	489.53	495.25
486.74	493.77	487.65	479.57	488.64	488.40	489.54	500.29
486.75	566.01	487.67	503.66	488.69	487.60	489.56	507.35
486.76	484.50	487.68	597.50	488.70	496.92	489.57	479.94
486.77	492.49	487.71	489.09	488.72	495.68	489.58	487.57
486.78	595.72	487.72	487.10	488.75	491.11	489.61	480.31
486.79	499.33	487.73	481.57	488.76	512.39	489.63	487.37
486.80	484.33	487.75	491.31	488.77	516.11	489.65	499.24
486.81	494.49	487.78	519.00	488.78	494.17	489.66	480.76
486.82	511.09	487.79	511.25	488.80	509.60	489.67	493.53
486.83	504.00	487.82	499.69	488.81	501.93	489.68	500.56
486.84	508.47	487.85	488.23	488.83	484.48	489.69	492.60
486.88	494.55	487.86	486.92	488.84	495.11	489.70	481.62
486.89	526.46	487.87	491.29	488.85	522.20	489.71	478.78
486.90	479.16	487.88	516.60	488.86	499.28	489.72	483.47
486.94	484.25	487.89	587.73	488.87	654.17	489.73	488.90
486.97	487.84	487.90	510.36	488.88	501.41	489.74	498.65
487.00	501.09	487.91	526.42	488.90	488.41	489.76	523.12
487.01	496.78	487.92	514.31	488.91	523.50	489.77	596.64
487.04	520.33	487.94	491.66	488.93	480.54	489.79	475.66
487.06	484.39	487.96	530.08	488.94	479.44	489.80	496.31
487.07	494.85	487.97	525.91	488.95	495.29	489.81	494.39
487.08	520.94	487.98	489.68	488.97	482.55	489.83	503.46
487.09	498.62	487.99	507.52	488.98	599.01	489.84	494.12
487.10	481.76	488.00	475.19	488.99	467.37	489.85	509.21
487.13	498.15	488.01	485.41	489.00	494.73	489.87	495.57
487.14	530.21	488.03	506.45	489.01	496.73	489.88	499.64
487.16	496.62	488.04	509.86	489.02	521.57	489.89	487.91
487.17	598.25	488.05	390.89	489.04	478.13	489.90	502.84
487.18	496.09	488.06	513.03	489.05	507.17	489.91	597.13
487.20	499.40	488.07	493.74	489.08	519.84	489.93	480.68
487.21	492.69	488.10	489.45	489.09	525.87	489.94	493.99
487.22	492.21	488.11	500.72	489.10	518.06	489.95	499.86
487.23	489.20	488.12	496.26	489.12	497.46	489.96	555.34
487.24	563.13	488.14	588.20	489.13	491.72	489.97	503.46
487.25	491.87	488.16	499.56	489.15	509.18	489.99	495.10
487.26	542.16	488.18	502.56	489.17	522.58	490.00	497.79
487.28	595.23	488.20	508.67	489.19	497.60	490.02	498.92
487.31	524.65	488.22	486.28	489.20	495.97	490.03	628.11
487.32	494.20	488.27	596.90	489.21	496.27	490.04	597.29
487.33	483.17	488.28	489.60	489.22	489.09	490.06	479.88
487.34	499.35	488.30	499.87	489.24	492.70	490.08	501.89
487.36	493.58	488.31	491.87	489.25	487.33	490.09	482.76
487.37	560.83	488.32	494.69	489.26	491.15	490.10	497.90
487.39	487.17	488.35	488.63	489.27	494.56	490.13	495.81
487.41	493.80	488.37	470.01	489.28	492.69	490.14	472.56
487.42	492.09	488.38	491.72	489.29	598.48	490.15	500.00
487.44	496.43	488.41	485.75	489.30	597.42	490.17	505.99
487.46	488.68	488.42	467.54	489.31	597.90	490.20	499.62
487.47	487.60	488.44	499.79	489.32	525.68	490.21	502.42
487.48	596.40	488.45	503.72	489.33	489.69	490.25	510.11

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
490.26	491.59	491.15	472.40	492.01	541.97	492.87	479.12
490.27	514.33	491.19	532.54	492.02	525.32	492.88	496.98
490.29	505.59	491.20	498.91	492.03	498.46	492.89	497.66
490.30	511.17	491.21	486.00	492.05	502.88	492.90	488.84
490.32	492.43	491.23	501.60	492.07	588.11	492.91	504.00
490.33	516.23	491.24	506.62	492.08	500.22	492.92	488.16
490.35	503.33	491.26	490.41	492.09	482.32	492.94	503.17
490.37	587.54	491.27	565.11	492.10	588.35	492.95	588.45
490.38	498.86	491.28	503.44	492.11	522.96	492.96	484.32
490.39	587.08	491.29	499.35	492.15	489.29	492.99	489.30
490.40	492.24	491.30	479.72	492.16	525.46	493.01	493.05
490.42	508.39	491.31	488.65	492.17	491.08	493.02	492.89
490.46	447.32	491.32	504.03	492.19	492.60	493.04	498.26
490.47	516.33	491.33	588.27	492.22	514.69	493.05	497.16
490.48	499.58	491.34	498.85	492.23	498.35	493.06	492.35
490.50	506.41	491.36	522.91	492.24	523.51	493.08	494.01
490.51	498.78	491.37	477.65	492.25	501.33	493.09	495.67
490.52	507.36	491.40	502.71	492.26	492.15	493.10	501.26
490.53	500.09	491.41	499.11	492.28	491.77	493.11	497.20
490.54	490.68	491.42	519.15	492.29	504.07	493.12	496.54
490.56	491.87	491.43	500.01	492.30	494.22	493.13	500.96
490.59	501.85	491.45	512.32	492.31	522.87	493.14	492.53
490.60	500.90	491.46	491.94	492.32	498.33	493.15	475.96
490.61	481.56	491.47	584.52	492.33	504.72	493.16	486.11
490.62	501.44	491.48	493.31	492.34	501.97	493.17	507.81
490.63	489.10	491.49	492.98	492.35	499.55	493.18	504.12
490.64	497.59	491.51	463.27	492.37	482.33	493.19	488.31
490.65	498.34	491.52	502.61	492.39	485.99	493.20	503.55
490.68	507.01	491.53	495.07	492.41	495.96	493.21	487.41
490.69	507.62	491.57	472.57	492.44	503.14	493.23	534.84
490.72	497.52	491.59	518.19	492.45	493.44	493.25	492.78
490.73	486.50	491.60	461.07	492.48	501.81	493.26	493.68
490.75	526.27	491.61	524.93	492.49	494.36	493.27	504.38
490.76	493.74	491.62	502.62	492.50	500.24	493.28	501.59
490.77	512.81	491.63	491.56	492.51	499.63	493.30	525.00
490.79	490.17	491.65	588.66	492.53	473.60	493.31	598.15
490.80	597.94	491.66	479.35	492.54	499.28	493.33	493.39
490.81	496.06	491.67	502.06	492.55	502.23	493.34	497.77
490.82	498.45	491.68	503.19	492.56	521.18	493.35	524.64
490.83	501.61	491.69	597.68	492.57	489.75	493.40	504.14
490.84	494.49	491.71	587.72	492.59	506.44	493.42	500.54
490.85	509.52	491.72	523.07	492.60	511.67	493.45	497.96
490.87	496.88	491.74	499.18	492.61	575.25	493.47	588.43
490.88	489.50	491.75	509.68	492.62	510.83	493.49	512.44
490.89	461.55	491.78	528.21	492.63	494.73	493.50	502.72
490.90	506.57	491.81	653.42	492.64	598.04	493.53	502.75
490.93	488.85	491.82	596.52	492.65	483.38	493.54	532.16
490.96	487.00	491.83	484.56	492.66	491.64	493.55	487.72
490.98	523.52	491.85	536.01	492.67	494.12	493.56	525.23
491.01	587.28	491.87	496.36	492.70	533.17	493.57	497.06
491.02	495.78	491.88	479.82	492.71	498.99	493.58	496.38
491.03	488.20	491.89	499.14	492.73	526.45	493.59	653.73
491.04	492.88	491.90	653.63	492.74	595.89	493.60	504.14
491.05	482.19	491.91	487.48	492.75	501.04	493.61	493.72
491.07	597.35	491.92	494.99	492.77	530.87	493.63	473.59
491.08	528.38	491.94	498.94	492.78	499.61	493.66	502.63
491.10	489.86	491.95	503.23	492.80	588.69	493.67	495.09
491.11	501.57	491.97	492.46	492.81	529.32	493.69	490.80
491.12	505.65	491.98	494.45	492.83	520.93	493.71	494.74
491.14	488.16	491.99	485.84	492.86	532.30	493.74	588.96

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
493.75	482.83	494.61	502.03	495.39	496.24	496.29	491.00
493.76	599.23	494.62	487.78	495.40	499.41	496.30	598.60
493.77	506.53	494.63	504.30	495.42	510.57	496.31	492.47
493.79	501.91	494.64	588.17	495.43	515.40	496.32	499.19
493.80	514.72	494.65	485.46	495.44	529.49	496.33	534.87
493.81	484.49	494.66	463.25	495.45	489.93	496.34	541.54
493.82	556.84	494.67	492.03	495.48	599.24	496.36	501.70
493.83	564.10	494.68	597.22	495.50	504.56	496.37	507.16
493.84	505.02	494.69	506.70	495.51	502.48	496.39	530.74
493.87	495.61	494.70	485.49	495.52	507.97	496.40	528.01
493.89	523.09	494.71	508.29	495.53	573.78	496.41	498.84
493.90	498.90	494.73	532.07	495.54	504.29	496.42	289.73
493.91	515.74	494.74	504.79	495.55	495.01	496.43	503.60
493.92	497.90	494.75	481.75	495.58	507.76	496.45	492.67
493.95	492.76	494.77	500.52	495.61	500.46	496.47	498.02
493.96	570.69	494.78	491.00	495.62	492.04	496.48	507.78
493.97	492.78	494.80	537.17	495.63	510.41	496.49	493.23
494.00	515.43	494.81	495.20	495.64	598.63	496.51	521.32
494.01	486.63	494.82	516.81	495.65	501.82	496.53	503.80
494.02	524.48	494.83	654.14	495.66	502.57	496.54	504.63
494.04	497.54	494.84	500.98	495.67	497.22	496.57	498.37
494.07	569.58	494.85	487.60	495.68	496.93	496.59	487.94
494.08	496.09	494.86	495.05	495.69	532.17	496.60	503.36
494.09	536.06	494.88	505.07	495.71	492.59	496.62	501.36
494.11	486.16	494.89	500.73	495.73	628.17	496.65	498.48
494.12	493.30	494.90	487.87	495.74	500.96	496.67	483.27
494.13	588.49	494.91	488.34	495.76	528.14	496.68	495.39
494.14	529.98	494.93	576.93	495.77	513.88	496.72	537.29
494.15	495.36	494.96	491.60	495.78	504.79	496.73	490.55
494.16	560.40	494.97	512.23	495.79	495.56	496.75	506.87
494.17	599.50	494.98	508.25	495.81	507.15	496.77	482.07
494.18	504.43	494.99	531.89	495.83	521.73	496.78	492.76
494.19	571.29	495.01	598.33	495.84	502.80	496.79	568.08
494.20	587.84	495.03	491.72	495.85	654.22	496.81	563.03
494.22	504.21	495.04	498.44	495.87	501.88	496.82	495.41
494.23	529.88	495.05	523.13	495.88	512.88	496.83	474.45
494.24	497.71	495.06	527.52	495.89	486.02	496.84	588.49
494.26	503.77	495.07	597.83	495.90	507.09	496.85	598.85
494.29	514.49	495.08	506.90	495.91	516.38	496.86	504.70
494.31	518.72	495.09	500.71	495.92	471.15	496.87	494.43
494.32	507.91	495.10	487.59	495.94	530.40	496.88	495.25
494.35	503.40	495.12	486.01	495.96	489.54	496.89	495.46
494.36	598.75	495.13	506.29	495.97	504.22	496.90	501.14
494.37	579.84	495.14	505.92	495.99	489.19	496.93	517.85
494.38	486.96	495.19	497.67	496.01	500.03	496.94	495.40
494.39	502.71	495.20	493.44	496.05	487.50	496.96	500.66
494.40	452.06	495.21	494.95	496.06	503.10	497.01	524.83
494.42	487.24	495.23	496.01	496.07	504.61	497.02	496.32
494.43	493.31	495.24	504.38	496.08	596.02	497.03	500.52
494.45	599.86	495.25	491.19	496.09	503.46	497.04	489.88
494.46	497.30	495.27	493.08	496.10	502.87	497.06	495.64
494.47	502.54	495.28	497.31	496.13	475.35	497.07	505.44
494.48	494.49	495.29	599.64	496.14	494.53	497.08	499.47
494.50	496.58	495.30	494.82	496.16	506.91	497.09	572.44
494.52	487.75	495.31	538.70	496.17	504.13	497.14	496.21
494.53	497.08	495.32	504.71	496.18	501.29	497.15	497.61
494.54	512.06	495.33	498.64	496.19	528.81	497.16	505.53
494.55	505.34	495.34	497.33	496.20	506.31	497.18	500.20
494.56	505.58	495.35	503.22	496.23	491.38	497.19	533.95
494.60	504.61	495.37	588.52	496.27	507.38	497.20	501.47

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
497.21	600.09	498.09	505.37	498.86	491.77	499.66	495.35
497.22	502.77	498.10	499.56	498.89	522.99	499.67	523.11
497.23	668.77	498.11	505.93	498.90	502.93	499.68	501.20
497.24	627.88	498.12	493.43	498.91	502.07	499.70	509.59
497.26	506.75	498.13	525.06	498.92	494.22	499.76	500.62
497.27	489.90	498.15	495.28	498.93	509.01	499.78	579.15
497.28	500.15	498.16	500.12	498.94	489.85	499.79	528.46
497.29	496.46	498.17	506.79	498.95	510.45	499.81	509.90
497.31	502.28	498.18	495.77	498.96	502.03	499.82	496.45
497.33	535.25	498.20	504.29	498.98	513.38	499.83	498.29
497.34	531.73	498.24	541.71	498.99	541.71	499.87	534.04
497.35	588.89	498.26	503.98	499.00	494.50	499.88	502.66
497.36	495.51	498.28	506.37	499.02	504.12	499.89	538.84
497.37	582.15	498.29	597.67	499.04	496.85	499.90	510.63
497.38	522.40	498.30	492.08	499.05	498.74	499.91	518.60
497.39	492.19	498.31	599.84	499.07	654.32	499.92	497.00
497.42	479.51	498.32	488.25	499.08	501.72	499.93	498.74
497.44	654.26	498.33	505.43	499.09	527.09	499.94	500.83
497.48	527.97	498.34	497.95	499.10	501.91	499.95	504.86
497.49	479.76	498.35	501.23	499.11	515.52	499.97	496.16
497.50	504.80	498.36	503.65	499.13	498.84	499.98	541.52
497.52	489.60	498.38	497.96	499.14	508.79	500.00	600.04
497.53	503.41	498.40	492.46	499.15	574.25	500.01	503.47
497.56	597.57	498.41	504.18	499.16	573.30	500.02	506.90
497.57	501.38	498.42	502.00	499.17	506.87	500.03	540.28
497.60	529.68	498.43	489.83	499.18	460.89	500.04	477.40
497.61	492.73	498.46	505.19	499.20	507.38	500.06	493.07
497.64	497.30	498.47	528.91	499.22	527.51	500.07	506.48
497.65	507.66	498.49	492.65	499.24	532.90	500.09	508.39
497.66	588.11	498.50	504.09	499.25	505.16	500.10	493.78
497.67	506.92	498.51	499.58	499.26	499.33	500.12	521.36
497.68	512.44	498.52	496.05	499.27	535.39	500.13	494.27
497.69	500.42	498.53	503.41	499.29	508.45	500.15	495.79
497.70	505.97	498.54	588.88	499.30	502.04	500.18	478.82
497.71	497.19	498.55	500.14	499.31	488.03	500.20	496.41
497.72	525.97	498.56	501.05	499.34	522.95	500.21	507.99
497.75	543.56	498.57	508.37	499.38	527.54	500.23	503.21
497.76	496.33	498.58	533.36	499.39	504.87	500.28	499.16
497.80	532.37	498.59	506.69	499.40	422.43	500.30	588.73
497.81	506.17	498.60	506.52	499.42	504.79	500.32	534.25
497.82	496.75	498.61	518.90	499.43	508.83	500.33	535.11
497.83	513.18	498.62	510.98	499.44	512.80	500.34	505.45
497.85	533.60	498.63	532.09	499.45	499.78	500.35	536.71
497.86	497.66	498.64	500.14	499.46	551.18	500.36	501.23
497.88	505.77	498.65	537.31	499.47	491.13	500.38	527.52
497.89	493.05	498.66	598.24	499.49	500.34	500.39	496.44
497.90	503.88	498.68	494.64	499.50	507.62	500.40	599.68
497.91	501.11	498.69	502.52	499.51	511.70	500.41	507.52
497.93	519.75	498.70	525.52	499.52	497.48	500.43	513.66
497.94	504.41	498.71	501.26	499.53	508.50	500.46	500.38
497.95	503.63	498.72	543.29	499.54	503.10	500.48	512.17
497.96	517.47	498.73	503.05	499.55	575.37	500.49	516.85
497.97	507.46	498.74	528.79	499.56	511.22	500.50	589.08
497.99	510.16	498.76	477.97	499.57	495.29	500.51	500.38
498.00	502.00	498.77	504.75	499.58	485.71	500.52	502.62
498.01	497.84	498.78	598.45	499.59	504.47	500.54	511.33
498.03	499.44	498.79	525.45	499.60	501.37	500.58	492.44
498.05	529.25	498.80	511.29	499.63	512.76	500.60	506.77
498.06	503.68	498.81	600.57	499.64	497.39	500.63	506.46
498.08	502.32	498.84	505.70	499.65	505.49	500.64	505.25

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
500.66	499.07	501.58	507.14	502.45	600.11	503.26	492.04
500.67	497.44	501.60	495.65	502.46	505.98	503.28	514.52
500.69	506.34	501.61	588.89	502.47	509.40	503.29	498.13
500.72	598.41	501.62	503.83	502.48	513.18	503.30	509.44
500.73	508.15	501.63	547.00	502.51	494.26	503.33	493.98
500.75	525.79	501.64	498.81	502.52	512.29	503.35	509.80
500.77	540.95	501.66	514.69	502.53	500.09	503.36	507.99
500.78	490.61	501.68	506.57	502.54	505.61	503.37	506.80
500.79	501.96	501.69	538.37	502.55	509.60	503.38	587.94
500.80	499.04	501.72	499.05	502.56	599.46	503.39	508.46
500.82	503.52	501.73	528.97	502.57	512.55	503.40	497.25
500.83	507.08	501.74	510.32	502.59	531.71	503.41	498.03
500.84	504.69	501.76	597.95	502.63	535.17	503.42	496.84
500.85	470.26	501.78	599.69	502.64	525.29	503.43	513.10
500.86	531.48	501.81	488.48	502.66	507.50	503.44	588.57
500.87	536.68	501.82	601.73	502.67	490.48	503.45	502.51
500.89	502.22	501.83	499.52	502.68	479.76	503.46	527.73
500.90	500.48	501.85	511.77	502.69	499.21	503.47	513.52
500.91	499.28	501.86	596.97	502.70	516.32	503.50	514.62
500.92	499.40	501.87	505.78	502.71	502.43	503.51	522.65
500.93	498.54	501.90	553.20	502.72	492.95	503.52	509.90
500.94	497.38	501.91	512.34	502.73	580.83	503.53	654.17
500.95	494.67	501.92	503.06	502.74	501.33	503.56	509.13
500.97	507.36	501.97	598.27	502.75	509.04	503.57	598.27
500.98	508.73	501.98	509.55	502.76	589.14	503.58	501.81
501.00	508.20	501.99	503.69	502.79	496.03	503.62	508.44
501.01	501.78	502.01	494.05	502.80	506.60	503.64	505.98
501.02	508.79	502.02	575.93	502.81	457.81	503.67	597.83
501.04	500.12	502.03	498.27	502.82	534.93	503.68	516.89
501.05	502.42	502.04	496.30	502.84	512.92	503.69	510.13
501.06	506.34	502.05	523.81	502.85	513.64	503.71	501.27
501.07	513.84	502.06	531.42	502.86	505.98	503.72	536.54
501.08	503.34	502.07	510.14	502.88	510.43	503.74	516.50
501.09	511.87	502.08	494.32	502.89	491.48	503.75	503.69
501.10	541.59	502.09	508.42	502.90	600.31	503.77	494.81
501.12	503.71	502.10	495.13	502.91	497.45	503.78	500.25
501.15	509.04	502.11	537.39	502.92	509.47	503.80	500.97
501.17	484.68	502.12	511.33	502.93	488.78	503.81	533.19
501.18	499.87	502.13	505.37	502.94	493.92	503.82	512.72
501.21	479.25	502.14	497.73	502.95	491.91	503.83	502.93
501.23	505.60	502.16	505.16	502.97	548.40	503.84	504.18
501.25	502.40	502.17	512.10	502.98	504.34	503.86	526.26
501.26	596.84	502.19	536.54	502.99	517.07	503.88	510.50
501.27	502.21	502.20	504.67	503.00	588.77	503.89	509.64
501.29	498.91	502.21	504.08	503.01	530.67	503.91	565.20
501.30	488.97	502.22	505.20	503.02	507.26	503.92	509.47
501.32	598.04	502.24	564.30	503.04	507.03	503.94	509.99
501.33	536.02	502.26	531.07	503.05	500.65	503.95	597.88
501.34	497.38	502.27	511.89	503.07	508.50	503.97	654.14
501.37	521.86	502.28	505.14	503.08	517.60	504.01	510.00
501.38	503.94	502.30	598.66	503.09	493.51	504.02	535.12
501.39	536.94	502.31	494.90	503.10	512.22	504.03	499.89
501.40	507.30	502.33	488.48	503.11	502.67	504.04	495.11
501.41	490.55	502.35	535.84	503.13	521.19	504.05	520.35
501.42	483.91	502.37	516.32	503.15	628.39	504.07	511.51
501.51	528.52	502.39	498.61	503.16	493.77	504.08	505.04
501.52	517.12	502.40	507.80	503.19	512.53	504.10	499.12
501.54	529.98	502.42	495.58	503.21	521.74	504.11	499.73
501.55	498.29	502.43	503.77	503.23	628.18	504.13	508.69
501.56	496.76	502.44	513.54	503.24	579.20	504.15	496.44

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
504.16	600.64	505.03	494.00	505.85	495.08	506.73	534.69
504.18	564.33	505.04	522.46	505.86	482.51	506.74	628.35
504.19	484.29	505.05	542.47	505.87	502.33	506.76	509.81
504.20	525.89	505.07	496.51	505.88	508.82	506.77	509.83
504.22	502.28	505.09	508.16	505.92	600.11	506.78	506.52
504.23	522.85	505.10	558.52	505.93	579.12	506.79	518.16
504.24	506.00	505.11	505.14	505.94	514.53	506.81	517.96
504.27	512.01	505.12	501.34	505.95	506.20	506.83	574.85
504.28	495.04	505.13	508.92	505.97	517.04	506.84	529.70
504.29	488.99	505.14	503.28	505.98	499.79	506.85	512.04
504.30	522.45	505.17	513.07	505.99	516.42	506.87	504.39
504.31	504.59	505.18	555.36	506.00	589.46	506.88	522.53
504.32	492.87	505.19	512.22	506.01	494.71	506.89	508.28
504.33	514.25	505.20	499.17	506.02	503.50	506.90	541.29
504.34	503.74	505.21	503.90	506.04	498.46	506.91	476.30
504.35	508.30	505.25	581.12	506.05	507.39	506.92	486.80
504.38	494.79	505.26	476.96	506.07	518.16	506.95	509.74
504.40	501.12	505.27	486.01	506.08	540.22	506.97	505.37
504.41	512.20	505.28	497.59	506.10	500.76	506.98	506.17
504.42	512.10	505.29	501.57	506.11	541.94	506.99	495.01
504.45	497.99	505.30	497.21	506.12	601.46	507.00	512.05
504.46	500.47	505.31	511.75	506.15	510.72	507.01	587.67
504.47	497.53	505.32	499.05	506.16	513.76	507.03	513.38
504.48	511.37	505.33	526.90	506.17	507.73	507.04	513.75
504.49	505.82	505.36	508.31	506.18	519.80	507.05	515.12
504.50	511.73	505.37	503.37	506.19	508.88	507.06	486.12
504.52	535.51	505.38	566.16	506.20	513.25	507.08	496.60
504.53	497.27	505.40	505.57	506.21	599.48	507.09	575.19
504.54	501.65	505.43	492.71	506.22	512.33	507.10	485.36
504.55	600.72	505.44	506.48	506.24	521.66	507.11	486.31
504.56	505.89	505.46	508.32	506.25	501.16	507.14	518.07
504.57	506.68	505.47	511.72	506.31	546.40	507.15	513.96
504.59	510.69	505.49	513.94	506.32	534.61	507.17	541.20
504.60	511.78	505.50	487.85	506.33	581.00	507.18	500.03
504.63	589.39	505.51	498.84	506.34	482.07	507.19	511.75
504.66	510.87	505.52	501.68	506.35	509.84	507.20	512.32
504.67	506.31	505.54	510.26	506.36	509.50	507.22	509.96
504.69	511.39	505.55	576.81	506.37	504.87	507.23	500.05
504.70	506.96	505.56	502.60	506.41	511.75	507.24	531.98
504.71	511.46	505.57	500.43	506.43	598.75	507.26	589.10
504.72	547.27	505.58	501.20	506.44	504.54	507.27	503.45
504.75	491.82	505.59	600.80	506.45	536.56	507.28	495.15
504.76	505.68	505.60	492.59	506.46	505.42	507.30	508.66
504.79	533.26	505.62	497.32	506.47	494.58	507.32	498.01
504.81	499.11	505.63	503.17	506.48	485.33	507.33	512.25
504.84	525.31	505.64	542.50	506.49	486.17	507.34	515.43
504.85	518.84	505.65	508.14	506.51	492.54	507.35	502.92
504.87	514.83	505.66	507.79	506.54	535.20	507.36	509.65
504.88	524.14	505.67	506.48	506.57	498.30	507.37	519.31
504.89	500.33	505.68	505.93	506.58	527.32	507.38	518.80
504.90	499.77	505.69	599.93	506.59	510.69	507.40	504.93
504.91	506.27	505.70	508.49	506.61	500.83	507.41	519.15
504.92	502.34	505.72	516.77	506.62	503.58	507.43	511.49
504.94	507.12	505.73	511.02	506.63	509.76	507.45	508.69
504.96	503.23	505.74	504.88	506.66	510.11	507.49	514.17
504.97	526.26	505.76	589.34	506.68	585.36	507.50	514.37
504.98	502.30	505.78	511.00	506.69	497.38	507.51	512.49
504.99	500.20	505.79	511.10	506.70	600.10	507.52	501.88
505.00	598.65	505.81	523.93	506.71	501.19	507.53	598.95
505.01	511.25	505.82	501.16	506.72	510.95	507.54	511.13

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
507.55	517.46	508.39	516.64	509.28	512.35	510.21	546.44
507.56	518.41	508.40	469.63	509.30	519.69	510.22	519.53
507.57	543.13	508.42	489.23	509.31	508.61	510.23	511.33
507.58	498.40	508.43	505.70	509.32	513.99	510.24	499.77
507.59	506.67	508.44	510.38	509.33	498.02	510.25	511.84
507.61	508.05	508.45	544.68	509.36	509.26	510.28	511.25
507.62	579.93	508.47	512.66	509.38	529.16	510.30	515.15
507.63	499.28	508.48	512.61	509.40	514.69	510.31	501.73
507.64	500.57	508.49	509.68	509.41	507.08	510.33	502.55
507.67	514.48	508.50	508.12	509.43	510.56	510.34	600.20
507.68	533.81	508.51	502.77	509.44	511.42	510.35	530.32
507.69	519.23	508.53	503.42	509.45	509.66	510.36	518.46
507.70	514.43	508.54	482.79	509.46	535.73	510.37	544.57
507.71	509.60	508.55	500.99	509.47	509.35	510.39	601.55
507.74	513.01	508.56	504.71	509.49	504.39	510.40	521.64
507.77	515.17	508.58	504.79	509.51	488.16	510.42	505.13
507.78	504.85	508.59	577.66	509.52	506.26	510.43	520.32
507.79	506.70	508.60	541.20	509.57	513.27	510.44	515.34
507.80	534.90	508.62	540.87	509.58	499.27	510.46	536.38
507.82	508.37	508.63	508.11	509.61	531.60	510.49	515.01
507.84	507.29	508.65	519.25	509.62	498.54	510.50	504.38
507.85	518.79	508.66	514.34	509.64	329.02	510.52	500.43
507.87	549.81	508.68	530.28	509.65	523.76	510.54	508.09
507.88	506.08	508.69	600.35	509.66	501.12	510.55	509.53
507.89	512.82	508.70	509.56	509.67	503.60	510.58	509.97
507.90	507.71	508.71	514.32	509.68	515.79	510.59	511.99
507.91	598.52	508.72	502.04	509.69	582.60	510.61	520.06
507.92	516.59	508.74	494.12	509.70	503.65	510.64	513.08
507.95	499.59	508.76	495.57	509.71	654.77	510.66	513.88
507.97	545.54	508.77	504.31	509.72	589.11	510.68	541.31
507.98	502.94	508.78	483.50	509.74	628.37	510.70	540.06
507.99	515.43	508.80	497.08	509.75	513.09	510.71	502.03
508.00	514.18	508.81	599.98	509.76	499.06	510.74	519.47
508.02	496.17	508.82	507.52	509.77	509.20	510.77	501.64
508.05	510.39	508.83	510.78	509.78	589.48	510.80	513.17
508.06	509.30	508.84	541.48	509.79	514.24	510.81	504.95
508.11	506.06	508.90	504.59	509.82	557.51	510.84	507.05
508.12	504.95	508.91	509.38	509.83	506.38	510.86	506.88
508.13	511.68	508.94	503.20	509.84	537.12	510.87	531.70
508.14	512.17	508.96	523.12	509.85	505.51	510.90	495.01
508.15	513.49	508.99	508.20	509.87	515.46	510.91	508.71
508.17	532.52	509.00	512.66	509.88	515.89	510.92	506.99
508.18	505.84	509.01	513.93	509.89	498.13	510.93	513.06
508.19	541.39	509.03	510.92	509.92	530.58	510.94	467.43
508.20	535.76	509.04	514.29	509.93	514.14	510.95	584.85
508.21	512.08	509.05	504.33	509.94	549.77	510.96	509.94
508.22	509.62	509.06	502.07	509.96	512.66	510.99	522.62
508.23	498.97	509.08	505.88	509.97	507.84	511.00	514.22
508.24	525.23	509.10	654.74	509.98	507.20	511.01	517.50
508.26	498.23	509.12	511.12	510.02	498.10	511.02	534.84
508.27	510.10	509.13	519.66	510.04	543.10	511.03	514.68
508.28	583.62	509.14	510.81	510.07	486.94	511.04	539.82
508.29	514.01	509.17	509.19	510.09	514.07	511.05	514.08
508.30	503.38	509.18	509.97	510.10	511.74	511.07	506.08
508.31	493.68	509.19	503.48	510.12	511.70	511.08	524.68
508.32	508.88	509.21	540.69	510.13	501.48	511.09	528.92
508.34	496.69	509.22	543.83	510.15	514.08	511.10	503.07
508.35	589.21	509.23	507.75	510.16	542.95	511.11	549.36
508.36	500.65	509.25	511.61	510.17	514.22	511.14	523.36
508.37	589.57	509.27	505.76	510.20	508.71	511.16	516.18



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
511.17	511.68	512.04	518.41	512.81	589.28	513.73	507.52
511.18	518.85	512.05	512.07	512.82	628.41	513.75	503.84
511.20	490.24	512.06	515.82	512.84	655.18	513.76	538.25
511.21	525.27	512.07	521.72	512.85	505.41	513.77	580.02
511.22	530.36	512.08	507.73	512.86	515.52	513.78	499.80
511.23	506.27	512.09	510.10	512.87	504.86	513.82	509.84
511.24	544.58	512.11	593.19	512.89	582.43	513.83	538.10
511.25	497.28	512.13	589.46	512.91	515.95	513.85	533.40
511.26	506.55	512.14	510.48	512.92	522.16	513.86	512.99
511.28	509.25	512.15	514.72	512.93	516.19	513.87	514.23
511.30	505.45	512.16	530.30	512.96	524.87	513.88	543.32
511.32	508.86	512.18	513.04	512.97	502.83	513.89	523.50
511.36	490.93	512.19	583.99	512.98	548.13	513.90	496.59
511.38	499.33	512.20	514.19	512.99	513.41	513.91	508.13
511.43	508.73	512.21	519.36	513.00	512.68	513.93	546.38
511.44	654.30	512.22	518.39	513.01	536.27	513.97	515.87
511.46	504.77	512.23	501.60	513.05	479.55	513.98	589.75
511.47	578.06	512.24	512.33	513.08	510.54	513.99	511.28
511.49	509.54	512.26	511.67	513.09	528.99	514.00	502.48
511.50	509.12	512.27	513.89	513.10	534.67	514.01	507.70
511.53	545.53	512.28	509.71	513.12	653.93	514.05	508.05
511.54	521.33	512.31	503.88	513.13	514.37	514.06	530.76
511.55	506.28	512.33	533.99	513.15	589.51	514.09	516.82
511.56	476.80	512.35	515.63	513.16	505.86	514.10	517.25
511.57	566.54	512.37	515.34	513.18	512.21	514.14	551.12
511.58	496.61	512.39	514.17	513.19	503.99	514.16	603.67
511.59	511.24	512.40	511.09	513.20	507.50	514.19	563.76
511.60	505.16	512.41	589.72	513.21	602.96	514.20	516.04
511.61	542.82	512.42	548.41	513.22	516.56	514.21	598.80
511.62	515.49	512.43	537.92	513.25	512.99	514.22	495.65
511.63	653.98	512.44	654.34	513.28	565.26	514.23	578.38
511.64	600.53	512.45	514.91	513.29	512.86	514.24	601.49
511.65	497.18	512.47	654.62	513.30	521.47	514.25	497.59
511.67	516.80	512.48	481.39	513.34	521.85	514.26	502.16
511.68	506.92	512.49	519.34	513.35	515.99	514.28	553.76
511.71	493.52	512.51	517.97	513.37	495.22	514.30	535.15
511.72	564.02	512.52	508.82	513.39	496.30	514.31	513.13
511.73	589.08	512.56	534.00	513.41	502.64	514.32	538.82
511.74	601.08	512.57	600.32	513.42	510.28	514.33	508.73
511.76	511.64	512.58	524.15	513.43	516.70	514.35	600.07
511.77	600.43	512.59	503.47	513.46	554.36	514.36	654.94
511.78	601.15	512.60	480.41	513.47	499.47	514.39	521.74
511.80	503.71	512.61	496.09	513.48	513.34	514.42	517.55
511.81	538.68	512.62	513.94	513.50	515.65	514.43	510.53
511.82	506.14	512.63	515.23	513.51	589.92	514.44	542.16
511.83	500.76	512.64	511.54	513.52	514.07	514.45	503.41
511.84	601.36	512.65	512.26	513.54	506.79	514.46	541.73
511.86	521.36	512.66	538.67	513.56	505.17	514.47	513.54
511.88	518.04	512.67	513.66	513.57	599.48	514.48	524.55
511.90	516.96	512.69	517.28	513.58	511.36	514.50	508.93
511.91	500.50	512.71	654.66	513.59	518.38	514.55	495.55
511.92	511.80	512.72	518.72	513.60	504.34	514.56	508.90
511.93	513.43	512.73	501.45	513.61	526.34	514.57	504.51
511.94	499.19	512.74	514.70	513.63	544.65	514.59	510.79
511.97	506.91	512.75	505.84	513.65	502.98	514.61	506.21
511.98	503.90	512.76	519.95	513.67	518.78	514.63	548.47
511.99	549.33	512.77	515.52	513.68	510.12	514.64	514.49
512.01	513.60	512.78	598.57	513.69	502.72	514.65	513.45
512.02	509.53	512.79	510.68	513.70	507.86	514.66	542.95
512.03	515.61	512.80	496.47	513.71	546.15	514.67	515.40

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
514.68	504.76	515.58	521.58	516.46	518.05	517.41	507.68
514.70	518.38	515.59	513.38	516.47	549.85	517.42	589.95
514.71	572.77	515.61	510.14	516.49	521.90	517.43	512.25
514.72	517.77	515.63	516.51	516.50	514.72	517.44	517.54
514.74	522.78	515.66	510.36	516.51	523.91	517.46	512.85
514.76	521.42	515.67	506.17	516.52	491.47	517.49	512.36
514.79	507.09	515.68	518.95	516.53	541.01	517.50	516.96
514.81	514.94	515.69	495.81	516.54	482.53	517.51	523.47
514.82	517.09	515.70	506.72	516.55	543.62	517.53	515.04
514.84	508.73	515.71	533.30	516.56	506.25	517.54	518.13
514.86	542.08	515.72	519.33	516.58	540.78	517.56	530.24
514.87	511.05	515.75	654.85	516.61	602.23	517.57	540.02
514.90	503.28	515.76	518.12	516.62	511.05	517.59	516.94
514.91	514.96	515.78	490.86	516.63	519.18	517.60	529.34
514.92	581.92	515.79	508.22	516.64	602.68	517.61	499.75
514.93	510.59	515.81	522.61	516.65	514.74	517.66	515.56
514.94	589.57	515.82	502.65	516.66	545.80	517.67	524.55
514.95	654.61	515.84	518.36	516.68	521.81	517.69	518.08
514.97	511.03	515.86	549.50	516.72	597.22	517.74	534.43
514.98	504.79	515.87	545.93	516.77	588.99	517.75	505.93
515.01	589.29	515.88	519.52	516.78	507.16	517.77	519.63
515.02	510.39	515.89	506.67	516.79	512.74	517.78	572.75
515.03	541.09	515.92	512.21	516.84	509.20	517.79	517.50
515.05	509.78	515.93	511.05	516.85	513.98	517.80	524.60
515.06	510.90	515.94	512.01	516.87	543.64	517.81	537.87
515.07	502.32	515.95	530.92	516.88	506.92	517.82	517.49
515.08	513.57	515.96	522.51	516.89	510.77	517.83	543.92
515.09	514.15	515.98	514.04	516.92	513.25	517.85	510.68
515.12	513.07	515.99	496.66	516.93	522.00	517.86	592.49
515.13	522.14	516.00	518.11	516.94	506.02	517.87	655.39
515.14	535.45	516.02	560.94	516.95	512.83	517.89	599.47
515.16	516.17	516.03	545.31	516.96	527.93	517.91	519.40
515.17	544.43	516.05	503.59	516.97	514.54	517.92	599.21
515.18	513.94	516.06	511.87	516.98	505.97	517.95	601.17
515.19	589.69	516.07	517.78	517.00	514.65	517.97	508.16
515.21	509.75	516.10	511.02	517.02	570.10	517.98	516.66
515.22	541.09	516.11	552.88	517.05	481.77	518.00	601.12
515.23	508.21	516.13	496.98	517.06	586.05	518.01	515.98
515.24	542.69	516.16	600.12	517.07	461.44	518.03	517.79
515.27	549.86	516.17	511.15	517.08	533.79	518.04	521.01
515.29	523.03	516.18	503.63	517.10	480.74	518.06	509.79
515.30	515.11	516.20	506.70	517.11	547.07	518.07	519.03
515.31	590.05	516.21	512.28	517.14	599.67	518.10	524.78
515.32	513.42	516.23	514.17	517.16	503.74	518.12	508.47
515.35	522.68	516.24	504.54	517.19	549.83	518.15	599.56
515.36	499.64	516.25	510.11	517.20	557.13	518.16	513.63
515.38	541.88	516.26	520.60	517.21	515.71	518.19	508.88
515.39	524.33	516.27	511.23	517.23	512.03	518.21	488.14
515.41	590.75	516.28	512.93	517.25	516.41	518.22	512.80
515.43	517.14	516.29	538.54	517.26	535.55	518.24	547.08
515.45	514.80	516.30	511.49	517.27	510.80	518.27	526.12
515.46	524.97	516.31	281.79	517.30	510.36	518.28	589.34
515.48	510.42	516.33	516.25	517.31	628.27	518.30	505.58
515.49	517.22	516.34	504.47	517.33	584.59	518.31	512.41
515.50	515.40	516.36	514.12	517.34	506.60	518.33	533.76
515.52	505.74	516.37	545.53	517.35	514.37	518.34	510.16
515.53	523.29	516.39	509.52	517.36	542.33	518.35	519.36
515.54	515.04	516.40	518.38	517.37	524.64	518.36	540.02
515.56	516.61	516.44	520.04	517.38	517.06	518.38	534.69
515.57	504.46	516.45	585.66	517.39	519.46	518.39	520.26

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
518.40	518.11	519.26	544.59	520.36	511.43	521.21	520.66
518.41	561.84	519.27	540.90	520.37	518.51	521.24	502.81
518.43	529.96	519.28	510.13	520.38	550.02	521.27	603.37
518.44	513.58	519.31	545.09	520.39	516.39	521.29	590.01
518.45	588.38	519.34	590.32	520.41	503.20	521.30	547.66
518.46	547.15	519.38	600.77	520.42	600.19	521.33	514.65
518.47	516.17	519.40	521.98	520.44	518.24	521.34	526.12
518.48	513.46	519.42	583.73	520.45	564.89	521.35	519.81
518.50	537.88	519.44	602.31	520.48	518.74	521.37	522.33
518.52	524.17	519.45	579.24	520.50	511.29	521.38	493.09
518.54	492.86	519.48	524.61	520.52	514.16	521.39	518.00
518.56	589.31	519.49	519.26	520.53	516.90	521.44	515.92
518.57	519.21	519.50	514.59	520.54	503.49	521.45	520.12
518.58	524.74	519.51	517.47	520.56	526.31	521.48	535.74
518.62	524.12	519.52	516.47	520.57	547.19	521.49	501.72
518.63	525.29	519.55	518.64	520.58	591.59	521.50	516.75
518.64	517.98	519.58	522.55	520.60	522.76	521.53	528.83
518.65	550.09	519.59	543.67	520.61	519.65	521.54	485.29
518.68	525.60	519.63	587.14	520.63	549.41	521.56	517.25
518.69	516.32	519.64	513.19	520.64	511.87	521.57	525.17
518.72	504.17	519.65	500.25	520.65	555.88	521.58	512.16
518.73	515.56	519.66	654.42	520.68	571.02	521.61	504.53
518.75	515.11	519.69	511.40	520.69	602.60	521.62	522.03
518.77	515.17	519.71	551.40	520.71	518.31	521.64	601.31
518.78	566.56	519.73	514.25	520.72	532.33	521.65	506.57
518.79	552.28	519.74	518.31	520.73	519.52	521.66	521.64
518.80	512.45	519.75	589.75	520.74	543.30	521.67	519.05
518.81	481.55	519.77	571.89	520.75	513.58	521.68	520.31
518.82	532.51	519.78	518.82	520.76	496.22	521.69	601.32
518.83	513.84	519.81	513.10	520.77	550.58	521.70	515.46
518.84	542.13	519.83	539.40	520.78	520.19	521.71	590.07
518.85	525.27	519.84	506.31	520.79	510.76	521.72	508.71
518.86	602.32	519.86	507.86	520.81	600.16	521.73	520.86
518.91	514.31	519.87	503.86	520.82	525.52	521.74	506.40
518.93	518.92	519.90	516.40	520.83	516.86	521.76	511.55
518.94	512.61	519.92	533.94	520.84	512.36	521.77	600.33
518.95	512.52	519.93	523.53	520.85	503.60	521.78	513.06
518.98	519.68	519.94	510.80	520.86	500.84	521.79	511.05
518.99	529.43	519.95	550.12	520.87	520.71	521.80	528.08
519.00	519.46	519.97	535.35	520.88	520.70	521.84	518.88
519.01	513.03	519.98	567.33	520.89	598.36	521.86	530.70
519.03	601.56	520.04	547.90	520.91	548.70	521.87	599.39
519.04	521.75	520.05	512.75	520.93	506.95	521.89	553.23
519.05	515.89	520.06	519.65	520.94	512.37	521.90	515.65
519.06	519.51	520.07	601.02	520.95	587.86	521.91	629.30
519.07	511.41	520.08	509.80	520.96	550.21	521.93	508.15
519.08	516.27	520.09	544.64	520.97	517.44	521.94	554.83
519.09	589.57	520.11	523.47	520.99	505.77	521.95	514.55
519.10	542.48	520.12	511.61	521.00	517.94	521.96	547.01
519.11	506.94	520.16	543.91	521.01	514.85	521.97	520.48
519.12	527.60	520.18	590.81	521.02	518.12	521.99	530.57
519.13	518.52	520.23	505.31	521.04	628.54	522.00	507.56
519.15	590.87	520.25	515.72	521.06	520.54	522.01	553.82
519.17	518.09	520.26	511.54	521.10	512.68	522.04	543.87
519.19	518.91	520.27	507.72	521.11	502.22	522.06	602.36
519.20	514.09	520.30	598.93	521.12	519.25	522.07	577.52
519.21	509.63	520.31	518.00	521.13	492.20	522.08	519.86
519.22	515.53	520.32	518.46	521.14	517.24	522.09	578.95
519.23	509.12	520.33	515.54	521.18	628.98	522.10	516.42
519.25	514.32	520.35	510.10	521.20	512.02	522.11	511.49

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
522.12	519.75	522.88	502.89	523.70	600.38	524.56	553.23
522.14	527.20	522.90	528.60	523.71	518.10	524.59	518.58
522.15	545.29	522.91	602.84	523.74	544.02	524.60	513.72
522.16	604.34	522.92	516.10	523.75	535.18	524.61	521.88
522.18	522.12	522.95	520.86	523.76	506.91	524.62	541.09
522.19	564.49	522.96	506.53	523.77	520.06	524.63	523.57
522.20	517.50	522.98	539.50	523.78	511.58	524.64	517.65
522.21	521.66	522.99	547.66	523.79	537.28	524.65	601.92
522.23	518.04	523.01	522.65	523.80	515.67	524.66	551.69
522.24	520.77	523.03	511.93	523.81	654.89	524.67	590.57
522.26	554.71	523.04	523.78	523.82	528.57	524.68	522.44
522.27	517.71	523.05	520.97	523.83	509.69	524.69	590.48
522.28	517.91	523.06	522.46	523.84	513.67	524.70	553.55
522.31	601.33	523.07	509.74	523.85	527.40	524.71	517.92
522.32	520.72	523.09	554.43	523.87	492.69	524.72	557.44
522.34	519.87	523.10	478.63	523.88	500.22	524.74	550.11
522.35	511.11	523.11	545.24	523.89	555.44	524.77	513.29
522.36	582.12	523.12	543.23	523.90	505.49	524.78	520.89
522.37	521.14	523.13	522.91	523.91	509.94	524.83	496.80
522.38	589.17	523.15	523.65	523.93	541.53	524.84	513.37
522.39	570.12	523.16	514.67	523.94	520.45	524.85	522.77
522.40	549.33	523.17	594.97	523.95	521.08	524.86	506.13
522.41	521.48	523.19	521.50	523.96	549.17	524.88	521.79
522.42	510.41	523.20	511.04	523.97	577.78	524.90	524.36
522.43	521.30	523.22	518.36	523.98	540.70	524.91	520.00
522.45	540.95	523.23	488.04	524.03	498.27	524.92	508.55
522.46	530.93	523.24	527.53	524.05	520.99	524.93	507.90
522.47	545.52	523.25	590.71	524.06	552.44	524.95	628.46
522.48	521.21	523.27	516.54	524.07	550.79	524.96	543.64
522.50	506.27	523.28	416.01	524.08	594.47	524.97	561.63
522.51	521.34	523.29	526.73	524.10	600.25	524.99	555.99
522.52	523.05	523.30	511.41	524.12	519.75	525.00	548.65
522.53	520.63	523.33	518.94	524.13	654.49	525.02	524.11
522.54	521.04	523.34	551.13	524.14	560.46	525.05	552.91
522.55	512.75	523.36	528.65	524.16	511.17	525.07	520.73
522.56	509.11	523.37	516.99	524.20	603.55	525.08	534.47
522.57	521.66	523.40	504.43	524.21	510.90	525.11	552.02
522.58	504.36	523.42	588.02	524.22	548.25	525.14	470.66
522.59	578.92	523.44	520.62	524.23	507.92	525.15	601.97
522.60	513.42	523.45	518.12	524.24	649.78	525.16	524.11
522.64	524.09	523.46	600.02	524.25	484.98	525.17	602.38
522.65	539.92	523.47	516.88	524.26	516.19	525.19	526.17
522.68	550.02	523.48	519.55	524.27	603.67	525.21	522.48
522.69	601.32	523.50	534.80	524.29	519.36	525.22	514.24
522.70	590.50	523.51	517.94	524.30	524.03	525.23	506.97
522.71	520.96	523.52	521.49	524.31	517.78	525.24	515.80
522.73	541.87	523.53	528.49	524.32	519.00	525.25	493.66
522.74	515.67	523.54	629.17	524.35	514.78	525.26	545.48
522.75	517.25	523.57	531.21	524.37	512.51	525.27	514.63
522.76	525.54	523.58	511.55	524.39	628.63	525.32	522.73
522.77	522.49	523.59	518.53	524.40	521.98	525.33	590.43
522.78	519.90	523.60	527.95	524.42	518.88	525.34	529.41
522.79	526.21	523.61	521.57	524.44	527.96	525.36	520.69
522.80	557.89	523.62	508.90	524.46	528.14	525.38	518.75
522.81	524.48	523.63	516.24	524.47	518.97	525.39	513.34
522.82	599.89	523.64	516.96	524.49	511.26	525.40	499.12
522.83	511.46	523.66	521.59	524.50	507.85	525.41	521.25
522.84	517.63	523.67	569.13	524.51	556.73	525.42	511.96
522.86	551.10	523.68	527.32	524.52	602.89	525.43	513.25
522.87	589.46	523.69	520.75	524.54	590.29	525.44	655.21

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
525.46	517.29	526.41	338.80	527.32	599.39	528.34	543.63
525.51	560.72	526.42	521.50	527.33	517.61	528.35	563.34
525.52	521.90	526.43	521.92	527.37	534.42	528.36	525.31
525.54	475.77	526.46	524.00	527.38	517.75	528.38	524.44
525.55	536.61	526.48	523.94	527.41	553.73	528.39	515.82
525.56	541.62	526.51	520.71	527.44	602.91	528.40	531.43
525.57	527.00	526.54	517.48	527.46	552.59	528.41	521.99
525.58	518.78	526.55	518.65	527.47	519.02	528.42	629.32
525.60	523.83	526.57	655.39	527.48	520.92	528.44	518.40
525.62	578.88	526.58	528.48	527.51	654.90	528.45	605.14
525.63	597.88	526.59	520.70	527.52	590.31	528.46	559.78
525.68	521.71	526.60	509.86	527.53	490.63	528.49	519.94
525.69	521.26	526.62	518.54	527.54	514.94	528.51	602.21
525.70	521.02	526.65	523.12	527.56	525.62	528.54	562.43
525.71	516.99	526.66	514.83	527.57	562.15	528.55	517.54
525.72	501.47	526.67	523.33	527.59	564.02	528.56	546.95
525.75	523.76	526.68	549.12	527.60	556.43	528.57	563.33
525.76	590.45	526.69	522.95	527.63	531.32	528.59	519.17
525.77	589.99	526.70	591.17	527.64	521.21	528.60	547.20
525.79	523.61	526.71	516.13	527.65	521.05	528.61	517.47
525.80	412.04	526.72	542.10	527.66	601.19	528.62	590.82
525.83	520.87	526.75	522.27	527.69	518.22	528.63	559.70
525.84	517.13	526.76	532.75	527.70	499.16	528.65	514.07
525.86	517.14	526.77	554.75	527.71	534.43	528.67	517.71
525.90	552.06	526.78	555.38	527.76	553.54	528.68	556.74
525.91	545.53	526.79	524.89	527.78	600.51	528.69	521.28
525.92	655.37	526.81	513.00	527.79	602.27	528.71	602.27
525.93	555.99	526.84	515.93	527.80	524.68	528.72	524.20
525.94	528.94	526.85	526.27	527.81	655.68	528.74	543.76
525.95	513.09	526.86	508.23	527.82	529.69	528.75	601.32
525.96	520.74	526.88	523.02	527.83	513.09	528.76	519.17
525.98	522.07	526.91	523.50	527.84	508.80	528.77	508.83
525.99	602.07	526.92	505.34	527.85	567.62	528.83	512.48
526.03	519.95	526.93	655.44	527.88	500.14	528.84	519.65
526.04	519.57	526.94	530.73	527.89	524.10	528.86	524.86
526.05	524.58	526.95	590.23	527.92	513.48	528.87	583.20
526.07	508.76	526.96	589.83	527.94	520.07	528.88	520.76
526.10	555.94	526.97	600.67	527.98	523.15	528.90	517.82
526.11	549.80	526.99	555.32	528.00	573.20	528.91	530.53
526.12	590.39	527.00	522.35	528.01	514.64	528.93	522.31
526.14	562.03	527.01	542.46	528.02	604.50	528.94	546.94
526.17	524.56	527.02	568.83	528.03	518.42	528.96	528.74
526.18	505.55	527.04	514.76	528.07	442.57	528.97	518.91
526.20	516.23	527.08	529.63	528.08	497.29	528.98	522.20
526.21	484.19	527.09	556.32	528.10	655.35	529.00	590.11
526.22	521.86	527.10	522.82	528.11	523.62	529.01	528.09
526.23	523.54	527.12	523.74	528.13	527.21	529.02	601.44
526.24	537.71	527.13	527.14	528.14	516.30	529.03	515.45
526.25	600.99	527.15	517.62	528.15	516.75	529.04	540.88
526.26	521.79	527.16	517.67	528.16	656.25	529.06	527.51
526.27	517.07	527.17	519.82	528.17	524.40	529.09	523.82
526.28	525.23	527.18	552.66	528.19	548.63	529.10	525.37
526.29	513.81	527.19	566.33	528.21	602.45	529.12	526.44
526.30	574.73	527.21	515.83	528.22	522.34	529.14	525.08
526.34	526.81	527.22	524.20	528.23	516.83	529.15	518.51
526.36	518.35	527.23	523.35	528.25	525.49	529.16	518.24
526.37	521.90	527.25	524.56	528.27	600.83	529.17	508.04
526.38	655.00	527.28	470.69	528.28	600.84	529.18	522.91
526.39	552.85	527.30	517.26	528.32	590.72	529.19	517.39
526.40	539.34	527.31	602.22	528.33	516.74	529.21	523.23

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
529.23	515.02	530.11	543.97	531.04	539.74	531.97	545.88
529.24	520.31	530.13	528.72	531.05	629.46	531.99	527.12
529.25	526.21	530.15	603.64	531.06	629.57	532.00	522.59
529.27	590.25	530.16	526.29	531.08	519.76	532.01	522.07
529.28	510.46	530.17	520.91	531.12	591.00	532.04	544.07
529.31	521.91	530.19	521.01	531.13	526.05	532.05	544.82
529.32	514.83	530.20	523.33	531.14	556.57	532.10	526.79
529.33	523.24	530.21	536.37	531.15	602.23	532.11	526.35
529.35	528.21	530.22	590.78	531.16	524.34	532.12	497.90
529.36	516.62	530.23	522.78	531.17	531.89	532.13	654.85
529.38	521.21	530.26	550.44	531.18	524.70	532.14	518.44
529.39	560.12	530.27	517.40	531.19	512.13	532.17	526.91
529.40	527.36	530.28	521.20	531.20	602.60	532.19	556.75
529.42	602.08	530.29	601.62	531.21	597.25	532.20	590.97
529.43	525.64	530.31	521.14	531.26	527.07	532.22	514.45
529.44	526.28	530.33	520.11	531.27	521.89	532.23	549.44
529.48	522.68	530.34	527.55	531.28	527.20	532.24	629.28
529.49	562.82	530.35	566.59	531.29	552.34	532.25	548.52
529.50	521.33	530.36	524.44	531.30	514.44	532.26	629.36
529.51	526.83	530.37	565.60	531.31	523.12	532.29	546.22
529.53	590.52	530.38	535.00	531.32	524.92	532.30	506.07
529.54	520.93	530.39	529.35	531.33	529.48	532.31	533.16
529.55	607.45	530.40	556.53	531.34	534.64	532.32	520.71
529.58	522.83	530.41	521.74	531.35	549.51	532.33	527.27
529.59	522.88	530.44	586.42	531.37	590.11	532.36	518.16
529.60	511.86	530.45	539.09	531.38	526.11	532.39	518.70
529.61	546.58	530.47	529.00	531.40	524.46	532.41	584.46
529.63	523.41	530.48	516.68	531.41	603.42	532.42	562.53
529.65	524.61	530.50	526.21	531.45	511.24	532.43	561.09
529.66	518.92	530.51	517.55	531.46	520.11	532.45	552.19
529.67	601.00	530.52	655.72	531.47	596.58	532.49	520.63
529.68	523.08	530.54	561.61	531.49	601.09	532.50	523.63
529.69	523.47	530.55	524.96	531.51	504.79	532.53	518.07
529.70	629.10	530.58	520.66	531.54	537.71	532.54	519.72
529.72	559.89	530.59	559.76	531.56	512.35	532.55	527.35
529.75	522.47	530.60	545.98	531.57	520.68	532.56	526.65
529.77	524.14	530.64	521.04	531.59	556.26	532.57	526.93
529.79	523.82	530.66	516.40	531.60	557.81	532.59	516.84
529.80	629.68	530.67	522.04	531.61	528.84	532.61	525.57
529.82	526.07	530.71	563.22	531.64	523.52	532.63	516.75
529.83	511.62	530.73	581.33	531.68	526.70	532.65	514.72
529.84	590.42	530.74	533.91	531.70	521.26	532.67	523.56
529.85	524.15	530.75	560.64	531.71	523.02	532.68	514.08
529.88	516.60	530.76	545.95	531.72	526.58	532.69	509.68
529.89	593.84	530.77	532.28	531.73	543.77	532.70	515.94
529.90	567.79	530.78	555.99	531.74	533.67	532.72	533.01
529.91	528.90	530.79	520.53	531.75	514.67	532.74	522.98
529.92	527.04	530.80	517.53	531.76	513.73	532.75	516.69
529.94	600.39	530.81	525.36	531.79	525.04	532.76	523.85
529.96	590.24	530.85	517.88	531.80	526.40	532.80	528.13
529.97	520.14	530.86	555.31	531.81	522.21	532.81	557.44
529.98	527.76	530.89	525.68	531.84	628.51	532.82	526.42
530.01	518.69	530.90	504.40	531.85	529.37	532.83	556.38
530.03	519.88	530.92	526.78	531.88	521.83	532.85	519.85
530.04	522.75	530.94	512.08	531.89	525.57	532.86	541.33
530.05	530.20	530.95	508.71	531.90	520.29	532.87	531.32
530.06	524.46	530.98	518.56	531.91	519.88	532.88	604.33
530.08	522.98	530.99	525.35	531.92	604.02	532.90	527.94
530.09	533.41	531.00	522.91	531.93	582.44	532.91	460.74
530.10	536.68	531.01	523.65	531.95	523.93	532.92	561.33

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
532.95	527.76	533.80	524.59	534.82	527.93	535.75	591.41
532.96	521.87	533.84	525.93	534.83	527.97	535.77	651.56
532.97	528.67	533.86	566.45	534.84	524.89	535.81	561.08
532.98	530.11	533.87	522.76	534.85	526.86	535.86	520.36
532.99	525.21	533.88	519.54	534.86	511.20	535.87	526.34
533.02	526.47	533.91	505.42	534.87	533.69	535.88	517.58
533.03	519.97	533.92	567.42	534.88	604.45	535.90	535.11
533.04	525.56	533.93	597.56	534.92	516.89	535.91	562.59
533.05	520.14	533.94	565.54	534.94	521.29	535.92	560.19
533.07	519.60	533.96	516.90	534.95	527.47	535.93	538.65
533.08	525.99	533.98	519.40	534.96	524.66	535.94	506.65
533.09	526.70	533.99	562.46	534.97	521.07	535.95	526.43
533.11	514.20	534.01	601.48	534.99	528.71	535.96	630.52
533.12	556.54	534.02	591.80	535.00	521.75	535.98	591.89
533.14	531.41	534.05	601.02	535.01	509.46	535.99	533.32
533.15	603.66	534.06	532.03	535.02	538.41	536.01	517.54
533.18	496.40	534.08	505.70	535.03	528.92	536.03	526.45
533.20	563.55	534.09	533.09	535.05	563.06	536.05	656.21
533.21	550.06	534.12	523.15	535.06	527.55	536.06	560.95
533.22	519.59	534.13	555.03	535.08	540.46	536.07	528.59
533.23	522.40	534.14	557.17	535.09	562.51	536.10	552.42
533.25	562.06	534.15	513.84	535.11	601.92	536.11	524.73
533.27	500.16	534.16	525.77	535.12	527.70	536.13	499.36
533.28	524.39	534.18	538.05	535.13	608.22	536.14	526.27
533.29	525.58	534.21	561.36	535.14	524.54	536.16	530.30
533.30	535.56	534.23	505.69	535.15	524.99	536.18	524.86
533.31	520.94	534.24	522.68	535.16	566.18	536.20	509.90
533.32	525.31	534.26	522.52	535.19	526.96	536.21	540.55
533.33	516.83	534.30	559.65	535.22	515.48	536.23	563.17
533.34	520.55	534.31	600.07	535.23	526.12	536.24	601.44
533.37	602.58	534.35	524.42	535.25	602.48	536.26	591.82
533.38	531.76	534.36	527.66	535.26	629.19	536.27	558.92
533.39	557.97	534.37	532.51	535.27	520.75	536.28	534.99
533.40	521.35	534.38	525.71	535.28	561.87	536.30	487.46
533.42	527.74	534.39	528.27	535.29	527.43	536.31	597.05
533.43	560.93	534.41	525.32	535.34	524.83	536.32	523.43
533.44	511.37	534.42	526.81	535.35	521.16	536.33	538.63
533.45	578.09	534.43	526.15	535.36	534.79	536.34	527.46
533.46	521.37	534.45	529.23	535.37	560.13	536.35	553.02
533.47	508.92	534.47	529.96	535.38	555.47	536.37	552.77
533.48	524.21	534.48	591.16	535.39	591.98	536.40	529.81
533.53	512.16	534.49	521.90	535.41	531.86	536.41	527.27
533.54	524.92	534.50	527.81	535.43	526.57	536.45	555.83
533.55	512.35	534.54	529.47	535.45	561.23	536.46	528.46
533.56	528.46	534.55	550.24	535.46	525.74	536.48	533.16
533.57	521.11	534.57	629.46	535.48	589.73	536.50	567.30
533.58	520.54	534.58	515.90	535.49	525.89	536.51	574.85
533.60	531.19	534.59	562.30	535.51	530.07	536.52	528.99
533.61	583.07	534.62	527.72	535.52	569.62	536.54	510.92
533.63	539.91	534.64	604.76	535.53	561.21	536.55	529.31
533.64	578.19	534.67	529.11	535.57	564.37	536.56	519.70
533.66	518.90	534.68	515.50	535.58	524.83	536.58	527.14
533.67	522.13	534.70	524.51	535.59	533.42	536.59	606.02
533.69	523.42	534.71	554.05	535.60	513.61	536.60	528.12
533.70	513.34	534.72	527.26	535.62	564.47	536.61	557.51
533.71	530.83	534.73	559.18	535.64	527.25	536.63	557.06
533.72	537.08	534.74	527.90	535.66	536.58	536.64	535.60
533.73	590.51	534.75	564.38	535.67	516.93	536.66	526.33
533.74	497.35	534.77	525.34	535.69	512.37	536.69	544.53
533.76	519.91	534.79	516.59	535.71	571.49	536.70	562.26

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
536.72	516.90	537.65	530.00	538.67	527.08	539.49	534.06
536.73	525.21	537.66	604.09	538.68	519.93	539.51	591.40
536.74	581.53	537.67	523.30	538.69	534.46	539.52	656.97
536.75	590.80	537.68	553.03	538.71	531.53	539.54	536.31
536.76	541.41	537.71	562.72	538.72	601.92	539.55	525.49
536.77	521.92	537.72	592.09	538.73	527.27	539.56	528.70
536.80	590.66	537.73	522.48	538.77	606.75	539.57	586.56
536.81	549.74	537.77	526.60	538.79	565.97	539.59	605.23
536.82	528.43	537.78	525.61	538.82	533.59	539.60	530.31
536.83	526.53	537.79	551.39	538.83	522.94	539.61	546.39
536.84	516.99	537.80	540.89	538.85	558.46	539.62	527.65
536.86	524.52	537.81	534.06	538.86	530.10	539.64	555.77
536.88	520.41	537.82	525.82	538.88	520.45	539.65	535.79
536.89	568.57	537.83	520.05	538.89	529.02	539.66	518.95
536.90	601.19	537.85	531.14	538.91	536.56	539.67	528.76
536.91	591.06	537.86	528.20	538.92	522.08	539.68	560.09
536.92	541.45	537.87	529.33	538.94	555.04	539.69	568.71
536.93	530.87	537.88	535.37	538.95	565.33	539.70	520.95
536.99	519.17	537.91	561.52	538.96	559.83	539.71	530.61
537.00	517.88	537.92	522.95	538.97	530.60	539.72	522.83
537.01	526.29	537.93	544.36	538.99	516.33	539.73	510.24
537.02	547.39	537.94	566.35	539.00	545.94	539.75	529.51
537.04	520.59	537.97	522.88	539.01	528.12	539.76	522.81
537.05	484.23	537.98	562.04	539.03	529.92	539.77	527.86
537.06	533.35	537.99	605.42	539.04	631.00	539.78	528.75
537.08	532.71	538.00	527.98	539.05	529.33	539.79	601.86
537.11	525.70	538.04	535.83	539.07	526.58	539.80	592.14
537.12	576.25	538.06	530.25	539.08	525.22	539.81	517.48
537.14	531.65	538.07	528.24	539.09	530.75	539.83	529.05
537.17	532.75	538.10	529.37	539.10	534.53	539.85	565.87
537.18	532.66	538.12	523.27	539.11	565.12	539.88	563.61
537.20	587.08	538.14	567.70	539.12	602.55	539.89	527.93
537.21	535.64	538.17	629.99	539.14	590.60	539.90	522.57
537.22	591.01	538.18	568.01	539.17	530.87	539.91	531.11
537.23	605.59	538.19	582.05	539.18	532.01	539.92	567.03
537.25	535.51	538.20	521.69	539.19	590.63	539.94	521.77
537.26	532.52	538.21	531.51	539.21	523.71	539.95	563.44
537.27	520.16	538.24	530.15	539.22	526.78	539.98	528.33
537.29	537.34	538.26	528.40	539.23	558.41	539.99	655.91
537.31	510.11	538.27	520.54	539.24	531.69	540.01	560.26
537.32	592.36	538.28	591.32	539.25	529.59	540.02	655.13
537.35	604.08	538.30	604.79	539.26	526.91	540.04	591.96
537.41	521.10	538.32	530.02	539.28	528.70	540.05	656.50
537.42	527.40	538.34	520.49	539.29	590.66	540.08	530.30
537.43	530.03	538.35	562.73	539.30	590.03	540.09	522.76
537.44	580.60	538.36	629.82	539.31	594.62	540.10	513.10
537.45	528.00	538.37	602.51	539.32	521.77	540.12	590.94
537.46	515.53	538.40	614.31	539.33	558.03	540.13	519.70
537.47	528.52	538.42	553.01	539.34	568.97	540.15	529.12
537.49	540.98	538.43	589.02	539.37	520.56	540.16	530.04
537.50	578.65	538.47	502.77	539.39	559.73	540.17	525.51
537.51	591.13	538.48	531.07	539.40	529.82	540.18	535.90
537.52	528.11	538.50	525.49	539.41	605.87	540.19	523.90
537.53	534.38	538.51	532.42	539.42	556.20	540.20	527.11
537.56	560.74	538.53	565.47	539.43	631.13	540.21	529.05
537.60	544.55	538.54	532.53	539.44	523.94	540.22	523.14
537.61	515.32	538.59	518.82	539.45	523.33	540.23	521.68
537.62	517.73	538.61	523.56	539.46	527.05	540.25	523.42
537.63	547.30	538.63	604.69	539.47	526.25	540.27	526.18
537.64	566.84	538.64	571.03	539.48	521.81	540.28	604.77



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
540.30	536.69	541.23	531.37	542.06	568.45	542.97	527.47
540.33	561.51	541.24	528.34	542.07	510.14	542.98	535.77
540.34	528.71	541.25	534.33	542.08	531.20	542.99	531.99
540.35	530.09	541.26	529.80	542.09	590.92	543.00	530.58
540.36	546.02	541.27	529.52	542.10	551.38	543.01	543.96
540.38	562.92	541.28	524.14	542.12	528.64	543.02	536.61
540.39	540.94	541.29	414.01	542.13	530.62	543.03	630.87
540.43	591.43	541.30	454.32	542.15	532.81	543.04	570.57
540.44	537.07	541.31	527.04	542.16	532.16	543.05	566.76
540.45	528.68	541.33	531.02	542.19	656.97	543.07	522.71
540.46	600.02	541.34	564.18	542.20	631.13	543.09	533.57
540.51	533.56	541.35	558.68	542.24	557.10	543.10	602.48
540.52	604.08	541.36	539.05	542.25	531.53	543.11	534.08
540.54	536.89	541.38	530.80	542.26	529.78	543.12	523.24
540.55	590.91	541.39	576.14	542.27	530.77	543.13	520.10
540.57	526.91	541.40	530.03	542.28	552.30	543.14	570.50
540.59	656.43	541.41	546.77	542.29	590.96	543.15	558.87
540.60	527.71	541.42	530.11	542.31	601.69	543.16	527.25
540.63	550.94	541.43	526.05	542.32	526.71	543.17	532.93
540.65	505.05	541.46	527.16	542.33	532.48	543.18	523.69
540.66	528.32	541.47	529.25	542.34	434.26	543.21	530.78
540.67	530.53	541.48	528.22	542.35	602.38	543.22	604.94
540.69	528.71	541.52	656.60	542.36	522.41	543.23	547.65
540.70	528.23	541.53	591.52	542.38	528.50	543.24	567.38
540.71	550.37	541.57	556.43	542.39	517.32	543.25	539.08
540.72	526.81	541.58	609.39	542.40	603.48	543.26	655.73
540.73	529.21	541.59	527.27	542.42	604.66	543.28	586.73
540.74	528.95	541.60	546.14	542.44	590.80	543.30	553.73
540.76	531.11	541.61	528.83	542.46	565.21	543.32	537.75
540.77	532.82	541.62	655.57	542.47	531.46	543.33	603.98
540.78	540.92	541.63	539.06	542.48	563.36	543.34	525.55
540.79	575.18	541.64	535.26	542.49	544.02	543.36	496.00
540.81	532.00	541.65	570.02	542.51	566.11	543.37	532.28
540.83	526.73	541.66	560.34	542.52	604.03	543.38	533.23
540.84	540.14	541.68	603.44	542.55	525.15	543.40	553.85
540.86	535.32	541.71	520.77	542.56	553.50	543.42	533.75
540.87	558.20	541.72	537.64	542.57	561.11	543.43	537.25
540.91	529.33	541.74	523.31	542.58	532.32	543.44	568.19
540.92	511.16	541.75	530.00	542.60	583.83	543.45	603.41
540.93	529.53	541.77	523.65	542.61	526.15	543.46	527.06
540.95	531.50	541.78	591.32	542.64	525.41	543.48	526.74
540.96	530.34	541.79	580.89	542.65	562.08	543.50	534.64
540.97	526.55	541.80	547.95	542.67	557.30	543.53	591.53
540.98	527.63	541.81	530.87	542.68	531.49	543.54	603.79
541.00	531.30	541.82	528.51	542.71	536.55	543.55	591.38
541.01	534.27	541.84	555.71	542.72	520.19	543.59	524.75
541.02	556.15	541.85	552.60	542.73	530.65	543.61	530.64
541.03	529.74	541.87	531.01	542.75	537.51	543.62	529.97
541.06	556.85	541.88	561.24	542.76	531.36	543.63	604.30
541.07	542.94	541.91	666.33	542.77	557.11	543.64	570.42
541.08	534.37	541.92	526.92	542.78	537.96	543.67	565.83
541.10	543.90	541.93	573.81	542.80	560.14	543.68	535.80
541.12	529.45	541.94	526.88	542.81	656.22	543.69	547.94
541.13	535.83	541.95	525.53	542.84	537.14	543.70	537.27
541.14	522.97	541.96	539.12	542.85	543.54	543.71	604.26
541.15	608.40	541.97	582.71	542.86	528.00	543.75	540.30
541.16	535.15	541.98	527.20	542.87	530.51	543.76	548.29
541.17	516.00	541.99	583.43	542.88	567.03	543.78	547.05
541.20	525.16	542.02	530.02	542.89	524.88	543.79	538.58
541.22	564.55	542.04	530.94	542.92	516.85	543.83	529.72

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
543.84	526.33	544.77	535.94	545.71	590.71	546.73	591.35
543.85	591.32	544.78	530.58	545.72	570.53	546.75	573.85
543.86	591.83	544.81	530.34	545.73	532.39	546.77	533.63
543.87	530.49	544.83	605.71	545.74	553.98	546.80	551.77
543.88	527.84	544.84	536.82	545.75	369.44	546.81	531.52
543.89	533.52	544.85	553.53	545.76	563.05	546.82	555.21
543.91	518.40	544.87	546.60	545.77	591.28	546.83	536.17
543.92	525.26	544.89	531.84	545.80	534.88	546.85	526.69
543.94	539.54	544.90	565.89	545.83	601.64	546.87	537.11
543.95	543.26	544.91	531.77	545.84	545.03	546.88	550.76
543.96	528.91	544.92	567.04	545.85	532.57	546.89	532.64
543.99	529.27	544.93	535.29	545.89	532.30	546.90	609.93
544.00	526.16	544.94	530.52	545.90	529.63	546.91	536.20
544.01	655.80	544.95	530.08	545.91	565.73	546.94	535.34
544.02	528.51	544.96	549.37	545.93	547.96	546.99	538.13
544.03	555.78	544.97	529.75	545.95	530.22	547.01	591.41
544.05	528.15	544.98	562.53	545.96	527.68	547.02	534.06
544.06	541.87	544.99	604.06	545.98	538.57	547.03	655.37
544.10	603.68	545.01	553.18	545.99	531.25	547.04	508.65
544.11	536.57	545.03	614.27	546.00	558.18	547.05	608.42
544.13	591.85	545.04	570.67	546.01	655.70	547.06	529.10
544.14	561.31	545.05	552.40	546.05	558.00	547.09	580.89
544.16	529.53	545.06	524.81	546.06	529.92	547.11	532.79
544.17	603.87	545.08	538.20	546.09	520.37	547.12	562.28
544.18	530.28	545.09	568.78	546.13	591.84	547.14	528.63
544.19	368.69	545.11	536.51	546.14	563.33	547.15	533.94
544.22	552.04	545.12	591.23	546.17	591.32	547.16	609.20
544.24	531.09	545.14	532.71	546.18	503.64	547.17	534.24
544.26	532.83	545.17	522.37	546.19	553.36	547.18	520.24
544.27	535.11	545.19	529.66	546.21	547.99	547.19	553.96
544.28	601.98	545.21	532.84	546.22	532.41	547.20	531.14
544.29	531.91	545.22	537.78	546.23	527.80	547.21	561.51
544.31	535.90	545.23	349.07	546.24	569.15	547.22	604.14
544.34	590.71	545.24	615.61	546.27	533.63	547.23	605.78
544.36	566.58	545.26	530.60	546.28	606.63	547.24	528.89
544.37	530.38	545.30	566.37	546.29	532.80	547.26	585.07
544.39	610.41	545.32	528.28	546.31	596.38	547.27	525.48
544.41	529.12	545.34	606.34	546.32	551.52	547.28	591.69
544.43	572.06	545.35	533.25	546.39	564.21	547.29	575.43
544.44	537.00	545.36	540.25	546.40	530.64	547.30	523.63
544.47	656.57	545.37	532.15	546.41	582.47	547.31	533.90
544.48	604.67	545.38	529.55	546.42	534.96	547.33	531.69
544.49	532.66	545.40	534.27	546.43	656.52	547.38	554.44
544.50	532.62	545.41	531.41	546.44	565.78	547.39	515.89
544.51	584.02	545.42	528.07	546.46	591.34	547.40	591.70
544.52	520.93	545.43	549.14	546.47	533.65	547.43	544.34
544.53	603.70	545.44	530.21	546.50	630.16	547.45	656.16
544.54	533.90	545.45	532.27	546.51	559.25	547.48	525.17
544.60	591.43	545.46	575.60	546.52	532.17	547.49	531.41
544.61	527.04	545.47	525.65	546.56	522.75	547.50	533.74
544.62	532.11	545.49	520.55	546.59	603.58	547.51	531.81
544.64	526.15	545.50	532.31	546.61	523.73	547.52	531.17
544.65	535.14	545.51	526.84	546.65	656.15	547.53	534.02
544.66	602.83	545.53	517.47	546.66	510.83	547.56	535.30
544.68	529.16	545.56	555.47	546.67	468.85	547.57	539.11
544.71	542.45	545.57	532.05	546.68	528.20	547.59	532.65
544.72	567.97	545.59	527.57	546.69	565.74	547.60	539.02
544.73	570.94	545.60	591.30	546.70	513.63	547.61	554.56
544.74	532.02	545.66	538.67	546.71	548.76	547.69	536.34
544.75	527.64	545.67	535.08	546.72	511.94	547.71	536.47

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
547.72	537.62	548.64	538.80	549.52	534.97	550.50	539.83
547.73	591.62	548.65	533.62	549.54	525.21	550.51	532.21
547.74	580.32	548.66	564.51	549.55	532.11	550.52	530.70
547.75	526.80	548.68	603.79	549.56	533.42	550.53	591.61
547.76	591.67	548.69	604.35	549.58	604.76	550.56	562.58
547.77	604.68	548.70	629.98	549.59	541.78	550.58	532.21
547.78	537.27	548.71	528.89	549.60	526.70	550.60	609.67
547.79	536.53	548.73	543.30	549.61	556.90	550.61	571.67
547.80	591.93	548.74	531.14	549.63	603.65	550.62	538.23
547.81	535.01	548.75	540.08	549.65	604.80	550.63	538.86
547.82	526.47	548.76	599.73	549.66	525.56	550.64	629.35
547.88	552.55	548.77	656.64	549.68	536.26	550.66	403.66
547.89	591.77	548.78	540.94	549.71	601.64	550.67	533.79
547.90	592.01	548.79	536.86	549.72	534.85	550.68	570.34
547.91	532.61	548.81	534.15	549.75	534.18	550.71	591.68
547.92	528.78	548.83	587.68	549.78	538.85	550.78	534.42
547.93	565.72	548.85	520.94	549.79	538.86	550.79	522.70
547.94	571.68	548.86	541.26	549.80	528.91	550.84	566.94
547.95	538.06	548.89	552.33	549.83	630.17	550.86	530.00
547.96	534.94	548.90	607.83	549.84	534.30	550.89	551.99
547.98	592.43	548.91	525.01	549.85	529.77	550.90	533.83
547.99	529.19	548.92	527.78	549.88	654.87	550.91	630.30
548.01	559.49	548.93	604.79	549.90	567.03	550.92	556.34
548.02	586.67	548.94	524.70	549.91	534.79	550.94	564.32
548.05	603.59	548.96	539.39	549.92	572.68	550.96	606.35
548.06	528.21	548.97	533.81	549.93	539.71	550.97	538.78
548.08	537.97	548.98	533.59	549.97	607.11	550.99	528.28
548.09	535.73	548.99	537.80	549.98	605.02	551.01	587.89
548.10	532.85	549.00	532.28	550.01	573.72	551.02	531.35
548.11	558.77	549.02	555.45	550.03	532.82	551.06	560.18
548.12	591.33	549.03	547.66	550.04	543.51	551.08	565.85
548.14	539.93	549.04	540.40	550.05	597.94	551.12	534.89
548.17	656.70	549.05	531.22	550.06	535.81	551.13	530.22
548.19	533.10	549.06	536.00	550.07	569.33	551.15	531.39
548.20	592.34	549.07	532.38	550.08	542.34	551.16	541.57
548.21	534.46	549.08	548.12	550.09	536.04	551.19	541.48
548.22	532.50	549.10	569.69	550.10	592.35	551.21	531.27
548.25	590.82	549.11	603.43	550.11	606.22	551.24	539.41
548.26	537.56	549.12	533.05	550.13	558.56	551.25	592.17
548.27	531.54	549.13	531.56	550.14	604.91	551.27	534.06
548.28	532.05	549.15	605.06	550.15	603.60	551.28	531.33
548.29	533.21	549.16	532.91	550.17	528.61	551.29	538.42
548.30	537.02	549.17	589.54	550.18	533.10	551.30	604.36
548.31	526.25	549.19	533.63	550.20	533.13	551.31	531.02
548.32	564.97	549.20	592.27	550.21	533.99	551.32	530.76
548.39	532.29	549.23	547.89	550.23	528.85	551.33	591.70
548.40	524.35	549.24	556.48	550.24	523.43	551.34	604.75
548.41	523.98	549.29	529.61	550.26	574.65	551.36	542.94
548.43	612.00	549.30	529.07	550.27	546.63	551.37	604.52
548.46	532.91	549.31	532.47	550.28	630.96	551.38	570.58
548.47	537.33	549.36	553.37	550.29	583.42	551.39	534.61
548.48	539.45	549.37	537.64	550.34	535.00	551.41	531.98
548.51	404.33	549.39	533.40	550.37	618.89	551.42	558.79
548.53	522.11	549.40	612.48	550.38	608.65	551.43	535.67
548.55	531.57	549.41	572.32	550.39	531.24	551.44	539.97
548.56	605.51	549.42	536.81	550.41	524.05	551.45	534.65
548.58	524.12	549.43	588.20	550.42	630.31	551.46	535.20
548.59	529.27	549.45	533.87	550.46	570.35	551.47	606.89
548.62	524.82	549.48	568.66	550.47	527.72	551.50	549.40
548.63	555.54	549.51	569.45	550.48	546.38	551.51	546.66

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
551.52	529.18	552.42	532.01	553.32	534.88	554.36	656.67
551.55	546.18	552.43	656.18	553.33	535.15	554.37	538.58
551.56	537.09	552.45	526.17	553.34	534.56	554.41	618.11
551.57	538.77	552.47	567.50	553.35	531.60	554.44	566.62
551.58	570.60	552.48	658.06	553.36	533.97	554.45	577.56
551.59	549.76	552.49	657.27	553.38	532.42	554.48	605.46
551.60	588.55	552.50	616.20	553.40	535.34	554.49	571.64
551.61	535.45	552.51	525.95	553.42	533.77	554.52	534.51
551.63	538.87	552.52	533.13	553.46	528.80	554.55	579.15
551.64	609.97	552.53	541.22	553.48	603.34	554.58	539.76
551.65	529.37	552.55	532.51	553.50	529.51	554.59	540.82
551.66	524.69	552.56	531.61	553.53	531.15	554.60	630.99
551.67	488.21	552.57	549.96	553.54	570.03	554.61	570.56
551.70	529.54	552.60	536.99	553.55	541.09	554.62	591.44
551.72	611.79	552.63	533.65	553.56	547.88	554.63	575.96
551.75	539.67	552.65	565.14	553.57	544.48	554.66	545.83
551.77	566.61	552.66	544.74	553.58	591.82	554.67	571.62
551.79	579.29	552.69	544.45	553.62	540.79	554.68	657.59
551.80	537.86	552.71	530.94	553.63	563.67	554.69	570.57
551.84	569.20	552.72	528.93	553.66	528.72	554.71	605.37
551.86	657.85	552.73	566.16	553.67	558.82	554.72	542.15
551.87	524.36	552.74	539.33	553.69	521.17	554.73	514.49
551.88	534.67	552.76	528.59	553.70	575.41	554.74	536.33
551.90	606.02	552.77	538.23	553.71	574.71	554.75	572.90
551.91	511.89	552.78	619.11	553.72	535.76	554.76	529.25
551.92	522.98	552.79	538.26	553.75	531.61	554.77	591.52
551.94	525.43	552.83	541.49	553.76	575.79	554.79	565.42
551.95	535.32	552.84	532.08	553.81	604.18	554.80	527.55
551.97	592.40	552.85	530.56	553.82	544.73	554.82	604.83
551.98	531.87	552.86	535.60	553.83	525.87	554.83	546.07
551.99	531.66	552.87	543.62	553.84	573.74	554.84	528.61
552.01	552.83	552.88	526.23	553.85	533.02	554.88	548.99
552.02	538.61	552.89	531.87	553.87	544.14	554.94	569.96
552.03	530.88	552.90	603.59	553.88	547.27	554.95	575.27
552.04	526.61	552.91	390.92	553.89	519.59	554.96	541.29
552.05	568.01	552.92	604.58	553.90	534.56	554.97	544.14
552.10	557.08	552.93	591.79	553.95	586.84	554.98	592.17
552.11	593.34	552.94	535.34	553.96	572.93	555.01	545.43
552.12	530.34	552.95	535.24	553.99	539.66	555.02	537.19
552.13	540.26	552.96	604.60	554.00	606.15	555.04	574.23
552.15	532.75	552.98	535.93	554.01	536.90	555.06	537.18
552.16	656.01	552.99	569.92	554.02	541.09	555.07	531.83
552.17	568.62	553.01	533.15	554.04	532.69	555.08	527.94
552.18	525.69	553.02	542.24	554.05	573.24	555.10	532.17
552.19	566.96	553.03	605.37	554.07	536.17	555.12	508.69
552.20	543.05	553.07	537.93	554.08	577.43	555.13	656.67
552.22	528.43	553.08	533.23	554.12	533.11	555.16	559.99
552.23	605.74	553.09	570.77	554.13	549.52	555.19	577.05
552.26	543.11	553.10	526.27	554.14	576.76	555.20	537.30
552.27	564.26	553.12	620.44	554.15	557.99	555.21	547.37
552.28	534.35	553.16	533.72	554.16	537.21	555.23	550.48
552.31	524.45	553.18	569.21	554.19	524.99	555.24	532.43
552.32	585.57	553.19	551.98	554.27	538.33	555.25	656.53
552.34	544.78	553.20	605.11	554.28	567.76	555.26	583.24
552.35	576.32	553.23	571.87	554.29	602.78	555.27	538.24
552.36	542.71	553.24	571.20	554.30	535.87	555.28	580.72
552.37	605.33	553.26	572.98	554.31	527.08	555.29	526.07
552.38	536.14	553.28	604.83	554.32	538.23	555.31	532.20
552.39	604.85	553.30	541.11	554.33	655.83	555.33	607.31
552.40	592.30	553.31	528.90	554.35	534.84	555.34	603.89

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
555.38	538.88	556.23	533.15	557.29	659.49	558.19	605.89
555.39	574.64	556.26	535.85	557.31	556.56	558.20	532.88
555.40	528.64	556.27	611.33	557.33	536.43	558.22	536.65
555.43	605.74	556.35	522.50	557.34	630.26	558.25	535.72
555.44	591.97	556.38	545.17	557.36	534.81	558.26	546.56
555.45	544.15	556.41	543.48	557.37	533.63	558.28	536.54
555.46	550.48	556.42	533.20	557.39	581.40	558.31	605.96
555.47	540.02	556.45	551.69	557.42	530.77	558.32	550.56
555.49	498.84	556.46	537.47	557.43	656.48	558.40	548.02
555.50	570.03	556.50	538.25	557.44	537.72	558.41	582.86
555.51	549.25	556.52	575.11	557.46	577.23	558.45	577.70
555.52	535.21	556.53	571.17	557.48	656.76	558.46	607.51
555.53	575.06	556.55	534.36	557.50	546.69	558.48	541.11
555.54	600.27	556.57	530.22	557.51	543.63	558.50	608.71
555.56	529.00	556.61	573.59	557.52	621.29	558.52	631.00
555.57	536.53	556.62	571.63	557.53	550.04	558.54	542.14
555.58	535.32	556.63	620.22	557.55	576.57	558.55	543.74
555.60	526.78	556.64	574.53	557.56	520.75	558.56	530.14
555.61	535.43	556.67	581.71	557.59	613.17	558.57	543.74
555.62	549.33	556.69	525.40	557.60	606.10	558.58	569.30
555.63	535.87	556.70	603.90	557.61	568.82	558.60	563.66
555.64	529.91	556.71	540.33	557.62	614.48	558.61	539.37
555.65	632.36	556.73	533.25	557.63	656.31	558.62	524.74
555.66	591.67	556.75	543.52	557.64	538.30	558.64	487.75
555.67	553.41	556.77	526.60	557.65	569.23	558.65	537.89
555.68	529.04	556.78	618.33	557.66	575.68	558.66	530.76
555.69	595.29	556.79	537.84	557.67	591.99	558.68	575.39
555.71	526.13	556.81	570.24	557.70	547.97	558.73	630.46
555.73	531.72	556.82	540.03	557.71	571.32	558.74	607.01
555.74	578.93	556.83	537.52	557.72	530.72	558.75	538.42
555.75	540.26	556.84	537.15	557.73	535.67	558.77	533.34
555.76	554.05	556.85	548.04	557.74	530.53	558.78	631.22
555.77	612.90	556.86	537.58	557.75	592.37	558.81	568.01
555.78	536.38	556.87	599.23	557.77	530.07	558.82	560.42
555.82	568.37	556.88	518.65	557.78	537.49	558.86	536.42
555.84	542.07	556.89	583.91	557.81	534.79	558.88	593.17
555.85	573.31	556.90	536.60	557.84	538.88	558.89	541.33
555.86	545.20	556.93	583.05	557.87	606.46	558.90	538.66
555.87	538.99	556.94	540.41	557.89	537.73	558.95	631.48
555.88	631.26	556.95	580.72	557.90	542.94	558.96	541.81
555.89	614.48	556.96	570.20	557.91	577.04	558.97	587.51
555.90	532.65	556.98	570.57	557.92	577.60	558.99	604.90
555.91	532.25	556.99	545.32	557.93	592.91	559.00	534.62
555.93	549.56	557.00	534.26	557.94	575.05	559.02	583.01
555.95	585.98	557.02	596.00	557.96	537.27	559.07	536.29
555.98	585.87	557.05	537.68	557.99	533.79	559.08	569.35
555.99	504.20	557.06	529.18	558.00	539.57	559.09	524.73
556.00	534.19	557.07	536.35	558.01	606.35	559.10	555.01
556.01	568.53	557.08	527.24	558.02	583.58	559.12	623.41
556.02	554.34	557.10	531.39	558.03	583.36	559.18	591.20
556.05	555.25	557.13	533.50	558.04	573.42	559.19	537.29
556.08	630.45	557.14	538.68	558.05	535.87	559.20	534.42
556.09	531.17	557.16	530.48	558.07	657.86	559.21	605.70
556.10	541.69	557.18	657.44	558.08	558.98	559.23	605.44
556.13	530.22	557.20	576.86	558.09	536.06	559.24	536.32
556.14	605.84	557.22	560.22	558.13	535.74	559.26	538.03
556.17	536.24	557.23	538.21	558.14	527.85	559.27	543.03
556.18	544.72	557.24	592.41	558.15	537.84	559.29	574.32
556.19	526.51	557.26	577.81	558.16	535.87	559.31	535.06
556.22	540.32	557.28	604.74	558.17	544.19	559.32	551.07

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
559.33	584.08	560.39	606.01	561.44	605.71	562.49	575.59
559.34	538.56	560.40	586.86	561.45	604.60	562.50	533.51
559.35	538.64	560.41	549.35	561.46	537.29	562.51	563.03
559.37	543.00	560.43	574.01	561.47	552.46	562.52	615.01
559.38	531.13	560.45	543.41	561.48	574.84	562.55	589.63
559.39	535.22	560.46	541.87	561.56	608.25	562.56	541.87
559.40	538.79	560.47	617.47	561.57	593.23	562.57	594.68
559.44	611.15	560.48	630.71	561.59	606.49	562.58	531.51
559.49	538.31	560.49	534.94	561.60	538.28	562.60	554.28
559.50	578.29	560.50	658.19	561.62	535.73	562.61	618.82
559.51	631.66	560.53	557.38	561.63	577.05	562.62	544.35
559.52	533.92	560.54	539.30	561.64	592.98	562.65	550.58
559.53	538.06	560.55	605.00	561.65	540.56	562.66	574.66
559.55	606.04	560.56	538.14	561.66	552.62	562.67	568.94
559.56	538.83	560.57	604.97	561.70	548.43	562.70	576.50
559.61	547.50	560.59	528.96	561.76	580.74	562.73	544.92
559.63	537.15	560.60	569.42	561.77	606.92	562.74	607.19
559.64	579.42	560.62	533.98	561.80	547.52	562.76	605.58
559.66	581.52	560.70	547.88	561.81	546.02	562.78	559.01
559.72	572.62	560.72	515.89	561.82	566.77	562.79	606.66
559.75	538.76	560.73	537.97	561.85	559.37	562.82	605.14
559.78	538.80	560.74	539.62	561.86	565.74	562.84	587.53
559.79	545.21	560.76	537.17	561.87	547.17	562.85	558.81
559.81	591.49	560.77	540.64	561.88	581.20	562.87	592.92
559.82	531.14	560.81	557.41	561.90	563.21	562.89	536.93
559.83	617.16	560.83	592.56	561.91	592.67	562.90	631.01
559.84	591.89	560.84	547.73	561.93	552.51	562.92	580.07
559.85	590.16	560.85	592.27	561.95	532.93	562.99	537.28
559.86	592.45	560.86	526.37	561.96	624.21	563.00	549.76
559.87	607.10	560.87	540.78	561.97	603.94	563.01	542.08
559.89	592.77	560.89	535.07	561.98	540.04	563.03	608.31
559.91	532.20	560.90	566.64	561.99	535.47	563.04	598.53
559.93	566.33	560.92	539.18	562.01	548.27	563.05	631.92
559.94	535.93	560.93	538.01	562.04	548.30	563.06	584.83
559.95	631.36	560.95	538.38	562.07	542.22	563.07	581.97
559.96	657.45	560.97	524.45	562.08	614.66	563.09	596.99
559.98	546.85	560.98	541.41	562.09	554.27	563.10	549.16
559.99	578.64	560.99	570.45	562.10	591.85	563.11	568.70
560.04	582.49	561.02	539.09	562.12	548.77	563.12	542.31
560.05	594.49	561.03	532.64	562.13	617.26	563.13	548.24
560.06	579.95	561.07	561.81	562.17	621.24	563.15	586.09
560.08	657.58	561.08	544.64	562.19	544.85	563.16	587.49
560.09	580.10	561.12	606.13	562.21	590.75	563.18	622.01
560.11	551.29	561.14	605.89	562.22	631.67	563.21	631.43
560.12	537.94	561.15	592.62	562.23	599.25	563.25	552.40
560.16	540.76	561.16	530.96	562.24	532.26	563.26	540.37
560.17	536.73	561.18	576.06	562.25	539.69	563.28	588.22
560.18	560.19	561.22	568.30	562.27	542.14	563.29	540.07
560.20	603.78	561.23	594.06	562.28	604.76	563.31	537.14
560.21	625.33	561.24	607.16	562.32	538.28	563.32	577.37
560.23	537.96	561.27	541.39	562.33	550.68	563.33	606.61
560.24	536.74	561.28	536.91	562.34	544.87	563.35	592.21
560.25	593.05	561.30	548.27	562.35	539.40	563.36	572.35
560.28	571.81	561.32	538.44	562.36	657.57	563.37	567.02
560.29	544.14	561.33	543.57	562.37	604.60	563.38	537.32
560.30	581.18	561.34	535.68	562.38	543.93	563.39	537.58
560.32	577.15	561.36	538.94	562.39	592.33	563.40	545.70
560.34	539.11	561.38	631.18	562.43	537.63	563.41	539.83
560.35	535.49	561.40	539.22	562.45	605.97	563.45	562.91
560.38	539.77	561.42	581.52	562.46	657.25	563.47	558.73

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
563.48	576.60	564.36	582.87	565.26	536.27	566.13	546.48
563.50	658.10	564.37	538.99	565.28	543.96	566.14	540.33
563.51	580.90	564.38	538.44	565.29	538.96	566.17	558.35
563.52	558.83	564.40	592.43	565.31	540.94	566.19	564.31
563.53	539.59	564.42	592.43	565.34	536.89	566.20	605.87
563.55	530.15	564.44	538.51	565.35	577.58	566.21	592.99
563.56	656.55	564.46	540.06	565.36	543.42	566.24	575.45
563.60	573.88	564.47	553.35	565.37	541.00	566.26	657.77
563.63	581.06	564.50	538.42	565.38	572.89	566.28	538.66
563.65	566.19	564.51	608.00	565.40	600.74	566.29	606.70
563.66	603.81	564.53	656.46	565.41	538.55	566.31	549.81
563.67	606.63	564.54	534.62	565.42	584.07	566.35	592.32
563.69	548.95	564.55	529.82	565.44	540.51	566.37	593.09
563.70	583.72	564.56	605.83	565.47	539.56	566.41	633.37
563.71	592.82	564.57	631.36	565.49	545.52	566.47	555.91
563.73	576.63	564.59	581.51	565.51	579.51	566.51	658.47
563.74	530.52	564.60	588.62	565.52	623.31	566.53	537.64
563.76	540.26	564.61	573.34	565.53	587.49	566.54	537.74
563.77	618.69	564.64	541.15	565.54	544.90	566.55	571.60
563.78	540.50	564.66	608.03	565.55	540.89	566.56	584.81
563.79	565.61	564.68	592.56	565.56	581.77	566.59	541.28
563.80	540.00	564.69	539.06	565.58	538.71	566.60	550.76
563.81	538.87	564.70	621.87	565.61	540.59	566.62	544.16
563.82	543.74	564.71	539.06	565.62	540.14	566.63	607.95
563.83	544.69	564.72	555.50	565.63	539.72	566.64	624.44
563.84	534.16	564.74	584.41	565.65	536.83	566.66	542.98
563.85	530.83	564.75	534.70	565.66	613.13	566.70	632.68
563.86	592.82	564.77	533.60	565.67	540.18	566.71	625.72
563.87	632.14	564.78	540.64	565.69	539.30	566.72	607.63
563.89	538.52	564.80	606.87	565.70	592.28	566.76	541.51
563.91	538.19	564.81	549.53	565.71	585.48	566.79	592.47
563.92	530.59	564.82	580.13	565.72	604.67	566.80	575.76
563.93	604.66	564.83	543.72	565.73	533.83	566.82	548.96
563.94	534.70	564.84	551.89	565.74	547.99	566.83	659.22
563.95	575.15	564.85	593.03	565.76	552.95	566.84	574.11
563.96	536.34	564.86	542.62	565.77	572.43	566.85	541.58
563.98	549.81	564.89	540.89	565.78	606.21	566.88	531.98
563.99	540.08	564.90	605.89	565.79	521.49	566.89	572.14
564.01	543.57	564.96	538.84	565.80	553.16	566.90	606.11
564.02	560.56	564.97	550.27	565.81	542.14	566.91	546.29
564.04	537.80	564.98	549.77	565.82	579.17	566.92	539.32
564.05	536.33	564.99	507.44	565.83	586.70	566.95	627.79
564.08	548.73	565.01	540.37	565.84	539.50	566.96	572.26
564.09	526.41	565.02	592.76	565.90	592.49	566.98	583.10
564.10	534.76	565.03	541.29	565.92	549.48	566.99	549.17
564.13	577.09	565.04	592.73	565.93	599.00	567.00	551.42
564.14	597.53	565.06	537.51	565.94	583.61	567.01	545.59
564.15	541.74	565.07	603.93	565.96	607.56	567.04	567.81
564.18	534.51	565.08	606.27	565.97	550.26	567.05	658.49
564.19	527.97	565.10	537.92	565.98	529.33	567.06	592.60
564.20	564.34	565.11	546.58	565.99	540.33	567.07	552.17
564.21	535.20	565.12	581.26	566.01	536.66	567.08	628.19
564.22	540.58	565.13	540.88	566.04	537.21	567.09	590.90
564.24	571.15	565.14	563.95	566.05	540.55	567.11	632.42
564.26	565.08	565.18	613.45	566.06	538.95	567.12	548.64
564.28	543.45	565.19	595.91	566.07	546.98	567.14	539.01
564.29	539.27	565.20	545.11	566.08	540.39	567.15	549.74
564.30	562.84	565.22	576.37	566.09	574.84	567.18	604.56
564.33	535.38	565.24	559.91	566.10	578.59	567.19	537.50
564.35	547.31	565.25	562.40	566.11	538.83	567.20	563.36

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
567.23	630.11	568.26	624.57	569.20	531.58	570.25	607.48
567.24	582.10	568.27	549.35	569.21	582.86	570.31	538.36
567.27	547.70	568.30	541.57	569.22	534.12	570.34	536.59
567.28	541.78	568.31	605.28	569.24	590.02	570.35	540.14
567.31	552.74	568.33	573.94	569.27	550.36	570.36	607.39
567.34	534.12	568.34	540.80	569.30	539.55	570.39	609.06
567.38	541.51	568.35	541.57	569.32	529.96	570.40	549.60
567.39	542.24	568.38	615.85	569.33	548.08	570.41	540.17
567.40	547.87	568.39	612.63	569.37	623.61	570.43	533.35
567.41	630.93	568.40	658.03	569.39	531.62	570.47	552.85
567.42	537.37	568.41	543.24	569.40	550.83	570.49	550.62
567.43	592.21	568.42	592.83	569.41	552.38	570.51	606.28
567.45	575.09	568.43	544.83	569.43	550.41	570.52	572.41
567.47	548.04	568.45	577.73	569.45	541.35	570.53	538.47
567.48	540.98	568.46	559.10	569.49	547.08	570.55	562.47
567.50	534.68	568.47	545.24	569.50	535.71	570.56	628.98
567.53	537.71	568.49	563.08	569.52	592.54	570.60	545.20
567.54	581.54	568.50	542.87	569.53	534.70	570.62	541.36
567.56	540.37	568.52	592.60	569.55	593.50	570.63	533.41
567.57	537.53	568.53	546.77	569.56	538.33	570.64	542.11
567.58	546.38	568.55	631.08	569.57	561.35	570.66	583.61
567.59	592.52	568.56	631.17	569.58	583.70	570.67	537.40
567.61	533.50	568.58	542.81	569.61	526.07	570.68	630.10
567.65	613.71	568.60	592.86	569.63	620.07	570.69	553.02
567.66	592.69	568.61	605.46	569.64	608.60	570.70	592.90
567.67	539.37	568.62	543.15	569.65	553.35	570.71	593.11
567.68	606.51	568.63	627.04	569.66	551.77	570.72	530.16
567.69	558.40	568.64	658.87	569.67	548.41	570.74	456.40
567.70	606.65	568.66	582.20	569.71	657.11	570.75	540.18
567.71	631.31	568.67	587.83	569.72	610.89	570.77	547.18
567.72	542.17	568.68	547.05	569.73	561.57	570.78	542.53
567.73	543.09	568.69	578.77	569.74	545.48	570.82	592.13
567.74	575.99	568.71	542.43	569.76	594.52	570.83	540.75
567.77	587.47	568.72	561.24	569.77	566.81	570.84	580.65
567.78	522.85	568.75	606.45	569.81	632.08	570.85	536.96
567.79	606.57	568.76	537.56	569.82	547.43	570.88	608.14
567.81	540.97	568.78	542.59	569.85	537.84	570.89	584.51
567.82	584.53	568.81	546.97	569.86	556.41	570.91	562.47
567.83	659.81	568.83	625.83	569.87	534.46	570.94	577.56
567.85	537.37	568.84	578.55	569.88	608.18	570.95	540.63
567.86	550.08	568.85	595.70	569.90	563.59	570.96	554.45
567.87	548.55	568.86	579.20	569.92	555.03	570.97	541.54
567.91	582.78	568.87	546.52	569.93	541.51	570.98	573.85
567.92	619.37	568.88	537.24	569.94	535.83	570.99	581.21
567.93	574.75	568.90	544.58	569.95	585.35	571.00	608.33
567.95	598.83	568.93	659.95	569.98	581.40	571.01	551.21
567.97	540.22	568.95	546.76	570.02	546.87	571.03	580.33
567.98	540.83	568.96	548.56	570.03	542.54	571.04	577.46
567.99	537.91	568.97	581.75	570.04	628.54	571.06	542.82
568.08	584.16	569.00	570.55	570.05	541.26	571.08	596.70
568.11	632.00	569.02	536.63	570.06	608.64	571.09	538.45
568.13	541.50	569.04	552.08	570.09	542.40	571.10	567.22
568.14	549.91	569.06	561.66	570.10	603.09	571.11	593.05
568.16	541.56	569.08	536.53	570.12	542.15	571.12	606.73
568.17	629.93	569.09	592.95	570.13	541.51	571.14	545.10
568.19	604.35	569.10	604.27	570.14	539.19	571.15	592.99
568.21	578.76	569.12	544.24	570.16	534.52	571.16	632.68
568.22	561.35	569.13	538.54	570.17	553.96	571.21	538.49
568.24	657.21	569.14	580.11	570.20	622.25	571.22	542.14
568.25	531.03	569.18	538.51	570.22	540.78	571.24	536.95



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
571.27	553.11	572.38	600.43	573.41	573.38	574.45	535.09
571.28	545.08	572.39	563.19	573.42	554.11	574.46	608.15
571.29	658.38	572.41	539.68	573.44	547.53	574.48	543.32
571.30	607.77	572.43	587.04	573.45	543.55	574.50	542.48
571.31	606.27	572.44	616.13	573.46	571.67	574.51	537.06
571.33	626.13	572.48	633.71	573.47	541.87	574.52	541.59
571.35	559.87	572.49	538.05	573.48	540.37	574.53	600.62
571.37	583.14	572.50	550.63	573.51	570.27	574.54	541.27
571.41	553.92	572.51	581.52	573.52	576.89	574.58	659.05
571.48	627.39	572.52	606.61	573.53	546.82	574.60	543.73
571.49	587.89	572.53	547.00	573.54	542.67	574.61	609.39
571.50	540.37	572.54	550.91	573.57	594.42	574.62	540.15
571.51	540.91	572.55	548.34	573.59	553.28	574.64	589.58
571.53	543.20	572.56	538.53	573.60	560.16	574.67	630.75
571.56	575.50	572.60	606.83	573.63	541.81	574.69	545.93
571.57	553.77	572.61	584.39	573.68	557.35	574.71	589.39
571.59	607.09	572.62	606.57	573.71	584.11	574.75	555.19
571.60	533.70	572.64	590.86	573.72	540.53	574.76	575.82
571.61	554.86	572.66	543.48	573.75	658.42	574.77	539.17
571.62	543.51	572.68	540.19	573.76	542.85	574.78	631.85
571.63	541.25	572.69	543.16	573.80	582.97	574.79	564.89
571.66	581.45	572.70	546.69	573.82	611.04	574.81	609.23
571.67	632.66	572.72	589.73	573.83	544.00	574.83	552.03
571.68	543.93	572.74	593.73	573.88	658.00	574.84	584.24
571.69	541.72	572.76	632.28	573.90	554.49	574.86	564.12
571.70	541.11	572.77	542.75	573.91	537.34	574.87	607.31
571.74	553.62	572.78	530.20	573.92	608.86	574.89	570.80
571.76	566.02	572.79	657.63	573.95	546.38	574.91	554.80
571.77	534.04	572.82	543.77	573.96	631.26	574.92	543.86
571.80	593.15	572.83	536.37	573.97	593.27	574.93	610.85
571.81	591.89	572.84	556.83	573.98	608.63	574.97	541.96
571.83	559.25	572.88	540.65	574.00	588.33	574.98	590.98
571.84	587.04	572.90	573.29	574.03	543.74	574.99	605.68
571.87	540.75	572.92	606.65	574.04	584.32	575.00	605.87
571.88	540.47	572.93	567.80	574.05	607.23	575.04	542.76
571.89	577.61	572.94	540.56	574.06	605.61	575.07	633.66
571.90	632.71	572.96	571.21	574.07	538.45	575.08	542.81
571.94	546.68	572.98	538.74	574.08	554.69	575.11	592.91
571.95	558.17	572.99	620.60	574.10	543.09	575.14	543.03
571.97	539.94	573.00	580.35	574.11	606.12	575.15	535.59
571.99	586.77	573.01	541.79	574.13	556.26	575.16	620.13
572.01	632.47	573.02	574.24	574.15	627.38	575.17	544.25
572.02	564.51	573.03	538.98	574.16	578.51	575.18	541.96
572.08	543.78	573.04	587.72	574.18	540.85	575.19	543.40
572.11	566.73	573.06	607.17	574.19	610.52	575.20	593.28
572.12	586.33	573.08	545.96	574.20	657.58	575.22	608.67
572.16	549.79	573.12	589.65	574.21	627.08	575.24	540.08
572.17	565.22	573.14	546.16	574.22	631.95	575.25	593.06
572.19	569.48	573.16	543.41	574.24	559.19	575.26	583.33
572.21	561.54	573.20	585.48	574.25	603.97	575.29	398.65
572.22	593.05	573.21	543.34	574.29	548.77	575.32	592.71
572.23	555.33	573.22	542.60	574.33	533.66	575.36	656.98
572.26	593.87	573.24	547.36	574.34	543.85	575.37	632.92
572.27	544.54	573.28	541.53	574.35	549.86	575.40	536.66
572.28	538.89	573.30	548.49	574.36	586.51	575.43	536.83
572.29	526.16	573.31	600.89	574.38	528.98	575.44	541.75
572.30	555.36	573.32	590.66	574.40	574.03	575.45	593.14
572.31	570.70	573.33	545.69	574.41	549.86	575.47	557.16
572.36	538.20	573.38	627.57	574.42	585.68	575.48	538.63
572.37	580.26	573.39	535.57	574.44	560.11	575.49	541.17

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
575.51	537.33	576.51	633.20	577.73	591.01	578.76	606.52
575.54	622.20	576.53	587.67	577.75	593.38	578.78	559.58
575.55	593.35	576.54	551.70	577.78	541.16	578.79	550.58
575.57	549.78	576.58	539.00	577.79	575.51	578.80	533.49
575.58	549.27	576.61	570.16	577.80	538.21	578.81	558.41
575.61	625.61	576.62	537.14	577.81	559.62	578.82	535.83
575.62	588.90	576.64	588.73	577.82	349.15	578.83	618.76
575.63	540.49	576.70	598.96	577.85	541.84	578.84	541.81
575.64	607.21	576.71	544.96	577.89	544.92	578.87	577.66
575.65	560.23	576.74	555.69	577.93	594.08	578.88	608.75
575.66	539.22	576.76	554.43	577.94	560.87	578.89	588.48
575.67	540.23	576.79	593.27	577.96	542.72	578.90	586.61
575.68	543.25	576.80	588.11	577.98	599.29	578.91	622.67
575.69	541.86	576.81	596.75	578.03	588.15	578.93	592.09
575.70	577.96	576.84	659.34	578.04	544.15	578.94	614.19
575.71	588.04	576.85	608.59	578.05	592.58	578.95	540.66
575.72	556.76	576.91	525.77	578.06	556.07	578.96	540.44
575.73	560.00	576.92	578.30	578.07	592.97	578.98	558.42
575.74	584.00	576.95	550.74	578.08	582.91	579.02	608.07
575.76	544.38	576.96	536.87	578.09	559.10	579.03	546.55
575.77	543.97	576.97	610.50	578.10	557.13	579.05	556.25
575.78	543.12	577.00	579.32	578.11	574.49	579.06	539.95
575.80	543.99	577.01	556.54	578.12	619.41	579.08	594.47
575.81	540.85	577.03	602.71	578.13	545.75	579.09	608.83
575.82	588.06	577.04	567.82	578.14	598.89	579.10	558.31
575.83	474.58	577.09	542.19	578.15	569.70	579.13	586.58
575.84	536.27	577.10	559.14	578.17	558.79	579.14	598.84
575.85	543.67	577.11	620.02	578.20	591.51	579.15	548.32
575.86	565.34	577.14	539.07	578.22	592.09	579.16	607.11
575.88	611.23	577.15	547.01	578.23	535.99	579.17	545.21
575.89	592.95	577.17	578.55	578.24	592.89	579.20	606.76
575.90	592.75	577.18	536.34	578.28	552.04	579.21	633.00
575.92	549.41	577.19	534.51	578.29	557.72	579.22	549.28
575.93	538.52	577.21	582.57	578.32	604.80	579.25	543.03
575.94	548.24	577.22	565.54	578.33	541.35	579.26	538.02
575.95	539.94	577.23	538.16	578.34	608.24	579.29	607.46
575.97	590.18	577.27	631.92	578.36	549.97	579.30	581.40
576.03	592.90	577.29	544.24	578.37	517.54	579.32	543.41
576.06	565.54	577.30	585.98	578.41	541.11	579.34	556.25
576.08	631.87	577.35	552.80	578.44	592.52	579.36	538.52
576.09	556.36	577.39	628.74	578.46	593.93	579.38	564.17
576.11	617.02	577.41	556.44	578.47	543.21	579.41	566.43
576.14	597.40	577.42	536.49	578.48	546.71	579.42	543.01
576.16	585.96	577.43	591.09	578.50	579.95	579.43	539.56
576.17	547.53	577.45	593.42	578.51	585.87	579.44	544.33
576.18	593.40	577.46	544.07	578.52	544.65	579.48	594.20
576.19	599.20	577.47	593.45	578.53	539.01	579.49	554.73
576.22	627.93	577.49	558.27	578.54	545.16	579.50	635.50
576.23	598.05	577.50	554.59	578.56	588.81	579.52	543.71
576.25	531.85	577.51	658.60	578.57	659.48	579.53	562.21
576.30	585.96	577.52	634.47	578.59	551.21	579.56	637.89
576.33	544.77	577.53	540.91	578.60	591.38	579.58	532.86
576.39	607.00	577.56	607.44	578.61	584.98	579.59	559.09
576.40	607.86	577.57	550.73	578.63	537.38	579.60	549.39
576.41	583.25	577.58	605.98	578.64	596.13	579.61	548.84
576.42	581.75	577.61	549.83	578.65	593.09	579.66	553.77
576.44	587.49	577.62	547.27	578.67	607.78	579.67	546.94
576.45	607.16	577.65	541.71	578.68	636.92	579.69	559.20
576.46	563.66	577.69	536.26	578.70	567.51	579.71	633.11
576.49	607.84	577.72	551.20	578.75	591.57	579.74	659.40

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
579.78	559.92	580.82	657.80	581.93	560.47	583.06	542.56
579.79	551.87	580.88	536.82	581.94	592.22	583.07	607.63
579.80	567.15	580.89	598.82	581.97	633.85	583.08	593.83
579.81	574.92	580.90	572.25	581.98	556.75	583.09	552.46
579.82	575.08	580.91	593.65	582.00	565.64	583.10	606.92
579.84	555.18	580.93	545.91	582.01	536.32	583.11	557.32
579.85	596.95	580.94	542.83	582.04	589.50	583.12	633.32
579.87	571.36	580.96	594.81	582.06	607.76	583.13	547.41
579.89	530.46	580.99	559.19	582.07	658.63	583.14	541.84
579.91	593.51	581.00	660.51	582.08	575.77	583.15	540.80
579.92	541.27	581.01	593.41	582.09	539.11	583.16	545.02
579.94	591.30	581.03	549.49	582.10	546.62	583.21	550.92
579.95	541.24	581.06	567.96	582.13	555.68	583.24	546.80
579.96	588.43	581.07	571.61	582.14	620.56	583.26	546.00
579.97	541.31	581.08	657.26	582.15	606.66	583.27	592.98
579.98	545.47	581.10	658.53	582.19	546.22	583.30	546.62
579.99	547.05	581.15	593.65	582.20	594.09	583.32	594.33
580.00	543.00	581.17	540.37	582.22	558.90	583.33	536.83
580.01	585.10	581.19	554.88	582.23	593.89	583.34	582.12
580.02	590.67	581.21	608.97	582.26	631.82	583.37	659.76
580.03	589.47	581.22	557.48	582.27	554.44	583.38	543.82
580.04	534.84	581.23	633.20	582.32	538.17	583.44	540.35
580.05	556.84	581.24	589.73	582.36	548.95	583.45	589.83
580.06	581.91	581.26	546.14	582.37	535.13	583.46	590.62
580.07	543.23	581.27	659.66	582.38	578.26	583.47	587.71
580.08	588.58	581.28	609.18	582.39	588.61	583.48	636.69
580.11	537.82	581.30	607.86	582.44	543.41	583.50	577.32
580.12	633.28	581.32	593.63	582.46	546.87	583.51	546.88
580.13	592.88	581.38	606.51	582.47	603.62	583.53	561.55
580.14	586.62	581.40	660.21	582.48	544.62	583.54	546.27
580.15	560.65	581.42	552.62	582.49	559.76	583.55	607.79
580.16	565.15	581.45	545.35	582.50	546.81	583.59	549.40
580.20	568.70	581.46	595.34	582.51	543.84	583.60	593.42
580.22	580.78	581.49	544.16	582.52	575.22	583.62	549.44
580.23	558.81	581.50	586.71	582.54	633.44	583.65	593.08
580.24	533.59	581.51	542.27	582.55	582.91	583.66	560.99
580.32	539.29	581.52	588.92	582.56	572.44	583.67	591.75
580.36	590.57	581.53	592.48	582.58	589.56	583.68	590.31
580.38	544.93	581.54	536.56	582.60	587.28	583.70	590.51
580.40	593.51	581.55	594.18	582.62	608.83	583.71	577.93
580.44	548.88	581.56	543.40	582.64	583.58	583.72	556.35
580.45	550.72	581.57	560.13	582.65	634.43	583.76	608.92
580.46	545.11	581.62	605.68	582.67	594.26	583.78	608.46
580.49	545.24	581.64	600.96	582.68	587.14	583.79	589.41
580.51	545.74	581.65	593.78	582.72	536.35	583.81	540.36
580.54	573.95	581.66	596.12	582.74	659.88	583.87	545.15
580.56	547.24	581.69	557.98	582.75	539.34	583.88	561.61
580.59	589.52	581.71	555.54	582.76	583.28	583.91	543.65
580.61	608.04	581.72	545.94	582.77	543.52	583.92	579.94
580.62	557.65	581.73	594.82	582.78	595.79	583.93	581.07
580.63	550.12	581.74	558.78	582.84	570.65	583.94	557.35
580.64	556.06	581.76	555.84	582.86	539.72	583.95	596.09
580.66	546.91	581.77	607.11	582.87	658.82	584.01	609.27
580.67	631.80	581.78	550.43	582.89	608.68	584.03	593.59
580.68	590.41	581.80	593.74	582.90	550.66	584.04	633.52
580.70	545.71	581.82	550.63	582.91	633.48	584.05	546.76
580.71	633.10	581.83	634.91	582.95	554.50	584.07	551.78
580.72	595.27	581.85	608.10	582.96	600.61	584.08	593.67
580.77	544.28	581.86	559.81	583.02	537.15	584.11	543.74
580.81	544.25	581.87	595.70	583.05	546.94	584.12	637.16

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
584.13	597.94	585.27	562.09	586.36	659.96	587.72	564.76
584.15	539.01	585.28	547.07	586.38	551.59	587.73	548.19
584.16	580.73	585.32	542.54	586.40	568.28	587.74	608.72
584.18	637.92	585.33	565.32	586.53	632.19	587.75	548.08
584.19	560.35	585.34	543.42	586.54	544.30	587.77	635.42
584.20	589.36	585.36	541.49	586.55	634.23	587.81	608.35
584.22	543.56	585.39	539.04	586.58	633.17	587.82	550.33
584.23	540.06	585.40	570.73	586.59	538.82	587.83	562.96
584.25	494.52	585.43	601.51	586.62	608.16	587.84	563.68
584.26	534.75	585.45	565.07	586.66	591.89	587.89	547.98
584.28	585.28	585.46	633.10	586.68	562.85	587.90	594.58
584.34	628.12	585.48	563.39	586.70	641.41	587.91	380.06
584.35	551.19	585.51	545.91	586.71	547.03	587.93	603.94
584.42	633.41	585.54	607.77	586.73	609.98	587.95	584.49
584.44	658.25	585.57	546.97	586.74	587.83	587.97	626.21
584.45	633.30	585.60	540.12	586.76	580.44	588.00	632.03
584.46	541.21	585.61	603.74	586.77	633.53	588.04	571.72
584.48	564.48	585.63	542.18	586.81	593.93	588.05	659.02
584.51	536.23	585.64	615.15	586.82	589.39	588.07	546.25
584.54	596.53	585.65	558.80	586.85	618.36	588.08	547.65
584.55	639.49	585.67	590.19	586.87	541.43	588.09	548.33
584.56	546.31	585.68	594.58	586.88	593.61	588.10	608.59
584.58	607.66	585.72	635.63	586.89	543.87	588.11	551.41
584.59	543.66	585.73	535.43	586.90	625.92	588.13	609.50
584.60	537.62	585.74	546.53	586.91	548.78	588.14	547.68
584.64	593.98	585.77	609.23	586.92	562.87	588.15	545.86
584.65	590.20	585.81	590.46	586.94	565.21	588.17	639.06
584.67	633.50	585.83	576.19	586.95	571.76	588.18	593.13
584.68	593.90	585.84	547.12	586.97	608.48	588.20	502.26
584.69	633.55	585.85	609.35	587.01	601.42	588.21	573.64
584.72	605.28	585.88	590.12	587.02	603.39	588.22	552.21
584.74	591.33	585.90	569.70	587.03	566.98	588.23	660.75
584.75	657.18	585.92	543.83	587.08	546.84	588.25	569.65
584.78	611.88	585.95	627.99	587.12	583.46	588.27	609.05
584.79	600.81	585.96	570.22	587.13	545.03	588.28	608.43
584.81	556.47	585.97	594.59	587.17	639.97	588.29	622.12
584.82	541.58	585.98	540.32	587.21	563.70	588.30	571.67
584.83	547.38	586.00	590.61	587.22	589.23	588.31	609.29
584.84	610.03	586.01	545.14	587.23	591.11	588.32	590.06
584.85	542.13	586.02	565.74	587.24	551.36	588.33	594.63
584.86	542.40	586.03	593.46	587.28	607.64	588.34	591.32
584.90	624.58	586.04	593.58	587.32	596.20	588.35	593.17
584.92	552.85	586.05	550.26	587.35	566.15	588.36	592.71
584.94	636.17	586.07	607.03	587.38	631.34	588.39	593.87
584.96	631.72	586.08	589.10	587.39	549.70	588.40	593.63
584.97	610.04	586.09	545.31	587.44	617.99	588.41	547.90
584.99	595.52	586.11	636.87	587.48	563.86	588.42	591.74
585.01	590.70	586.12	576.67	587.49	599.63	588.44	586.97
585.04	595.46	586.13	598.39	587.51	574.46	588.45	609.51
585.06	639.67	586.14	559.96	587.52	608.89	588.46	547.36
585.08	634.25	586.17	599.56	587.53	548.10	588.48	547.58
585.09	543.26	586.19	609.68	587.54	609.57	588.50	607.45
585.11	546.41	586.20	634.56	587.55	593.61	588.55	602.96
585.12	594.21	586.22	555.14	587.60	661.07	588.57	565.84
585.13	593.79	586.23	589.70	587.61	599.88	588.59	583.40
585.14	588.43	586.25	574.63	587.62	550.69	588.63	593.82
585.20	540.86	586.27	610.81	587.63	565.28	588.64	565.42
585.22	544.92	586.30	586.09	587.66	608.15	588.66	593.77
585.23	551.27	586.33	588.22	587.68	564.39	588.67	592.39
585.24	636.77	586.35	633.71	587.71	642.61	588.69	633.40

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
588.71	593.92	589.85	608.63	590.91	567.03	592.16	548.02
588.72	540.00	589.86	417.67	590.92	586.45	592.17	547.71
588.76	594.68	589.88	595.47	590.94	545.92	592.19	556.32
588.77	599.50	589.89	600.01	590.95	541.28	592.23	568.40
588.78	543.49	589.91	606.11	590.96	607.25	592.24	599.52
588.79	648.95	589.92	598.58	590.98	543.94	592.25	593.95
588.80	661.03	589.94	608.67	591.00	605.35	592.29	578.57
588.81	552.37	589.97	624.94	591.01	548.29	592.30	568.10
588.84	554.75	589.98	549.39	591.02	610.32	592.31	596.84
588.86	609.28	590.02	601.30	591.03	539.66	592.32	562.19
588.90	633.19	590.03	572.48	591.04	544.27	592.33	634.86
588.91	593.66	590.05	602.78	591.05	548.98	592.36	547.70
588.93	607.58	590.06	594.49	591.07	558.23	592.40	545.41
588.96	573.43	590.09	606.95	591.08	619.49	592.41	592.00
588.97	548.28	590.10	610.21	591.09	580.95	592.42	575.15
588.99	608.10	590.11	549.20	591.14	568.99	592.45	560.59
589.01	550.06	590.13	580.61	591.16	563.00	592.48	621.09
589.02	619.86	590.14	548.08	591.17	587.71	592.49	546.81
589.04	552.06	590.16	599.16	591.21	548.85	592.50	610.81
589.05	642.01	590.20	457.27	591.22	606.58	592.51	568.66
589.06	562.54	590.21	541.82	591.23	650.42	592.54	549.68
589.09	592.55	590.22	541.04	591.24	542.18	592.56	660.36
589.11	543.38	590.23	572.68	591.26	551.30	592.57	544.34
589.12	563.50	590.25	546.37	591.32	624.94	592.59	660.83
589.15	633.98	590.26	556.20	591.35	566.20	592.60	563.51
589.16	630.96	590.27	593.39	591.37	633.13	592.61	632.70
589.20	580.34	590.29	589.55	591.38	644.71	592.65	608.56
589.21	606.61	590.30	596.93	591.39	594.26	592.70	602.41
589.23	633.69	590.31	546.88	591.41	577.98	592.71	538.26
589.25	637.21	590.34	562.29	591.44	559.89	592.72	548.54
589.30	544.27	590.36	594.03	591.46	608.63	592.74	601.57
589.31	594.73	590.37	606.55	591.51	639.30	592.75	594.92
589.33	659.63	590.38	581.20	591.52	608.42	592.76	573.81
589.34	596.76	590.39	635.40	591.55	570.01	592.78	569.58
589.37	549.34	590.40	643.83	591.58	609.24	592.81	564.11
589.38	562.00	590.41	607.65	591.60	590.40	592.83	543.77
589.40	610.97	590.43	596.21	591.63	598.04	592.84	447.23
589.41	633.92	590.46	628.46	591.64	609.41	592.85	564.02
589.44	588.10	590.51	546.53	591.66	609.12	592.87	643.31
589.45	600.55	590.52	607.35	591.68	623.48	592.89	562.89
589.47	583.77	590.53	557.25	591.69	641.76	592.93	553.84
589.49	565.30	590.57	548.88	591.70	553.22	592.95	550.15
589.52	562.48	590.59	599.77	591.77	561.00	592.97	576.97
589.55	632.95	590.60	594.47	591.83	601.63	592.98	606.37
589.56	551.93	590.62	584.94	591.86	545.84	593.00	594.07
589.57	563.97	590.66	574.58	591.88	615.39	593.02	546.86
589.63	639.73	590.68	620.96	591.90	569.50	593.03	570.51
589.64	609.11	590.69	637.08	591.91	554.57	593.04	549.37
589.65	594.06	590.70	598.36	591.94	607.33	593.05	609.19
589.67	593.26	590.71	560.78	591.95	594.02	593.06	548.75
589.69	617.75	590.72	594.22	591.96	544.23	593.07	546.75
589.70	660.20	590.73	599.96	592.01	609.78	593.10	562.43
589.74	594.25	590.74	590.97	592.03	594.84	593.11	616.09
589.75	600.81	590.75	564.79	592.04	550.48	593.14	593.90
589.78	659.67	590.80	607.87	592.05	634.06	593.16	553.40
589.79	637.92	590.82	584.22	592.09	609.25	593.18	539.64
589.80	635.14	590.84	614.52	592.11	591.96	593.20	549.68
589.81	633.66	590.85	549.13	592.12	631.95	593.22	637.82
589.82	590.77	590.89	548.61	592.13	607.23	593.24	634.55
589.83	634.49	590.90	593.93	592.14	594.91	593.27	594.27

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
593.28	600.02	594.47	564.57	595.55	659.82	596.65	574.27
593.30	634.25	594.48	635.21	595.57	633.91	596.66	544.74
593.32	621.55	594.51	580.16	595.59	543.33	596.68	594.18
593.34	567.96	594.53	595.05	595.61	607.56	596.71	594.78
593.36	564.55	594.58	593.96	595.64	588.81	596.78	636.46
593.38	616.59	594.60	628.36	595.65	563.64	596.81	661.47
593.39	543.94	594.61	545.66	595.66	603.55	596.86	608.57
593.45	609.08	594.63	508.14	595.67	567.44	596.87	562.43
593.46	569.78	594.64	660.42	595.68	546.66	596.89	550.03
593.49	594.20	594.69	595.29	595.69	593.95	596.90	632.23
593.52	590.75	594.70	591.92	595.70	550.14	596.94	541.58
593.56	550.80	594.71	635.97	595.71	545.25	596.96	587.72
593.57	610.21	594.72	609.32	595.72	545.02	596.99	646.74
593.59	608.27	594.74	564.14	595.73	550.41	597.01	549.17
593.60	600.94	594.76	658.65	595.74	546.08	597.02	565.44
593.61	567.53	594.77	545.71	595.76	653.39	597.03	598.64
593.62	634.20	594.79	607.73	595.77	554.09	597.07	632.05
593.64	593.60	594.80	594.67	595.78	628.93	597.08	602.45
593.65	565.65	594.82	545.80	595.79	592.71	597.09	546.26
593.67	541.93	594.83	553.27	595.80	546.00	597.10	659.52
593.68	557.46	594.84	609.08	595.81	658.58	597.13	652.58
593.69	576.65	594.87	634.89	595.82	575.29	597.15	613.04
593.70	553.20	594.90	545.91	595.85	546.03	597.17	600.57
593.73	592.67	594.92	547.58	595.86	596.23	597.18	575.47
593.75	635.84	594.93	545.71	595.87	610.76	597.22	558.30
593.77	567.14	594.94	633.68	595.88	649.48	597.23	545.25
593.79	552.69	594.96	602.25	595.89	607.18	597.25	606.52
593.80	609.92	594.97	550.73	595.91	562.20	597.28	634.50
593.81	567.48	594.99	546.29	595.92	617.73	597.31	610.93
593.82	549.31	595.01	567.71	595.95	596.83	597.32	572.31
593.83	620.27	595.04	562.31	596.00	617.07	597.35	613.25
593.84	602.63	595.05	581.83	596.01	589.57	597.38	606.49
593.90	547.73	595.07	549.58	596.02	564.49	597.39	604.45
593.93	582.23	595.08	553.14	596.04	569.10	597.40	660.12
593.95	604.19	595.09	634.55	596.10	661.10	597.42	548.80
593.96	546.69	595.10	605.28	596.11	609.51	597.43	632.99
593.97	598.07	595.14	548.70	596.12	585.36	597.44	645.23
594.00	629.63	595.15	609.64	596.14	635.79	597.46	565.89
594.01	598.76	595.16	593.50	596.17	552.98	597.47	548.91
594.02	566.02	595.20	603.71	596.18	602.01	597.48	559.32
594.04	615.52	595.25	570.72	596.20	552.36	597.49	594.40
594.05	562.73	595.27	610.56	596.22	642.64	597.51	546.06
594.08	637.84	595.28	692.11	596.26	547.39	597.54	600.67
594.09	594.81	595.29	571.57	596.33	576.11	597.55	609.57
594.11	636.75	595.30	553.96	596.35	574.63	597.56	544.81
594.14	547.51	595.31	592.67	596.37	596.97	597.57	661.17
594.15	601.37	595.32	660.57	596.38	549.26	597.59	605.91
594.16	555.85	595.35	634.08	596.40	549.83	597.60	620.64
594.18	584.13	595.36	549.01	596.41	547.18	597.61	609.49
594.24	608.28	595.37	554.20	596.42	598.35	597.64	551.26
594.27	561.37	595.40	598.96	596.43	610.68	597.67	570.82
594.32	608.13	595.41	601.42	596.45	566.05	597.68	593.92
594.35	603.59	595.44	607.90	596.46	564.97	597.70	572.64
594.36	614.58	595.45	643.67	596.48	588.27	597.73	558.82
594.37	563.20	595.46	643.74	596.49	594.31	597.76	594.03
594.38	553.04	595.48	548.27	596.50	580.89	597.77	543.06
594.39	549.32	595.50	594.45	596.51	549.40	597.80	643.53
594.42	599.04	595.52	564.75	596.60	609.51	597.83	602.87
594.43	545.29	595.53	568.78	596.63	641.71	597.84	588.85
594.45	549.29	595.54	649.17	596.64	545.51	597.87	546.27

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
597.89	546.77	599.12	544.71	600.23	571.75	601.51	610.15
597.92	658.43	599.13	570.41	600.27	574.23	601.54	561.20
597.93	624.43	599.14	539.77	600.33	598.76	601.55	588.84
597.96	594.51	599.15	614.89	600.36	550.91	601.56	601.73
597.97	551.29	599.17	604.92	600.37	594.50	601.58	567.23
598.00	594.84	599.19	556.19	600.42	605.36	601.59	608.59
598.01	573.32	599.21	606.53	600.43	615.12	601.63	573.61
598.03	562.59	599.22	610.15	600.44	636.15	601.64	651.29
598.04	575.72	599.23	566.72	600.45	568.94	601.65	594.66
598.05	543.95	599.29	564.87	600.46	549.75	601.67	608.20
598.08	579.60	599.30	595.03	600.47	614.80	601.68	617.32
598.09	551.63	599.31	594.57	600.48	571.08	601.70	661.11
598.10	660.56	599.34	604.54	600.51	549.78	601.75	581.40
598.17	600.27	599.37	548.24	600.54	542.04	601.76	557.23
598.18	586.06	599.39	634.47	600.55	599.07	601.77	611.49
598.20	543.94	599.40	550.30	600.56	539.77	601.78	659.35
598.21	599.89	599.41	546.33	600.57	594.46	601.80	637.78
598.26	569.33	599.43	549.75	600.58	582.26	601.83	564.44
598.27	683.56	599.45	553.54	600.59	608.48	601.86	568.30
598.30	594.55	599.46	540.69	600.60	546.76	601.90	551.37
598.35	595.11	599.47	547.15	600.61	548.32	601.93	553.00
598.36	595.13	599.48	604.93	600.62	635.38	601.94	568.20
598.37	661.27	599.49	569.41	600.64	650.02	601.95	642.22
598.40	601.95	599.50	605.65	600.65	545.26	601.98	640.27
598.42	580.40	599.53	545.18	600.66	595.11	601.99	597.29
598.44	660.50	599.56	610.36	600.67	635.44	602.00	600.92
598.45	564.19	599.58	576.92	600.68	595.22	602.01	582.75
598.46	574.74	599.60	657.93	600.70	573.60	602.03	595.79
598.48	584.00	599.61	574.84	600.71	601.25	602.06	633.34
598.52	572.30	599.62	546.60	600.78	570.35	602.07	609.63
598.53	635.23	599.65	594.00	600.79	544.31	602.08	498.24
598.55	642.32	599.68	590.72	600.80	551.47	602.09	594.98
598.57	603.39	599.70	547.98	600.82	545.56	602.10	562.80
598.58	559.98	599.73	546.52	600.85	547.40	602.12	635.46
598.63	594.88	599.74	547.40	600.87	661.63	602.14	603.36
598.64	594.97	599.75	548.63	600.89	594.49	602.20	595.09
598.65	553.15	599.76	547.33	600.90	554.77	602.27	542.26
598.67	550.46	599.77	547.01	600.91	603.15	602.28	563.60
598.68	550.80	599.84	600.83	600.93	605.29	602.29	583.88
598.71	625.22	599.85	600.77	600.96	657.00	602.30	554.63
598.72	629.97	599.90	577.30	601.00	615.56	602.34	551.16
598.73	610.97	599.92	617.31	601.08	612.20	602.35	610.34
598.74	546.32	599.95	570.52	601.13	662.51	602.36	603.82
598.76	543.48	599.96	569.99	601.14	635.17	602.40	647.75
598.77	546.79	599.97	545.07	601.15	600.87	602.42	573.81
598.79	593.88	599.98	603.95	601.18	570.33	602.45	611.17
598.80	595.10	600.00	594.09	601.19	544.46	602.52	617.38
598.81	633.25	600.01	554.70	601.21	640.48	602.55	577.68
598.85	542.80	600.02	610.67	601.25	545.24	602.56	610.59
598.95	578.82	600.03	564.10	601.27	637.07	602.58	599.56
598.98	550.21	600.06	587.86	601.30	635.23	602.61	638.37
598.99	594.78	600.07	595.15	601.31	631.44	602.62	602.31
599.00	639.75	600.08	609.33	601.32	553.72	602.70	635.53
599.04	634.70	600.10	569.32	601.34	542.56	602.71	579.15
599.06	594.45	600.11	573.07	601.36	543.45	602.72	609.89
599.07	607.81	600.13	660.03	601.42	577.90	602.75	601.21
599.08	581.05	600.15	613.75	601.44	547.20	602.76	648.49
599.09	623.92	600.20	553.29	601.46	633.27	602.79	608.39
599.10	544.97	600.21	565.46	601.47	635.08	602.81	606.00
599.11	550.36	600.22	611.90	601.50	662.25	602.82	595.26

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
602.83	608.62	604.12	570.68	605.29	658.71	606.75	619.51
602.84	609.31	604.13	575.82	605.30	659.19	606.76	551.34
602.85	635.32	604.15	595.34	605.32	574.80	606.78	635.01
602.86	600.07	604.16	649.90	605.39	609.70	606.81	604.17
602.88	547.15	604.17	658.59	605.40	637.38	606.82	577.08
602.89	569.00	604.19	635.63	605.44	599.72	606.83	661.82
602.90	594.58	604.21	602.23	605.49	610.12	606.87	550.07
602.92	589.71	604.22	594.52	605.50	548.06	606.88	547.66
602.94	550.82	604.23	634.93	605.55	615.71	606.92	643.34
602.96	649.94	604.26	574.85	605.57	613.60	606.96	548.90
602.97	603.27	604.32	567.39	605.61	582.00	607.00	610.66
603.01	616.26	604.34	613.65	605.63	580.08	607.03	594.92
603.02	548.13	604.36	648.48	605.65	610.48	607.04	648.33
603.03	570.66	604.37	594.38	605.67	550.65	607.07	604.63
603.06	560.42	604.38	648.96	605.72	552.03	607.08	606.53
603.12	555.21	604.41	606.06	605.73	610.16	607.11	580.96
603.13	578.43	604.42	610.07	605.74	652.41	607.13	605.70
603.15	609.26	604.43	584.78	605.77	637.40	607.17	643.92
603.17	607.20	604.47	585.66	605.79	594.84	607.18	594.92
603.18	595.05	604.48	595.29	605.82	650.74	607.19	551.99
603.20	555.23	604.50	573.32	605.86	618.02	607.20	608.58
603.23	570.64	604.51	567.52	605.87	594.65	607.22	636.84
603.25	654.54	604.52	548.49	605.91	567.15	607.23	572.66
603.27	549.15	604.53	586.20	605.92	615.94	607.25	610.61
603.28	594.77	604.55	635.70	605.93	576.71	607.28	571.07
603.30	606.35	604.58	635.32	605.94	579.99	607.29	638.11
603.34	609.94	604.59	649.99	605.97	599.47	607.31	545.76
603.40	635.32	604.60	608.75	606.00	610.39	607.32	591.22
603.41	570.50	604.61	626.85	606.02	594.76	607.35	616.07
603.42	650.52	604.65	607.01	606.03	601.11	607.36	611.27
603.43	577.05	604.66	637.19	606.05	615.64	607.38	596.24
603.44	566.19	604.70	569.30	606.12	631.21	607.42	555.67
603.46	547.21	604.73	652.49	606.15	580.19	607.45	644.93
603.50	594.57	604.74	643.14	606.17	595.11	607.46	632.72
603.52	611.53	604.76	574.23	606.19	648.82	607.54	546.09
603.54	659.73	604.79	600.53	606.20	648.32	607.56	549.61
603.56	600.54	604.80	610.51	606.21	634.34	607.57	594.59
603.58	554.62	604.81	583.40	606.22	555.62	607.58	571.72
603.64	659.52	604.82	554.20	606.24	604.12	607.59	604.10
603.67	599.26	604.89	660.84	606.26	601.16	607.63	553.02
603.68	555.46	604.90	547.92	606.28	573.05	607.65	588.24
603.70	636.36	604.91	611.03	606.29	595.18	607.66	550.21
603.73	594.82	604.95	552.85	606.35	597.23	607.70	611.83
603.76	547.81	604.99	595.23	606.37	567.76	607.71	550.33
603.77	645.85	605.03	552.19	606.39	570.61	607.79	603.17
603.79	609.18	605.04	576.79	606.45	572.58	607.85	594.88
603.81	600.61	605.06	607.06	606.46	610.43	607.86	609.20
603.82	610.72	605.07	595.15	606.49	573.43	607.88	611.45
603.86	592.43	605.09	594.71	606.51	611.76	607.89	558.40
603.87	626.56	605.10	606.27	606.52	609.20	607.92	608.70
603.89	654.65	605.14	575.93	606.54	547.47	607.96	552.01
603.91	545.66	605.15	583.71	606.55	636.43	607.97	636.67
603.94	545.19	605.19	661.54	606.58	548.20	607.99	556.55
603.95	617.17	605.20	572.94	606.60	638.52	608.02	571.97
603.97	635.22	605.21	571.94	606.63	610.74	608.08	554.69
603.98	557.33	605.22	572.21	606.65	652.38	608.13	556.11
603.99	632.68	605.24	611.84	606.68	590.40	608.14	594.57
604.02	600.82	605.25	601.24	606.71	611.16	608.16	609.28
604.06	603.06	605.26	634.56	606.72	598.56	608.19	636.98
604.08	595.33	605.28	636.14	606.73	609.86	608.20	595.38



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
608.22	622.50	609.45	631.03	610.79	582.75	612.39	610.37
608.23	659.56	609.46	653.80	610.80	636.19	612.41	639.79
608.25	523.76	609.48	546.37	610.86	567.97	612.44	635.41
608.26	659.69	609.50	651.60	610.89	609.45	612.45	624.06
608.27	647.55	609.52	636.86	610.90	606.09	612.46	550.86
608.32	659.56	609.55	602.62	610.91	551.92	612.47	556.28
608.33	545.51	609.56	636.47	610.92	607.57	612.48	623.14
608.36	549.70	609.59	542.58	610.93	626.73	612.50	638.79
608.38	556.61	609.64	594.98	610.94	595.66	612.52	623.69
608.41	606.35	609.68	591.91	610.95	578.76	612.55	637.27
608.42	586.24	609.69	543.37	611.00	582.95	612.57	609.82
608.44	339.86	609.71	598.75	611.03	601.94	612.58	639.32
608.50	574.13	609.73	661.77	611.04	595.45	612.59	653.30
608.51	595.04	609.79	636.40	611.07	616.06	612.61	622.18
608.52	568.98	609.86	648.22	611.08	609.50	612.62	638.82
608.53	581.22	609.87	636.62	611.18	598.82	612.64	612.22
608.54	636.05	609.89	609.73	611.19	605.26	612.65	548.28
608.55	608.99	609.93	608.75	611.22	548.21	612.66	561.90
608.60	576.37	609.96	553.56	611.28	639.07	612.67	604.52
608.61	638.14	609.98	636.36	611.29	610.52	612.68	555.86
608.63	546.28	609.99	590.46	611.30	601.09	612.71	553.95
608.67	659.84	610.00	636.09	611.34	548.20	612.72	609.40
608.68	553.39	610.03	553.90	611.35	605.26	612.74	601.14
608.69	549.12	610.04	579.60	611.37	649.99	612.75	654.72
608.72	661.37	610.06	549.91	611.40	544.33	612.77	634.26
608.73	569.85	610.07	548.87	611.43	609.70	612.78	545.44
608.75	638.82	610.10	636.12	611.44	547.18	612.80	647.87
608.80	604.07	610.11	643.27	611.45	660.48	612.85	611.18
608.81	638.19	610.13	564.41	611.46	597.52	612.86	579.72
608.84	609.65	610.15	571.70	611.48	624.94	612.87	551.35
608.85	608.87	610.18	600.85	611.55	610.27	612.89	544.99
608.88	660.64	610.21	556.16	611.58	552.05	612.91	552.68
608.89	541.59	610.23	608.03	611.60	614.26	612.92	591.73
608.93	651.54	610.24	580.77	611.64	631.95	612.93	547.76
608.96	632.81	610.25	569.40	611.65	604.89	612.94	492.01
608.98	575.93	610.31	595.23	611.67	562.53	612.95	611.17
609.02	552.35	610.32	547.85	611.68	603.11	612.98	557.48
609.03	595.54	610.33	635.12	611.69	632.33	613.01	610.49
609.05	569.49	610.34	605.60	611.72	644.65	613.03	595.53
609.06	661.37	610.35	662.28	611.75	619.17	613.04	549.45
609.07	637.87	610.36	556.52	611.79	602.07	613.08	608.26
609.08	610.35	610.37	610.73	611.81	587.42	613.09	650.69
609.13	549.28	610.39	607.03	611.86	607.02	613.10	612.26
609.14	610.82	610.42	556.98	611.87	616.57	613.11	611.89
609.15	609.39	610.46	545.72	611.89	610.72	613.12	471.91
609.18	548.73	610.49	609.09	611.90	604.47	613.16	559.64
609.21	621.31	610.50	653.14	611.92	638.92	613.18	543.94
609.22	578.39	610.51	580.61	611.95	597.98	613.20	555.79
609.23	651.94	610.53	613.76	611.97	649.03	613.24	614.04
609.25	545.84	610.54	651.81	612.04	636.66	613.25	546.17
609.28	610.12	610.56	607.84	612.11	595.33	613.26	615.68
609.29	594.94	610.57	609.21	612.14	607.67	613.27	577.13
609.30	549.10	610.58	568.20	612.18	661.78	613.29	534.68
609.33	575.57	610.60	549.46	612.19	610.78	613.30	645.03
609.34	594.58	610.62	554.25	612.20	629.64	613.34	597.33
609.35	610.75	610.64	549.31	612.21	595.07	613.36	579.41
609.38	608.48	610.68	555.94	612.26	595.67	613.38	548.91
609.39	616.14	610.69	553.90	612.29	623.50	613.39	612.35
609.42	553.84	610.71	553.16	612.30	640.55	613.40	580.63
609.43	662.09	610.76	609.36	612.33	595.57	613.41	637.48

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
613.45	595.05	614.76	545.76	615.89	595.19	617.28	585.85
613.46	660.74	614.78	657.70	615.90	595.85	617.32	640.92
613.48	610.62	614.83	610.34	615.94	604.37	617.33	595.20
613.55	609.64	614.84	636.12	615.96	612.51	617.34	610.32
613.56	603.12	614.88	577.70	616.00	638.97	617.37	654.76
613.57	641.98	614.89	602.68	616.05	567.19	617.43	602.28
613.58	575.13	614.90	548.54	616.08	610.66	617.45	638.56
613.59	607.59	614.92	581.26	616.10	557.75	617.46	637.43
613.62	611.30	614.93	610.98	616.11	593.60	617.55	549.24
613.63	639.09	614.96	554.65	616.12	638.61	617.58	555.39
613.64	595.53	614.99	558.09	616.13	655.29	617.60	638.52
613.67	576.65	615.00	614.11	616.16	595.62	617.64	624.93
613.69	602.02	615.01	595.10	616.17	618.38	617.65	548.17
613.70	595.79	615.03	615.63	616.22	546.94	617.67	603.50
613.71	626.76	615.04	662.75	616.23	660.40	617.71	611.09
613.73	550.20	615.05	557.95	616.25	615.08	617.72	650.83
613.74	549.60	615.07	661.61	616.26	639.82	617.73	637.36
613.75	606.39	615.09	662.83	616.27	611.24	617.74	639.35
613.76	550.30	615.10	550.19	616.29	579.48	617.80	609.18
613.77	595.43	615.13	649.65	616.30	585.20	617.81	576.63
613.78	551.51	615.14	550.02	616.32	569.86	617.86	654.77
613.79	556.80	615.15	584.57	616.33	665.25	617.88	627.95
613.90	547.07	615.17	661.94	616.37	657.59	617.90	659.33
613.93	637.08	615.18	552.15	616.40	606.12	617.94	610.04
614.00	661.35	615.19	614.72	616.42	646.74	617.95	639.90
614.02	617.84	615.22	637.82	616.43	628.42	617.96	648.92
614.04	579.53	615.23	632.41	616.44	553.95	617.97	618.35
614.08	546.62	615.24	582.12	616.46	637.14	617.98	635.39
614.09	598.06	615.25	610.78	616.49	595.92	618.00	613.09
614.10	664.46	615.26	610.07	616.53	639.74	618.01	595.90
614.11	637.71	615.27	573.31	616.56	571.76	618.05	594.64
614.12	575.29	615.30	595.35	616.59	624.47	618.08	662.52
614.13	557.19	615.31	618.10	616.62	605.67	618.11	639.95
614.14	610.60	615.32	580.79	616.64	661.40	618.13	583.74
614.15	609.50	615.34	635.81	616.65	556.92	618.20	612.26
614.16	604.22	615.36	651.15	616.71	595.96	618.21	577.92
614.17	639.93	615.38	576.70	616.73	579.92	618.22	616.72
614.19	570.70	615.40	654.09	616.74	580.01	618.23	649.29
614.24	611.70	615.41	578.80	616.76	660.16	618.27	586.84
614.26	599.79	615.42	619.82	616.80	637.11	618.28	558.06
614.30	633.60	615.44	650.26	616.83	550.37	618.29	595.88
614.34	591.81	615.47	598.73	616.84	573.94	618.32	595.19
614.35	622.84	615.49	608.02	616.86	548.09	618.33	658.05
614.37	544.42	615.50	612.38	616.88	546.97	618.38	634.95
614.41	579.96	615.53	557.72	616.90	548.53	618.42	595.35
614.42	659.59	615.54	598.17	616.91	609.08	618.43	601.33
614.43	545.48	615.63	556.23	616.92	639.57	618.44	545.21
614.46	612.66	615.65	616.29	616.95	653.12	618.46	610.09
614.47	610.64	615.68	548.16	617.02	609.60	618.48	608.27
614.49	627.27	615.69	576.56	617.07	585.20	618.49	580.19
614.50	595.12	615.70	592.46	617.08	558.19	618.50	595.34
614.53	609.49	615.71	609.97	617.13	578.02	618.59	595.86
614.55	640.46	615.72	550.08	617.15	610.79	618.60	556.66
614.57	616.47	615.75	595.79	617.18	610.86	618.62	661.94
614.60	610.80	615.76	638.81	617.19	637.27	618.64	611.72
614.61	584.50	615.77	596.21	617.20	613.91	618.70	550.50
614.66	639.49	615.80	662.86	617.21	663.84	618.71	613.50
614.69	645.53	615.83	623.37	617.22	663.12	618.73	580.98
614.72	584.57	615.84	638.75	617.24	585.17	618.75	611.26
614.75	610.41	615.87	595.64	617.26	554.26	618.76	660.59

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
618.77	572.82	620.08	618.19	621.32	550.97	622.66	617.47
618.78	606.04	620.12	610.81	621.33	618.25	622.69	574.79
618.81	648.04	620.15	559.14	621.38	584.18	622.70	639.05
618.82	619.63	620.18	591.39	621.41	674.40	622.71	611.23
618.83	599.20	620.19	608.21	621.46	552.06	622.74	627.79
618.85	639.68	620.21	658.73	621.52	652.25	622.77	548.91
618.89	612.48	620.22	653.31	621.54	595.43	622.79	637.86
618.93	659.12	620.25	554.00	621.56	613.46	622.80	575.74
618.94	614.45	620.27	595.26	621.57	639.59	622.81	618.23
618.95	595.28	620.31	601.20	621.58	611.83	622.83	616.23
618.97	663.36	620.32	558.82	621.60	611.54	622.85	589.04
618.98	611.67	620.35	557.44	621.62	649.28	622.86	660.44
618.99	612.15	620.36	616.30	621.63	620.18	622.89	550.78
619.01	612.07	620.37	608.27	621.65	609.18	622.90	611.44
619.05	614.50	620.38	652.79	621.68	640.10	622.92	663.10
619.07	637.42	620.39	584.17	621.69	550.54	622.93	555.59
619.11	578.62	620.40	611.90	621.73	664.15	622.95	611.96
619.12	648.66	620.43	615.45	621.74	615.24	622.97	610.70
619.14	605.90	620.45	660.03	621.76	595.90	622.99	558.59
619.16	610.89	620.47	611.03	621.77	552.86	623.07	638.06
619.17	657.21	620.48	577.65	621.78	628.49	623.14	551.35
619.25	638.12	620.50	661.63	621.79	637.02	623.15	549.24
619.26	612.70	620.54	609.60	621.80	584.45	623.21	626.77
619.31	640.67	620.58	611.33	621.84	614.74	623.23	496.30
619.32	635.98	620.60	631.80	621.85	610.97	623.25	595.92
619.34	583.63	620.62	558.86	621.87	626.16	623.26	596.04
619.35	640.55	620.65	596.25	621.88	611.53	623.27	579.65
619.37	592.53	620.70	620.51	621.92	652.65	623.28	639.88
619.39	622.91	620.72	645.61	621.96	615.59	623.30	609.64
619.42	638.22	620.76	587.25	621.97	619.45	623.31	595.52
619.43	625.17	620.77	610.56	622.14	595.44	623.34	558.82
619.44	594.63	620.79	556.71	622.15	611.67	623.38	629.32
619.46	611.39	620.80	614.27	622.16	622.06	623.40	612.07
619.49	637.28	620.83	610.26	622.17	595.92	623.43	612.35
619.50	618.59	620.84	615.92	622.18	663.58	623.44	664.66
619.51	611.21	620.85	582.45	622.19	611.78	623.45	656.94
619.52	583.59	620.87	621.34	622.20	619.80	623.46	595.34
619.53	644.92	620.88	595.45	622.22	611.55	623.48	587.34
619.55	581.76	620.91	484.21	622.24	637.45	623.49	559.14
619.61	611.27	620.94	547.12	622.25	581.35	623.51	558.68
619.62	611.54	620.96	591.00	622.27	611.41	623.52	650.12
619.63	616.55	620.97	558.72	622.31	578.97	623.53	595.91
619.65	638.25	620.98	551.03	622.32	617.52	623.55	639.92
619.67	634.92	620.99	595.85	622.33	551.34	623.56	551.92
619.68	600.67	621.00	613.04	622.35	597.49	623.58	595.91
619.69	554.35	621.02	609.22	622.36	551.94	623.60	663.96
619.71	577.03	621.03	612.06	622.38	656.99	623.67	596.07
619.72	627.40	621.05	640.96	622.39	637.19	623.70	638.13
619.73	595.93	621.06	638.52	622.41	581.48	623.71	660.73
619.74	595.36	621.07	620.33	622.42	550.61	623.72	638.24
619.75	620.72	621.08	552.96	622.43	614.91	623.79	596.13
619.76	660.12	621.10	614.84	622.47	586.01	623.84	607.85
619.81	604.70	621.16	551.43	622.48	610.26	623.86	641.57
619.82	611.07	621.18	639.11	622.50	663.09	623.89	662.97
619.84	658.56	621.19	597.49	622.51	618.99	623.91	667.57
619.89	612.07	621.21	651.59	622.52	595.76	623.97	550.27
619.94	614.49	621.22	663.50	622.55	632.51	623.99	618.61
620.01	558.06	621.24	577.93	622.56	552.61	624.04	584.04
620.02	637.41	621.28	618.00	622.61	616.77	624.05	610.88
620.05	662.67	621.31	623.40	622.62	578.23	624.06	612.08

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
624.08	614.40	625.79	661.43	627.79	614.56	629.35	612.57
624.13	581.80	625.80	657.93	627.84	581.96	629.37	579.65
624.14	612.33	625.81	612.84	627.85	617.81	629.38	662.31
624.15	662.25	625.83	612.45	627.88	595.78	629.39	642.37
624.18	638.50	625.90	585.46	627.90	625.29	629.46	553.67
624.19	611.55	625.91	640.49	627.94	663.31	629.48	552.68
624.20	610.84	625.99	619.96	627.97	621.88	629.51	650.21
624.21	641.46	626.02	552.88	628.04	596.37	629.53	639.86
624.22	667.89	626.08	621.41	628.07	553.61	629.54	665.18
624.26	616.91	626.11	640.63	628.08	560.07	629.56	609.93
624.33	641.30	626.15	599.87	628.10	559.49	629.57	664.48
624.37	661.75	626.17	620.93	628.11	638.70	629.61	616.04
624.40	612.72	626.21	637.98	628.14	663.32	629.64	601.77
624.42	549.75	626.23	613.47	628.16	625.16	629.68	623.17
624.44	613.06	626.30	638.52	628.23	590.16	629.69	663.27
624.46	638.42	626.31	552.06	628.25	612.48	629.70	663.30
624.47	612.84	626.34	553.92	628.26	610.89	629.73	596.60
624.48	616.37	626.36	664.77	628.27	637.09	629.76	573.95
624.51	620.28	626.47	622.79	628.29	552.49	629.79	663.82
624.52	629.97	626.53	641.39	628.33	621.55	629.82	654.56
624.53	642.16	626.54	595.53	628.34	596.35	629.86	559.18
624.57	551.52	626.60	662.71	628.35	610.64	629.87	552.97
624.63	660.07	626.62	668.99	628.46	611.65	629.94	622.84
624.64	608.72	626.63	663.84	628.47	620.01	629.96	555.09
624.66	641.60	626.65	610.86	628.52	663.73	629.99	665.44
624.69	638.16	626.67	590.24	628.54	653.36	630.00	618.96
624.73	549.91	626.68	625.54	628.56	588.81	630.02	628.49
624.79	559.27	626.69	622.25	628.57	549.16	630.03	557.81
624.81	583.81	626.72	616.33	628.61	595.82	630.08	667.20
624.87	642.03	626.73	589.17	628.63	553.54	630.09	625.11
624.88	662.17	626.76	595.78	628.64	595.75	630.15	560.19
624.89	581.01	626.77	551.49	628.66	615.20	630.16	621.70
624.90	551.24	626.78	637.56	628.67	549.83	630.17	655.26
624.92	608.70	626.84	611.36	628.71	552.18	630.18	620.87
624.93	619.71	626.89	614.20	628.72	552.73	630.21	633.22
624.94	661.58	626.93	552.68	628.74	619.11	630.22	595.89
624.97	619.11	626.96	553.16	628.75	669.44	630.24	612.41
625.03	554.21	626.98	639.78	628.76	666.12	630.25	597.64
625.05	551.64	626.99	553.12	628.78	556.02	630.29	602.61
625.07	586.15	627.01	613.75	628.80	596.38	630.31	593.86
625.08	609.06	627.08	608.89	628.83	616.84	630.34	595.63
625.10	589.62	627.22	662.86	628.86	641.79	630.37	560.03
625.11	663.95	627.26	581.73	628.87	587.56	630.39	674.87
625.14	623.67	627.32	554.13	628.88	595.98	630.40	664.87
625.19	619.01	627.35	614.84	628.89	623.78	630.41	664.91
625.22	651.36	627.41	559.80	628.97	642.95	630.42	637.67
625.26	596.05	627.42	556.17	629.02	650.14	630.45	618.70
625.31	558.85	627.46	612.28	629.08	664.66	630.50	665.05
625.37	581.28	627.49	573.67	629.12	599.47	630.52	605.84
625.38	652.12	627.50	585.50	629.13	609.97	630.54	642.84
625.39	558.96	627.51	551.62	629.15	661.22	630.56	642.89
625.44	662.29	627.53	665.68	629.17	611.82	630.61	596.61
625.45	574.07	627.56	550.30	629.18	613.61	630.62	552.62
625.52	620.83	627.57	613.59	629.19	619.84	630.63	553.21
625.53	626.61	627.58	666.39	629.20	616.41	630.64	596.28
625.55	608.45	627.62	596.09	629.22	610.92	630.65	637.56
625.57	615.11	627.70	639.25	629.27	641.62	630.68	660.40
625.62	576.35	627.71	662.94	629.28	620.70	630.69	647.07
625.66	648.88	627.72	603.73	629.30	641.75	630.73	579.06
625.67	628.45	627.78	613.75	629.32	499.63	630.80	596.39

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
630.83	581.14	632.52	666.02	634.08	603.28	635.71	626.64
630.84	488.00	632.58	642.48	634.09	639.87	635.74	662.93
630.85	671.19	632.60	559.98	634.10	572.18	635.76	662.99
630.92	666.78	632.61	655.99	634.11	595.95	635.77	669.11
630.93	550.07	632.62	643.06	634.13	550.86	635.80	611.50
630.96	551.75	632.65	660.78	634.17	671.02	635.83	609.50
630.97	591.07	632.66	610.19	634.19	664.76	635.85	612.85
631.00	620.62	632.70	613.96	634.28	624.35	635.87	602.89
631.02	671.56	632.72	641.71	634.29	596.55	635.88	596.79
631.09	641.39	632.73	612.58	634.31	629.37	635.91	625.32
631.10	663.78	632.78	626.15	634.40	613.36	635.95	643.12
631.11	611.94	632.80	667.01	634.42	608.13	635.97	626.93
631.13	612.07	632.81	643.41	634.43	665.83	636.00	639.74
631.19	614.48	632.83	638.13	634.44	642.41	636.02	596.00
631.28	663.32	632.91	597.01	634.45	671.13	636.03	665.34
631.30	660.99	632.92	611.49	634.46	667.23	636.05	612.48
631.35	615.47	632.93	622.00	634.47	666.80	636.07	614.10
631.37	591.09	632.94	615.07	634.49	595.98	636.13	596.87
631.38	642.65	632.95	638.95	634.51	626.70	636.15	613.52
631.39	586.18	632.96	615.69	634.52	667.60	636.16	628.35
631.41	634.94	632.99	606.97	634.55	644.28	636.18	612.38
631.42	625.42	633.05	643.89	634.62	663.84	636.21	641.20
631.43	639.38	633.06	554.32	634.63	652.73	636.22	596.39
631.46	598.23	633.07	638.71	634.65	661.87	636.24	589.60
631.47	619.45	633.09	618.22	634.68	643.11	636.25	561.25
631.48	613.70	633.11	552.78	634.77	652.49	636.28	666.72
631.59	623.63	633.12	554.58	634.78	620.02	636.30	612.96
631.67	607.01	633.16	614.26	634.85	553.45	636.35	663.75
631.68	665.44	633.19	612.51	634.86	629.90	636.36	627.60
631.70	664.59	633.20	607.52	634.88	625.31	636.41	596.15
631.72	556.34	633.22	627.68	634.90	588.84	636.43	611.61
631.75	613.26	633.24	625.07	634.92	619.75	636.49	611.15
631.76	612.50	633.27	623.61	634.93	612.98	636.53	628.48
631.78	640.11	633.31	595.88	634.98	665.29	636.55	620.80
631.80	626.41	633.34	625.88	634.99	625.35	636.57	615.69
631.81	666.52	633.37	596.53	635.01	629.20	636.59	626.88
631.93	597.45	633.38	664.00	635.03	650.26	636.60	643.17
631.94	584.42	633.40	553.83	635.09	554.43	636.62	621.82
631.98	640.82	633.42	614.70	635.14	560.85	636.67	587.20
632.03	631.22	633.44	596.44	635.20	612.35	636.74	592.51
632.04	620.42	633.46	596.23	635.21	657.46	636.78	617.45
632.07	663.27	633.52	596.18	635.22	668.21	636.80	651.10
632.10	587.66	633.54	641.87	635.24	588.62	636.81	637.45
632.11	664.13	633.56	660.72	635.27	561.25	636.84	665.68
632.12	662.74	633.58	640.11	635.28	634.13	636.85	612.50
632.15	552.52	633.60	637.34	635.31	664.80	636.93	614.11
632.17	580.19	633.61	624.63	635.33	620.75	636.98	612.42
632.20	626.99	633.66	664.49	635.38	554.80	637.01	623.97
632.22	663.01	633.69	644.64	635.39	628.31	637.03	642.83
632.23	596.44	633.77	638.00	635.40	658.52	637.06	634.92
632.33	611.24	633.81	622.25	635.44	666.02	637.14	613.05
632.35	621.50	633.85	596.30	635.45	654.60	637.17	666.00
632.36	622.87	633.87	591.38	635.48	612.53	637.19	599.11
632.38	662.92	633.92	677.45	635.54	643.19	637.26	644.72
632.41	614.04	633.93	642.94	635.58	554.82	637.27	613.30
632.42	606.91	633.94	667.76	635.59	614.24	637.28	669.31
632.43	554.42	633.98	641.85	635.62	612.77	637.31	595.12
632.45	626.21	634.00	650.89	635.64	621.07	637.36	664.62
632.50	550.22	634.02	624.25	635.66	669.50	637.40	642.17
632.51	612.35	634.04	611.64	635.69	588.04	637.48	663.23

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
637.50	664.12	639.50	612.39	641.18	612.29	643.26	627.58
637.52	591.63	639.57	642.50	641.19	557.47	643.27	636.80
637.54	614.11	639.63	625.77	641.20	596.22	643.29	554.81
637.55	621.77	639.66	614.19	641.25	612.70	643.31	596.35
637.57	629.95	639.70	621.95	641.26	554.43	643.34	557.09
637.61	654.21	639.71	674.89	641.27	595.97	643.38	672.68
637.66	552.59	639.72	662.83	641.32	660.81	643.41	597.17
637.69	669.76	639.81	641.29	641.39	613.79	643.43	676.98
637.80	609.56	639.83	610.22	641.43	596.94	643.45	557.29
637.81	623.15	639.94	637.98	641.46	491.11	643.46	561.88
637.84	667.74	639.96	670.58	641.47	561.26	643.47	658.61
637.85	665.78	639.99	615.36	641.50	616.55	643.49	556.74
637.91	646.58	640.00	612.94	641.53	645.24	643.56	612.09
637.92	559.52	640.01	612.93	641.54	675.77	643.57	620.68
637.94	644.63	640.02	666.62	641.66	644.67	643.59	614.03
637.95	596.22	640.03	611.41	641.69	644.80	643.74	645.32
637.96	595.52	640.06	561.21	641.72	554.23	643.75	634.71
637.99	669.86	640.10	611.48	641.75	563.14	643.76	631.35
638.05	666.76	640.13	561.91	641.80	624.21	643.77	597.03
638.12	603.04	640.14	627.01	641.87	597.33	643.78	629.32
638.13	554.66	640.19	594.22	641.91	647.99	643.80	596.52
638.17	596.28	640.28	612.90	641.96	682.41	643.81	557.20
638.22	646.11	640.37	671.79	642.03	612.74	643.82	562.00
638.25	664.16	640.49	644.92	642.06	611.28	643.83	642.70
638.32	611.84	640.50	612.98	642.08	651.68	643.97	648.66
638.33	596.71	640.52	622.32	642.11	642.11	643.99	555.22
638.36	622.79	640.57	621.23	642.13	665.44	644.00	627.75
638.43	651.91	640.58	644.81	642.18	596.52	644.03	630.60
638.48	668.05	640.59	596.22	642.25	588.87	644.04	642.06
638.49	617.28	640.63	624.31	642.30	672.46	644.05	595.06
638.51	644.22	640.65	596.76	642.31	667.78	644.16	642.46
638.53	596.11	640.66	663.90	642.37	628.08	644.18	610.93
638.56	666.02	640.69	596.77	642.41	640.77	644.21	645.97
638.57	672.46	640.74	607.16	642.50	672.04	644.25	625.33
638.67	631.07	640.75	551.38	642.52	596.12	644.27	629.18
638.72	649.03	640.76	625.10	642.58	611.71	644.28	672.72
638.73	596.23	640.77	631.13	642.59	551.76	644.33	632.27
638.79	561.22	640.78	596.80	642.60	611.80	644.34	627.16
638.81	614.00	640.79	616.74	642.62	626.42	644.36	626.52
638.82	651.92	640.80	676.40	642.66	647.42	644.37	664.49
638.90	644.84	640.81	555.61	642.70	551.95	644.49	663.15
638.98	663.43	640.83	553.45	642.72	674.55	644.50	649.72
639.00	640.71	640.84	657.85	642.77	625.98	644.57	597.23
639.02	665.92	640.86	641.30	642.79	625.31	644.58	673.97
639.04	615.22	640.88	623.24	642.80	644.20	644.59	613.64
639.05	552.07	640.92	555.72	642.82	562.11	644.61	649.52
639.06	645.11	640.93	611.17	642.86	555.01	644.62	675.35
639.12	627.52	640.94	554.07	642.90	643.08	644.64	596.88
639.21	670.69	640.95	665.47	642.93	655.72	644.66	643.44
639.22	641.60	640.96	591.97	642.96	632.12	644.67	628.45
639.26	673.01	640.97	626.13	642.98	597.92	644.71	675.35
639.28	612.98	640.98	665.02	643.01	597.20	644.73	555.23
639.31	596.72	641.02	643.50	643.03	617.82	644.80	668.44
639.32	593.43	641.03	560.74	643.04	682.41	644.84	640.20
639.37	666.52	641.07	606.33	643.11	621.74	644.86	556.02
639.41	600.14	641.10	649.49	643.12	669.87	644.90	642.56
639.44	552.67	641.13	622.81	643.13	596.75	644.92	631.40
639.46	641.67	641.14	631.97	643.17	594.28	644.94	679.14
639.47	555.26	641.15	611.79	643.18	561.98	644.96	667.97
639.49	624.88	641.17	596.78	643.19	658.72	644.98	598.43

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
645.00	668.13	647.08	651.46	649.27	676.53	650.94	563.33
645.03	646.86	647.09	597.26	649.30	596.37	650.95	613.93
645.08	650.34	647.10	677.65	649.34	680.77	651.02	632.93
645.14	624.18	647.12	665.37	649.35	597.39	651.03	683.69
645.23	637.36	647.15	628.32	649.42	597.41	651.07	612.19
645.26	614.42	647.17	646.62	649.43	614.10	651.08	647.63
645.27	626.89	647.18	676.33	649.47	666.14	651.09	630.22
645.28	594.60	647.20	644.96	649.48	643.02	651.14	597.90
645.37	626.64	647.23	620.70	649.54	609.16	651.16	597.58
645.42	666.80	647.25	645.60	649.55	619.92	651.19	646.29
645.43	675.66	647.27	641.17	649.56	628.69	651.25	646.01
645.44	669.50	647.32	645.83	649.60	647.29	651.27	663.33
645.48	669.89	647.38	597.34	649.65	626.66	651.29	597.25
645.53	668.71	647.39	679.00	649.66	662.43	651.31	637.33
645.54	657.73	647.41	664.75	649.68	645.41	651.36	669.08
645.58	644.10	647.47	555.30	649.70	644.38	651.37	592.23
645.59	554.92	647.59	614.41	649.73	614.72	651.42	662.44
645.64	613.63	647.63	613.20	649.81	601.24	651.44	647.91
645.66	557.19	647.66	624.81	649.82	630.71	651.45	673.00
645.71	641.08	647.73	635.72	649.86	612.77	651.53	647.14
645.73	596.18	647.80	636.09	649.89	644.60	651.54	653.50
645.83	631.56	647.81	612.92	649.94	597.37	651.55	597.44
645.84	663.21	647.88	644.82	649.95	671.47	651.72	596.80
645.86	644.93	647.89	666.19	649.96	647.16	651.77	680.88
645.88	633.74	647.92	640.00	649.98	663.32	651.78	605.31
645.91	642.65	647.93	681.90	650.03	612.05	651.79	597.80
645.98	592.38	647.97	635.26	650.05	600.71	651.84	597.33
646.03	643.60	647.99	593.96	650.07	673.10	651.85	675.56
646.05	633.94	648.02	597.30	650.09	634.87	651.86	678.84
646.07	598.62	648.05	605.26	650.10	661.20	651.90	644.17
646.12	596.56	648.10	562.82	650.16	669.50	651.92	596.76
646.14	630.59	648.15	668.14	650.17	688.23	651.94	635.16
646.15	597.12	648.18	674.40	650.29	597.14	651.97	598.05
646.17	683.03	648.23	629.20	650.32	560.47	651.99	613.81
646.21	643.51	648.27	644.24	650.33	614.93	652.00	643.59
646.39	600.43	648.33	614.67	650.37	647.11	652.03	669.42
646.43	596.55	648.37	557.60	650.39	647.82	652.05	654.60
646.45	663.18	648.40	661.86	650.41	669.84	652.12	647.37
646.47	552.90	648.46	605.06	650.43	680.73	652.17	673.54
646.48	646.62	648.51	667.80	650.45	666.74	652.29	679.36
646.49	556.23	648.56	611.96	650.47	614.09	652.31	597.69
646.55	644.64	648.58	596.44	650.51	669.57	652.32	668.78
646.58	646.84	648.59	647.40	650.54	648.23	652.36	636.16
646.65	659.40	648.64	597.10	650.56	597.39	652.37	666.67
646.72	621.32	648.68	655.91	650.57	635.49	652.48	645.24
646.74	646.40	648.72	597.05	650.58	674.83	652.49	628.02
646.76	664.80	648.73	590.12	650.62	602.42	652.58	684.92
646.77	645.44	648.74	675.87	650.63	643.45	652.63	597.67
646.80	646.67	648.81	635.22	650.64	601.99	652.66	673.01
646.83	643.35	648.85	597.25	650.66	629.40	652.78	675.96
646.84	675.33	648.87	597.38	650.73	612.15	652.82	679.56
646.85	674.29	648.88	614.88	650.74	633.89	652.85	649.92
646.88	550.64	648.90	644.46	650.77	688.32	652.88	647.91
646.89	555.72	648.95	614.74	650.84	638.05	652.97	628.10
646.90	552.25	648.99	645.84	650.85	668.62	653.00	670.08
646.95	651.25	649.06	632.58	650.86	482.44	653.04	648.87
646.97	621.63	649.07	648.50	650.88	562.97	653.10	615.83
646.98	665.20	649.12	432.46	650.89	673.60	653.13	664.33
647.06	611.46	649.22	611.67	650.90	614.29	653.22	689.11
647.07	615.94	649.25	630.15	650.92	634.05	653.26	597.47

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
653.34	625.01	655.24	656.25	657.50	678.87	659.73	680.50
653.38	668.96	655.33	664.10	657.52	649.44	659.74	598.77
653.43	563.41	655.34	649.03	657.56	687.52	659.75	650.46
653.45	596.90	655.43	613.62	657.57	614.16	659.77	683.84
653.47	614.26	655.51	635.87	657.60	633.86	659.79	679.73
653.48	596.86	655.52	681.09	657.63	633.26	659.82	657.90
653.50	640.20	655.59	614.97	657.67	666.41	659.86	563.05
653.52	613.18	655.62	614.80	657.70	645.56	659.87	614.57
653.57	557.88	655.64	637.03	657.78	632.09	659.89	637.86
653.61	645.62	655.65	681.05	657.84	613.64	659.90	679.47
653.63	613.78	655.68	679.67	657.91	555.50	659.94	633.77
653.66	597.85	655.70	613.23	657.92	647.73	659.97	686.66
653.75	618.49	655.71	646.86	657.93	667.71	659.98	684.47
653.80	685.28	655.74	632.54	657.95	614.07	660.00	559.82
653.81	635.88	655.76	651.81	658.02	597.47	660.01	650.19
653.82	674.47	655.88	555.47	658.03	672.60	660.14	592.03
653.83	614.46	655.89	597.84	658.10	685.21	660.19	649.80
653.88	630.23	655.93	686.34	658.14	555.11	660.23	597.48
653.89	681.55	655.94	647.12	658.15	645.59	660.25	597.96
653.90	614.45	656.06	605.52	658.16	641.03	660.26	684.05
653.93	617.90	656.18	675.57	658.19	657.77	660.29	645.26
653.94	613.92	656.20	665.78	658.21	557.19	660.31	658.38
653.97	597.60	656.23	597.12	658.22	614.11	660.34	645.25
654.01	668.58	656.29	556.77	658.25	556.82	660.35	614.31
654.04	617.24	656.37	615.24	658.27	622.28	660.36	647.61
654.05	612.16	656.45	638.10	658.32	592.34	660.39	609.84
654.08	671.26	656.51	604.95	658.37	676.76	660.40	649.74
654.11	642.91	656.52	681.41	658.40	615.57	660.49	597.96
654.12	645.10	656.55	597.74	658.43	641.80	660.53	650.12
654.16	614.05	656.57	666.88	658.45	611.14	660.57	694.98
654.17	691.24	656.58	598.45	658.47	606.83	660.63	683.84
654.27	558.04	656.59	597.53	658.49	640.58	660.64	646.16
654.29	597.97	656.68	639.54	658.52	597.37	660.65	658.80
654.32	597.78	656.73	647.59	658.53	654.22	660.67	637.41
654.33	666.50	656.79	639.41	658.56	557.72	660.76	627.78
654.34	557.70	656.80	666.45	658.62	648.20	660.80	642.18
654.36	644.79	656.81	648.40	658.74	635.67	660.91	659.02
654.39	613.90	656.82	598.07	658.75	558.71	660.94	684.52
654.42	597.72	656.85	597.51	658.81	604.89	660.99	667.37
654.46	646.82	656.87	646.15	658.88	648.50	661.01	559.23
654.60	612.70	656.91	597.77	658.94	637.61	661.03	656.08
654.61	601.34	656.96	683.63	658.97	683.15	661.04	650.92
654.69	648.76	657.01	645.62	659.04	679.81	661.15	649.29
654.70	636.79	657.04	635.47	659.12	669.14	661.16	625.08
654.73	603.17	657.06	669.25	659.14	563.64	661.17	647.51
654.75	619.20	657.09	679.85	659.18	597.51	661.25	672.44
654.77	658.09	657.11	650.19	659.22	689.17	661.27	668.02
654.79	638.32	657.16	657.24	659.28	666.28	661.32	684.58
654.80	640.63	657.20	556.80	659.29	614.21	661.34	650.28
654.81	646.59	657.23	647.90	659.40	685.60	661.36	685.64
654.85	636.89	657.28	598.15	659.43	637.43	661.41	695.88
654.94	614.22	657.29	628.76	659.48	556.89	661.45	598.55
655.02	645.14	657.33	597.84	659.49	685.70	661.46	651.26
655.05	612.81	657.34	597.75	659.50	627.96	661.50	651.26
655.06	419.05	657.35	613.38	659.51	614.22	661.52	611.97
655.07	597.65	657.38	638.82	659.54	554.59	661.57	597.20
655.08	614.62	657.39	647.64	659.55	564.03	661.63	619.59
655.10	674.15	657.42	656.94	659.65	553.70	661.64	677.26
655.11	613.95	657.43	605.74	659.69	641.69	661.67	610.51
655.17	597.93	657.46	647.41	659.72	597.54	661.68	634.73



PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
661.69	684.46	664.42	685.88	667.25	668.69	670.21	665.95
661.72	633.16	664.47	645.96	667.31	598.05	670.23	624.61
661.73	631.43	664.51	669.22	667.46	608.54	670.25	598.90
661.74	556.04	664.57	598.79	667.47	665.69	670.28	652.79
661.79	684.18	664.59	638.66	667.55	669.47	670.34	614.47
661.81	670.40	664.60	651.46	667.56	644.35	670.35	649.29
661.87	667.72	664.65	639.79	667.60	639.20	670.39	670.39
661.91	684.75	664.67	611.82	667.61	653.47	670.41	599.17
661.95	649.97	664.69	598.79	667.62	650.19	670.43	690.09
661.97	689.15	664.75	638.45	667.70	654.33	670.48	610.87
662.11	564.10	664.78	644.07	667.71	666.23	670.50	614.91
662.15	641.47	664.80	615.39	667.76	644.30	670.51	671.82
662.17	669.02	664.81	633.36	667.87	689.90	670.60	674.70
662.18	615.52	664.88	670.17	667.89	652.19	670.63	647.22
662.19	670.52	664.92	651.38	667.93	614.72	670.68	599.22
662.25	649.54	664.94	598.81	667.97	686.12	670.72	599.61
662.28	563.94	664.98	599.31	667.98	604.48	670.80	642.28
662.29	651.28	665.01	598.96	668.01	613.65	670.84	615.18
662.30	626.14	665.05	598.03	668.09	658.07	670.85	673.25
662.38	614.28	665.14	661.81	668.10	647.88	670.86	653.21
662.46	598.35	665.15	668.64	668.11	647.75	670.90	689.55
662.50	650.88	665.18	622.38	668.12	683.53	670.91	652.50
662.61	677.95	665.19	651.42	668.13	599.02	670.92	405.03
662.65	641.33	665.25	669.50	668.25	651.92	670.96	599.30
662.70	598.39	665.26	643.83	668.27	649.43	670.97	614.47
662.74	598.78	665.29	615.90	668.32	682.70	671.05	652.28
662.77	670.51	665.30	598.93	668.39	640.01	671.22	651.69
662.81	668.26	665.52	653.56	668.40	639.92	671.26	653.51
662.96	648.12	665.56	683.97	668.41	644.76	671.30	625.08
663.02	650.98	665.61	640.03	668.44	615.07	671.39	653.29
663.06	667.66	665.75	642.31	668.45	614.92	671.43	612.61
663.07	649.15	665.76	681.21	668.46	606.81	671.44	674.56
663.20	647.98	665.83	669.12	668.52	615.24	671.50	653.15
663.22	598.53	665.89	666.36	668.63	651.90	671.56	613.53
663.23	668.13	665.91	672.12	668.64	451.27	671.60	614.45
663.25	640.95	665.96	661.69	668.65	649.43	671.68	675.28
663.29	649.55	666.01	668.41	668.69	652.20	671.72	614.31
663.30	674.58	666.03	652.10	668.79	647.93	671.77	643.10
663.31	607.81	666.05	662.51	668.82	638.55	671.83	560.24
663.36	665.40	666.07	669.46	668.84	667.39	671.85	664.66
663.40	646.83	666.13	668.25	668.93	677.87	671.89	667.41
663.46	558.65	666.22	647.26	669.05	681.93	671.96	654.23
663.51	621.85	666.26	649.81	669.16	651.69	671.97	659.40
663.55	612.97	666.35	681.21	669.17	651.20	671.98	697.34
663.62	638.44	666.36	674.90	669.24	654.85	672.15	656.86
663.63	686.53	666.39	681.28	669.32	687.53	672.28	671.22
663.66	680.84	666.46	650.65	669.38	643.58	672.39	669.99
663.71	640.46	666.53	651.43	669.44	612.29	672.53	599.40
663.76	598.14	666.54	632.04	669.49	693.00	672.62	615.22
663.83	690.95	666.55	668.79	669.52	616.05	672.65	691.13
663.85	649.98	666.58	661.60	669.58	599.20	672.67	600.24
663.87	649.76	666.61	643.53	669.59	653.03	672.70	671.11
663.88	668.57	666.73	616.46	669.60	624.55	672.72	664.91
664.01	616.10	666.78	685.20	669.67	615.44	672.76	668.98
664.09	675.24	666.82	662.44	669.84	671.90	672.78	646.74
664.15	645.47	666.83	616.05	669.90	685.65	672.80	615.20
664.17	615.43	666.94	657.11	669.98	674.61	672.85	703.28
664.30	614.96	666.98	598.27	670.01	614.05	672.86	644.35
664.32	615.75	667.01	661.77	670.04	669.42	672.89	651.65
664.35	599.25	667.02	685.21	670.10	651.76	672.90	673.16

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
673.00	652.33	675.85	651.24	678.91	670.84	682.22	697.58
673.08	616.85	675.86	677.06	678.94	513.78	682.28	644.12
673.13	666.40	675.95	560.85	678.96	650.92	682.31	603.19
673.30	614.43	675.97	667.53	678.97	666.65	682.33	696.04
673.37	614.40	675.99	600.33	679.03	651.51	682.38	671.36
673.39	599.71	676.10	633.32	679.13	671.15	682.42	675.22
673.40	651.50	676.21	693.01	679.15	601.10	682.44	674.07
673.46	615.24	676.22	688.94	679.25	669.18	682.49	671.96
673.47	616.64	676.24	669.20	679.28	688.60	682.52	698.80
673.57	703.89	676.36	616.02	679.31	684.59	682.56	616.02
673.64	600.76	676.52	601.31	679.40	651.24	682.60	656.83
673.73	673.12	676.54	651.27	679.57	671.54	682.66	636.22
673.77	646.99	676.57	668.88	679.58	670.70	682.69	601.17
673.81	690.69	676.63	686.53	679.59	656.32	682.70	602.04
673.82	704.22	676.70	621.28	679.61	671.66	682.72	649.36
673.85	649.30	676.71	654.32	679.62	683.78	682.75	656.53
673.87	647.87	676.76	694.36	679.67	673.24	682.81	602.74
673.95	643.27	676.82	704.85	679.73	650.91	682.86	656.83
674.01	559.50	676.84	628.57	679.74	668.90	682.93	709.80
674.06	654.04	676.88	645.42	679.75	679.37	682.95	658.37
674.07	653.51	676.91	657.29	679.92	559.36	682.96	698.37
674.14	684.27	676.95	650.76	679.97	651.17	683.06	671.57
674.17	653.64	676.96	655.37	680.00	675.37	683.08	620.19
674.18	679.86	677.05	655.01	680.09	708.19	683.21	652.76
674.29	654.77	677.14	601.24	680.15	601.33	683.26	651.72
674.31	685.02	677.29	601.65	680.16	615.65	683.32	644.21
674.32	653.87	677.33	669.95	680.18	654.99	683.33	655.15
674.37	653.83	677.35	653.24	680.23	560.97	683.34	681.51
674.41	598.60	677.39	652.15	680.24	656.58	683.39	674.41
674.53	688.98	677.42	653.60	680.26	651.12	683.40	627.71
674.54	683.13	677.48	653.30	680.27	692.07	683.42	657.68
674.69	616.88	677.61	694.66	680.34	672.83	683.43	697.90
674.70	643.12	677.66	654.03	680.38	670.44	683.44	655.70
674.74	655.69	677.70	628.46	680.40	696.01	683.51	695.17
674.78	652.10	677.81	559.91	680.50	669.62	683.70	689.01
674.80	649.86	677.84	558.10	680.71	656.10	683.75	653.10
674.82	653.60	677.97	601.82	680.73	703.32	683.82	670.05
674.85	639.75	678.06	646.25	680.76	652.01	683.90	672.41
674.87	655.26	678.11	653.53	680.82	668.30	683.92	667.77
674.88	641.19	678.13	670.50	680.96	668.88	684.01	671.08
674.92	614.85	678.15	561.71	680.98	667.66	684.13	655.34
675.03	685.76	678.21	686.95	681.02	670.52	684.26	617.97
675.04	677.10	678.27	694.43	681.26	655.76	684.29	672.19
675.08	676.09	678.35	616.84	681.32	697.85	684.31	699.14
675.12	692.32	678.39	661.50	681.33	674.14	684.33	679.63
675.13	635.47	678.42	650.49	681.38	692.95	684.34	616.28
675.15	615.59	678.43	689.47	681.39	671.03	684.35	644.58
675.24	679.58	678.48	601.82	681.40	601.45	684.46	698.40
675.27	558.84	678.50	673.48	681.46	689.82	684.50	684.01
675.30	652.74	678.56	616.28	681.58	697.49	684.62	616.25
675.31	671.34	678.65	674.51	681.62	669.74	684.67	700.46
675.36	684.32	678.67	694.52	681.68	566.08	684.73	656.47
675.47	693.63	678.69	686.33	681.69	656.28	684.81	617.51
675.51	557.85	678.72	561.11	681.75	654.73	684.85	672.18
675.66	673.62	678.76	644.76	681.87	651.86	684.94	675.70
675.67	685.85	678.77	694.19	681.90	619.41	684.97	659.60
675.68	704.65	678.78	694.70	681.92	656.92	685.03	625.94
675.69	615.62	678.84	675.76	682.01	650.16	685.10	617.60
675.70	667.30	678.87	650.75	682.09	670.76	685.34	699.43
675.80	560.93	678.89	650.42	682.13	671.09	685.35	656.24

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
685.36	671.05	689.28	680.16	693.11	703.77	699.42	679.46
685.40	657.87	689.45	659.35	693.17	616.57	699.43	659.91
685.41	648.10	689.47	657.87	693.20	663.27	699.52	619.54
685.43	668.30	689.52	660.58	693.21	660.11	699.57	708.30
685.50	643.36	689.62	656.57	693.25	693.04	699.63	661.38
685.51	655.78	689.65	645.42	693.32	704.56	699.66	720.28
685.52	656.84	689.69	674.39	693.40	673.55	699.96	672.74
685.56	604.45	689.82	618.84	693.57	660.75	699.97	672.61
685.60	657.61	689.88	659.71	693.58	635.47	700.00	660.91
685.69	631.96	690.13	657.21	693.61	675.58	700.03	700.24
685.76	616.18	690.40	656.78	693.80	708.16	700.20	674.92
685.79	691.54	690.45	675.09	693.86	697.17	700.37	675.58
685.81	658.32	690.63	617.21	693.99	688.39	700.55	662.38
685.92	601.26	690.71	675.37	694.28	700.08	700.64	672.12
686.21	657.91	690.73	615.14	694.40	603.20	700.74	610.96
686.25	654.16	690.79	703.22	694.46	706.23	700.76	673.06
686.29	656.73	690.91	616.66	694.55	699.26	700.88	667.25
686.31	672.64	690.92	689.20	694.88	688.25	701.13	704.36
686.34	617.70	691.01	616.27	694.91	686.60	701.16	613.32
686.36	694.04	691.08	701.78	695.00	662.19	701.18	708.76
686.41	648.93	691.11	641.73	695.03	660.39	701.24	614.55
686.51	657.80	691.13	702.27	695.15	658.33	701.35	677.03
686.53	616.14	691.32	660.18	695.24	718.37	701.51	664.60
686.57	671.39	691.34	606.14	695.41	674.59	701.82	687.44
686.60	700.75	691.37	675.46	695.42	701.55	701.86	660.50
686.63	650.91	691.39	616.63	695.59	660.06	701.90	711.42
686.64	615.49	691.43	605.12	695.67	674.85	702.28	663.06
686.66	617.80	691.52	661.07	695.78	661.56	702.44	659.31
686.68	660.49	691.53	701.43	696.00	705.83	702.47	662.87
686.70	656.32	691.57	670.89	696.20	560.30	702.50	660.77
686.75	619.58	691.60	656.64	696.24	674.50	702.60	692.77
686.81	626.48	691.61	616.87	696.25	673.75	702.74	659.15
686.89	676.14	691.64	619.14	696.31	672.19	703.09	699.84
687.06	616.22	691.70	606.89	696.42	619.16	703.13	674.62
687.12	657.28	691.78	707.14	696.51	705.84	703.17	674.77
687.22	617.57	691.79	657.94	696.62	662.51	703.29	692.87
687.25	691.55	691.94	694.92	696.68	719.36	703.32	709.89
687.43	616.73	692.00	660.46	696.69	677.06	703.35	675.14
687.56	655.57	692.06	561.53	697.12	673.51	703.61	661.59
687.58	702.34	692.07	660.11	697.29	678.78	703.63	621.37
687.60	699.26	692.10	606.25	697.45	657.51	703.89	723.53
687.66	654.88	692.17	659.64	697.55	704.43	704.01	703.42
687.67	686.54	692.18	606.95	697.73	609.80	704.41	709.98
687.82	700.76	692.19	616.73	697.77	706.76	704.48	681.75
687.90	673.73	692.35	702.96	697.84	720.10	704.52	711.04
688.01	670.77	692.37	660.15	698.05	719.21	704.64	709.92
688.02	657.70	692.38	705.55	698.27	610.49	704.75	671.99
688.15	614.42	692.43	615.44	698.38	662.32	704.84	724.79
688.16	679.46	692.44	660.60	698.46	664.29	705.09	676.42
688.19	675.74	692.51	617.61	698.48	708.10	705.37	724.55
688.42	603.24	692.52	619.77	698.49	708.00	705.44	664.91
688.46	616.25	692.54	604.09	698.55	661.12	705.47	662.36
688.51	658.11	692.74	698.50	698.68	681.39	705.58	617.69
688.62	615.47	692.81	657.05	698.81	676.79	705.62	708.92
688.77	688.85	692.85	615.34	698.83	662.30	705.74	673.62
688.78	618.92	692.88	653.13	698.84	674.14	705.77	675.43
688.85	605.27	692.93	658.95	698.86	658.12	705.91	665.97
688.93	655.85	692.94	658.37	698.98	656.19	706.04	719.33
689.04	655.66	693.02	615.93	699.29	699.97	706.31	620.50
689.16	618.41	693.08	619.13	699.40	679.74	706.44	713.12

PCAP score	New score	PCAP score	New score	PCAP score	New score	PCAP score	New score
706.45	664.80	713.26	687.44	720.48	682.20	733.09	725.14
706.56	725.31	713.34	717.30	720.49	668.28	733.99	685.99
707.38	712.96	713.40	661.30	721.21	679.69	734.20	716.86
707.84	708.09	713.41	680.72	722.02	736.92	734.23	675.52
707.94	714.09	713.55	710.58	722.13	682.53	734.25	735.24
708.10	618.38	713.56	675.68	722.20	708.87	734.60	674.79
708.15	618.02	713.75	715.93	722.21	667.61	734.84	675.88
708.21	665.28	713.91	563.88	722.39	676.46	735.30	686.06
708.31	664.45	714.07	688.19	722.45	670.44	737.81	677.73
708.32	614.46	714.21	667.89	722.51	677.57	738.56	681.56
708.45	617.39	714.77	666.73	722.71	678.99	738.70	682.45
708.61	661.87	714.78	680.64	722.77	682.03	738.76	686.44
708.68	665.70	714.81	675.06	722.80	678.50	738.93	688.24
708.73	703.92	715.16	669.03	722.89	672.01	739.70	673.15
708.77	666.56	715.19	667.87	722.93	678.92	741.29	742.75
708.85	619.30	715.32	663.88	722.99	736.74	741.41	681.83
708.87	700.86	715.69	702.92	723.41	681.15	741.56	676.12
709.00	710.45	716.01	688.91	723.48	669.11	741.64	703.04
709.05	663.83	716.11	718.24	723.65	624.46	741.74	682.81
709.13	665.87	716.14	666.86	723.80	621.27	742.08	678.77
709.14	693.49	716.68	680.95	723.93	624.92	742.18	687.81
709.18	663.05	716.76	676.91	724.72	679.19	742.65	673.37
709.23	663.79	716.77	664.44	724.78	723.64	743.09	735.69
709.35	622.01	716.93	705.71	724.88	677.91	743.11	680.89
709.41	715.15	717.03	727.15	725.00	672.14	743.39	680.47
709.94	617.62	717.28	711.32	725.48	579.66	743.48	690.49
710.08	693.34	717.34	718.97	725.58	721.76	743.87	680.13
710.09	618.29	717.49	678.47	725.62	710.75	743.98	736.67
710.14	708.14	717.99	677.75	726.47	625.85	744.76	736.78
710.25	658.19	718.20	634.92	726.52	621.94	745.08	676.01
710.30	621.61	718.31	676.49	726.84	626.16	745.15	688.59
710.37	617.29	718.39	680.87	726.86	671.81	746.04	677.81
710.39	660.62	718.40	719.05	726.89	667.58	746.41	737.98
711.26	715.05	718.48	714.23	727.30	684.90	747.80	636.96
711.39	664.91	718.50	666.81	727.39	723.71	748.46	730.30
711.48	715.61	718.58	681.50	727.48	671.47	751.07	681.49
711.52	620.00	718.64	668.84	727.94	740.40	758.82	452.36
711.59	664.13	718.97	668.81	728.21	621.44	760.60	756.12
711.62	697.57	719.05	670.09	728.57	630.14	761.87	689.16
712.08	716.18	719.37	682.47	728.87	472.71	762.23	690.39
712.24	666.89	719.42	669.17	729.17	703.04	763.62	684.91
712.32	668.12	719.43	668.92	729.81	720.12	763.68	693.84
712.35	666.19	719.44	677.71	730.04	674.57	763.77	687.88
712.37	702.26	719.53	669.97	730.38	671.38	763.99	693.90
712.41	397.75	719.67	720.47	730.56	741.62	764.17	692.56
712.61	666.50	719.71	677.49	730.87	673.01	774.40	756.12
712.77	667.63	719.76	683.01	731.41	674.31	785.83	700.08
712.86	667.78	719.87	679.24	731.42	727.48		
713.18	667.54	720.41	711.99	731.88	717.92		

## Appendix I

## Score Conversion Tables from Equipercentile Method – Mathematics as Major Domains

PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40
195.40	221.01	195.07	272.10	275.12	266.47	294.70	288.64	288.28
200.50	221.13	199.51	272.60	275.14	267.06	294.80	289.29	288.36
212.20	221.25	208.40	273.00	275.56	267.88	294.90	290.18	288.43
214.80	221.37	213.62	273.70	276.33	268.64	295.50	290.52	288.49
215.20	221.49	214.97	274.10	279.08	269.33	295.70	290.57	288.56
219.80	221.61	216.51	275.10	280.75	270.31	296.20	290.61	288.63
222.10	221.73	220.16	275.20	281.37	271.00	296.50	290.66	288.70
222.40	221.85	222.11	275.90	281.68	271.35	296.60	290.72	289.02
225.40	221.97	222.37	276.50	282.49	271.93	297.10	290.75	289.23
226.40	222.09	224.70	276.80	283.80	272.41	297.30	290.79	289.32
227.70	222.11	226.04	277.40	283.81	272.80	297.50	290.83	289.74
228.60	222.13	227.06	277.50	283.84	273.25	297.80	290.88	289.94
229.60	222.15	228.04	277.90	283.88	273.79	298.00	290.93	290.03
230.40	222.16	228.85	278.20	283.89	274.20	298.50	290.98	290.18
231.30	222.18	229.69	279.90	283.92	275.07	299.30	291.03	290.56
232.50	222.21	230.39	280.30	283.96	275.18	300.10	291.07	291.07
232.60	222.22	231.17	280.60	283.98	275.70	300.50	291.12	291.63
233.80	222.24	232.17	280.90	284.00	276.25	300.90	291.56	291.92
235.40	222.29	232.56	281.30	284.02	276.64	301.60	292.13	292.17
236.40	222.51	233.16	281.40	284.11	276.99	301.70	292.68	292.52
239.60	223.71	234.34	282.30	284.34	277.42	302.20	293.05	293.01
242.20	252.46	235.61	282.90	284.58	277.53	302.30	293.07	293.08
244.30	260.54	236.65	283.10	284.77	277.87	302.40	293.09	293.40
244.50	264.70	239.43	283.70	285.80	278.14	302.50	293.12	293.67
246.00	265.06	241.73	283.90	286.03	279.35	302.90	293.21	293.81
247.20	265.42	243.64	284.20	286.07	280.12	303.20	293.30	293.89
248.70	265.90	244.41	284.50	286.10	280.42	303.30	293.88	294.40
251.30	267.10	245.14	284.60	286.19	280.69	303.50	294.75	294.65
251.90	269.61	246.36	285.30	286.38	280.96	303.60	295.22	294.73
253.00	273.91	247.45	286.00	287.06	281.30	304.00	295.34	294.81
253.10	273.93	248.80	286.10	287.71	281.39	304.10	295.46	294.89
253.60	273.94	251.06	286.40	287.72	282.09	304.50	295.51	295.31
254.10	273.96	251.77	287.00	287.74	282.68	304.70	295.55	295.60
254.30	273.97	252.61	287.50	287.75	283.00	304.80	295.59	295.84
254.80	273.99	253.05	287.90	287.77	283.32	304.90	295.88	296.23
255.00	274.01	253.29	288.30	287.78	283.75	305.20	297.40	296.47
256.90	274.02	253.73	288.40	287.80	283.93	305.50	297.48	296.57
258.80	274.04	254.13	288.50	287.82	284.09	305.60	297.65	296.86
259.70	274.05	254.30	288.60	287.84	284.25	306.30	297.76	297.17
259.80	274.07	254.73	288.70	287.85	284.41	306.40	299.82	297.33
260.40	274.09	254.95	289.20	287.87	284.52	306.80	300.84	297.49
260.60	274.11	256.16	289.30	287.89	284.58	307.10	301.08	297.73
262.70	274.15	257.81	289.90	287.91	284.82	307.20	301.36	297.91
264.00	274.19	259.11	290.00	287.92	285.20	307.80	301.63	298.19
265.00	274.23	259.72	290.20	287.94	285.59	307.90	301.98	298.64
265.20	274.27	259.85	290.80	287.95	285.97	308.00	302.26	299.28
265.90	274.31	260.38	291.60	287.97	286.05	308.10	302.30	299.93
266.00	274.35	260.57	292.00	287.99	286.13	308.20	302.34	300.33
266.60	274.39	262.07	292.30	288.01	286.30	308.50	302.37	300.65
267.30	274.43	263.44	293.00	288.02	286.55	308.60	302.42	301.02
268.40	274.49	264.44	293.10	288.04	286.91	308.70	302.47	301.58
269.00	274.57	265.06	293.60	288.06	287.22	308.90	302.53	301.68
270.20	274.70	265.33	293.80	288.08	287.53	309.20	302.62	301.97
271.00	274.93	265.91	293.90	288.45	287.77	309.30	302.75	302.23
271.40	275.11	265.99	294.60	288.58	288.03	309.50	303.07	302.31

PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40
309.60	303.74	302.39	321.60	312.81	312.39	332.10	322.77	321.95
310.20	304.02	302.46	321.90	313.21	312.48	332.20	322.77	322.02
310.30	304.76	302.66	322.00	313.39	312.64	332.90	322.78	322.13
310.50	304.94	302.95	322.20	313.42	312.76	333.10	322.79	322.28
311.00	305.39	303.17	322.60	313.44	312.90	333.60	322.79	322.49
311.10	305.49	303.26	322.70	313.78	313.04	333.70	322.80	322.63
311.20	305.52	303.38	322.80	313.98	313.13	333.80	322.80	322.68
311.30	305.53	303.51	322.90	314.02	313.24	333.90	322.80	322.73
311.50	305.54	303.58	323.30	314.04	313.41	334.10	322.81	322.79
311.90	305.56	303.83	323.40	314.05	313.50	334.30	322.81	322.84
312.00	305.58	304.03	323.50	314.17	313.95	334.40	322.82	322.89
312.10	305.68	304.10	323.60	314.43	314.08	334.50	322.82	323.08
312.30	305.89	304.37	323.70	314.78	314.17	334.60	322.83	323.30
312.40	305.96	304.58	324.00	314.93	314.61	334.80	322.83	323.36
312.50	305.99	304.71	324.20	314.95	314.95	335.00	322.83	323.41
312.70	306.01	304.77	324.30	314.98	315.07	335.10	322.83	323.47
312.80	306.05	304.84	324.40	315.04	315.23	335.20	322.84	323.53
313.00	306.10	304.92	324.50	315.10	315.35	335.30	322.84	323.59
313.10	306.13	305.12	324.70	315.21	315.61	335.80	322.85	323.65
313.20	306.17	305.32	324.90	315.27	315.69	335.90	322.87	323.73
313.40	306.19	305.51	325.00	315.48	315.87	336.00	323.28	323.92
313.50	306.26	305.57	325.10	315.87	316.11	336.60	323.47	324.07
314.00	306.30	305.87	325.30	316.18	316.32	336.70	323.60	324.20
314.10	306.31	306.30	325.50	316.25	316.45	336.80	324.00	324.27
314.20	306.31	306.37	325.80	316.39	316.53	336.90	324.08	324.34
314.90	306.32	306.55	325.90	316.45	316.73	337.00	324.11	324.41
315.00	306.32	306.82	326.00	316.55	317.21	337.40	324.15	324.48
315.20	306.33	307.02	326.50	316.93	317.30	337.50	324.22	324.59
315.30	306.33	307.14	326.60	317.28	317.38	338.00	324.25	324.74
315.60	306.34	307.28	326.70	317.32	317.47	338.20	324.31	324.88
315.70	306.34	307.71	326.80	317.46	317.61	338.30	324.46	324.96
315.90	306.35	307.86	326.90	317.54	317.78	338.40	324.65	325.04
316.20	306.35	307.93	327.00	317.63	317.92	338.50	324.77	325.13
316.40	306.79	308.01	327.10	317.81	318.01	338.80	324.93	325.28
316.50	308.06	308.08	327.30	318.07	318.09	338.90	325.03	325.43
316.60	308.12	308.16	327.50	318.37	318.17	339.00	325.22	325.63
317.20	308.37	308.31	327.80	318.55	318.36	339.10	325.32	325.82
317.30	308.81	308.52	328.10	318.89	318.61	339.20	325.41	325.90
317.40	309.42	308.60	328.20	318.98	318.82	339.50	325.45	325.98
317.50	309.57	308.68	328.30	319.10	318.90	339.60	325.48	326.30
317.70	309.63	308.82	328.60	319.29	318.98	339.80	325.59	326.54
317.90	309.79	309.02	328.80	319.38	319.27	339.90	325.90	326.62
318.00	310.31	309.22	328.90	319.42	319.53	340.00	325.98	326.71
318.10	310.43	309.31	329.00	319.50	319.61	340.10	326.21	326.79
318.20	310.46	309.48	329.40	319.52	319.69	340.50	326.62	326.87
318.50	310.48	309.58	329.70	320.08	320.06	340.60	326.74	326.95
318.80	310.62	309.96	329.80	320.79	320.33	340.80	326.93	327.04
318.90	310.92	310.25	330.00	320.87	320.42	340.90	327.07	327.15
319.00	311.17	310.36	330.10	321.12	320.56	341.10	327.23	327.32
319.50	311.90	310.59	330.40	321.36	320.70	341.30	327.46	327.49
319.60	312.21	311.01	330.50	321.89	320.86	341.40	328.10	327.74
319.70	312.31	311.09	330.70	322.00	321.07	341.70	328.19	327.99
320.30	312.36	311.18	330.90	322.15	321.16	341.80	328.25	328.15
320.40	312.37	311.27	331.10	322.33	321.22	342.10	328.49	328.24
320.60	312.38	311.41	331.20	322.64	321.29	342.20	328.88	328.37
320.80	312.40	311.68	331.40	322.75	321.35	342.30	329.09	328.62
321.10	312.42	311.93	331.50	322.75	321.43	342.40	329.73	328.80
321.20	312.54	312.02	331.70	322.76	321.55	342.60	329.78	328.88
321.30	312.72	312.12	331.90	322.76	321.71	342.70	329.80	328.97
321.40	312.75	312.30	332.00	322.76	321.89	342.80	329.87	329.24

PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40
342.90	330.01	329.54	352.20	337.43	338.63	360.00	345.70	346.15
343.00	330.47	329.73	352.30	337.47	338.82	360.10	346.22	346.23
343.20	330.57	329.84	352.40	337.51	338.90	360.30	346.52	346.38
343.40	330.62	330.01	352.50	337.66	338.97	360.50	346.62	346.70
343.70	330.71	330.10	352.80	337.92	339.05	360.60	346.69	346.79
343.80	330.92	330.35	352.90	338.15	339.13	360.70	346.71	346.87
343.90	331.15	330.47	353.00	338.30	339.22	360.80	346.73	347.14
344.00	331.32	330.61	353.10	338.40	339.46	360.90	346.84	347.44
344.20	331.42	330.79	353.20	338.45	339.56	361.00	347.16	347.63
344.40	331.45	330.96	353.30	338.86	339.69	361.10	347.47	347.72
344.50	331.76	331.12	353.50	338.90	339.82	361.30	347.62	347.80
344.60	331.86	331.21	353.60	338.93	339.90	361.40	347.68	347.89
344.70	331.89	331.38	353.70	338.98	339.98	361.50	347.74	347.97
344.80	331.92	331.48	353.80	339.19	340.06	361.60	347.86	348.17
344.90	331.93	331.62	353.90	339.56	340.26	361.70	348.26	348.34
345.00	331.95	331.79	354.00	339.69	340.52	361.80	348.45	348.43
345.20	332.19	331.93	354.10	339.80	340.60	361.90	348.61	348.53
345.30	333.00	332.01	354.30	339.87	340.76	362.10	348.67	348.70
345.40	333.43	332.10	354.60	339.92	340.86	362.30	348.72	348.78
345.50	333.52	332.18	354.70	339.99	340.98	362.40	348.77	348.87
345.70	333.58	332.66	354.80	340.05	341.14	362.50	348.97	349.01
346.10	333.64	333.00	354.90	340.27	341.30	362.60	349.14	349.14
346.20	333.82	333.26	355.10	340.54	341.38	362.80	349.19	349.23
346.30	334.13	333.61	355.30	340.59	341.59	362.90	349.26	349.31
346.70	334.33	333.69	355.40	340.84	341.74	363.20	349.90	349.40
346.80	334.38	333.78	355.50	341.22	341.87	363.30	350.17	349.81
346.90	334.42	333.86	355.60	341.35	342.11	363.40	350.28	349.97
347.30	334.45	333.97	355.70	341.43	342.19	363.50	350.46	350.05
347.60	334.51	334.13	355.80	341.64	342.27	363.70	350.53	350.14
347.70	334.87	334.29	355.90	341.97	342.35	363.90	350.60	350.27
347.80	335.03	334.37	356.10	342.16	342.47	364.00	350.82	350.51
347.90	335.05	334.45	356.20	342.37	342.62	364.10	350.93	350.59
348.00	335.05	334.53	356.30	342.58	342.70	364.40	350.96	350.68
348.30	335.06	334.61	356.50	342.62	342.78	364.50	350.99	350.77
348.40	335.07	334.77	356.60	342.64	342.86	364.60	351.03	350.85
348.50	335.08	334.92	356.70	342.76	342.95	364.70	351.17	350.94
348.70	335.08	335.04	356.80	342.80	343.06	364.80	351.43	351.04
348.80	335.09	335.11	356.90	342.84	343.22	364.90	351.52	351.21
348.90	335.09	335.19	357.00	343.13	343.39	365.00	351.57	351.38
349.10	335.10	335.26	357.10	343.20	343.64	365.20	351.59	351.48
349.20	335.11	335.48	357.20	343.31	343.76	365.30	351.61	351.56
349.30	335.12	335.81	357.40	343.42	343.85	365.40	351.63	351.65
349.40	335.13	335.88	357.50	343.53	343.93	365.50	351.91	351.76
349.90	335.13	335.96	357.70	343.63	344.03	365.60	352.26	351.92
350.00	335.14	336.20	357.80	343.77	344.19	365.70	352.35	352.00
350.10	335.15	336.61	357.90	343.88	344.36	366.00	352.38	352.17
350.20	335.26	336.68	358.00	343.94	344.46	366.20	352.40	352.27
350.50	335.29	336.76	358.20	343.95	344.55	366.30	352.50	352.36
350.60	335.38	336.83	358.40	343.98	344.63	366.40	352.88	352.44
350.70	335.53	336.91	358.50	344.02	344.72	366.50	352.92	352.58
350.80	335.96	336.98	358.60	344.31	344.80	366.60	352.96	352.81
350.90	336.05	337.23	358.80	344.42	344.89	366.70	352.97	352.90
351.00	336.17	337.43	359.00	344.47	344.97	366.80	353.01	352.98
351.20	336.29	337.55	359.20	344.65	345.11	367.00	353.06	353.07
351.40	336.69	337.93	359.30	344.81	345.24	367.10	353.14	353.15
351.50	336.82	338.12	359.40	345.19	345.32	367.20	353.27	353.24
351.60	337.21	338.24	359.50	345.36	345.41	367.50	353.34	353.34
351.70	337.31	338.31	359.60	345.40	345.49	367.60	353.41	353.51
351.90	337.36	338.39	359.70	345.42	345.66	367.70	353.44	353.59
352.00	337.40	338.47	359.80	345.43	345.96	367.80	353.51	353.68

PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40
367.90	353.68	353.76	375.70	360.84	360.63	383.10	367.65	367.57
368.00	353.74	353.85	375.80	360.98	360.72	383.20	367.68	367.66
368.10	353.77	353.93	375.90	361.04	360.80	383.30	367.70	367.74
368.30	353.81	354.02	376.10	361.07	360.89	383.40	367.75	367.83
368.40	353.84	354.10	376.20	361.09	360.98	383.50	367.86	367.92
368.50	353.86	354.27	376.30	361.14	361.07	383.60	368.00	368.00
368.60	353.95	354.51	376.40	361.22	361.21	383.70	368.06	368.09
368.70	354.40	354.66	376.50	361.36	361.34	383.90	368.09	368.25
368.80	354.68	354.74	376.60	361.51	361.43	384.00	368.18	368.36
369.20	354.71	354.83	376.70	361.57	361.52	384.10	368.29	368.45
369.30	354.73	354.92	376.90	361.64	361.60	384.20	368.45	368.54
369.40	354.85	355.09	377.10	361.69	361.69	384.30	368.71	368.62
369.50	355.21	355.27	377.20	361.75	361.78	384.40	368.92	368.71
369.60	355.42	355.37	377.30	361.85	361.87	384.50	369.09	368.80
369.70	355.46	355.45	377.40	362.02	362.01	384.70	369.23	369.13
369.90	355.54	355.54	377.50	362.10	362.18	384.90	369.25	369.27
370.10	355.61	355.62	377.60	362.19	362.33	385.00	369.34	369.36
370.20	355.66	355.71	377.70	362.34	362.42	385.10	369.55	369.44
370.30	355.70	355.80	378.00	362.47	362.50	385.20	369.60	369.53
370.40	355.72	355.88	378.10	362.50	362.59	385.30	369.62	369.62
370.70	355.73	356.03	378.20	362.53	362.76	385.40	369.63	369.71
370.90	355.74	356.15	378.30	362.55	362.87	385.50	369.65	369.88
371.00	355.78	356.24	378.40	362.65	363.06	385.70	369.79	370.05
371.10	355.84	356.35	378.50	363.08	363.24	385.80	369.98	370.16
371.30	355.90	356.51	378.70	363.26	363.33	385.90	370.09	370.25
371.40	355.99	356.60	378.80	363.42	363.42	386.00	370.14	370.34
371.60	356.12	356.68	378.90	363.53	363.51	386.30	370.18	370.47
371.70	356.56	356.77	379.00	363.66	363.68	386.40	370.23	370.72
371.80	356.77	356.85	379.20	363.82	363.86	386.50	370.30	370.90
371.90	356.86	356.94	379.30	363.92	363.97	386.60	370.39	370.99
372.00	357.06	357.03	379.40	363.98	364.05	386.70	370.60	371.07
372.20	357.07	357.11	379.50	364.42	364.22	386.80	370.86	371.22
372.30	357.09	357.20	379.60	364.57	364.43	387.00	370.96	371.35
372.40	357.12	357.37	379.70	364.64	364.52	387.10	371.01	371.47
372.50	357.14	357.47	379.80	364.70	364.60	387.20	371.05	371.62
372.60	357.34	357.61	380.00	364.74	364.69	387.30	371.11	371.71
372.70	357.51	357.74	380.20	364.81	364.78	387.40	371.40	371.80
372.80	357.66	357.83	380.30	364.92	364.87	387.50	371.66	371.88
373.00	357.79	357.92	380.40	365.21	364.95	387.60	371.72	371.97
373.20	357.87	358.00	380.50	365.31	365.08	387.80	371.78	372.12
373.30	357.96	358.18	380.80	365.40	365.23	388.10	371.89	372.25
373.40	358.25	358.35	381.00	365.49	365.32	388.20	372.07	372.33
373.50	358.43	358.46	381.10	365.62	365.40	388.30	372.23	372.42
373.60	358.49	358.55	381.20	366.04	365.49	388.40	372.29	372.51
373.70	358.58	358.67	381.30	366.19	365.58	388.50	372.39	372.60
374.00	358.74	358.85	381.40	366.26	365.66	388.60	372.44	372.68
374.10	358.99	359.02	381.50	366.32	365.86	388.80	372.46	372.77
374.20	359.22	359.19	381.60	366.38	366.08	388.90	372.59	372.92
374.30	359.24	359.28	381.80	366.46	366.23	389.00	372.76	373.10
374.40	359.27	359.37	381.90	366.53	366.31	389.10	372.79	373.24
374.50	359.30	359.46	382.00	366.66	366.40	389.20	372.81	373.33
374.60	359.32	359.54	382.10	366.70	366.49	389.30	372.85	373.41
374.80	359.36	359.63	382.20	366.72	366.57	389.60	373.09	373.50
374.90	359.56	359.72	382.30	366.74	366.66	389.70	373.25	373.59
375.00	359.70	359.81	382.40	366.78	366.75	389.80	373.34	373.68
375.10	359.79	359.99	382.50	366.83	366.87	389.90	373.55	373.90
375.30	359.98	360.08	382.60	366.98	367.02	390.10	373.61	374.06
375.40	360.07	360.24	382.70	367.18	367.11	390.20	373.63	374.15
375.50	360.22	360.41	382.80	367.46	367.20	390.30	373.66	374.23
375.60	360.50	360.54	382.90	367.56	367.45	390.40	374.01	374.32



PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40
390.50	374.12	374.41	397.50	381.18	381.36	404.70	388.10	388.45
390.60	374.16	374.50	397.60	381.31	381.45	404.90	388.17	388.55
390.70	374.21	374.59	397.70	381.43	381.55	405.10	388.24	388.70
390.90	374.36	374.76	398.00	381.53	381.68	405.20	388.32	388.85
391.00	374.40	374.87	398.10	381.58	381.84	405.30	388.49	388.95
391.10	374.42	374.96	398.20	381.70	381.93	405.40	388.64	389.05
391.20	374.46	375.05	398.30	381.83	382.03	405.50	388.79	389.15
391.30	374.57	375.18	398.40	382.01	382.13	405.80	388.85	389.26
391.40	374.94	375.33	398.50	382.10	382.22	405.90	388.90	389.47
391.50	375.05	375.42	398.70	382.14	382.32	406.00	389.00	389.66
391.70	375.25	375.51	398.80	382.19	382.41	406.10	389.11	389.76
391.90	375.37	375.60	398.90	382.24	382.51	406.20	389.60	389.86
392.00	375.47	375.69	399.00	382.38	382.61	406.30	389.75	390.03
392.10	375.61	375.78	399.10	382.57	382.70	406.50	389.82	390.17
392.20	375.77	375.87	399.20	382.68	382.80	406.70	389.97	390.27
392.30	375.81	376.03	399.30	382.72	382.90	406.80	390.20	390.37
392.40	375.85	376.15	399.50	382.75	383.09	406.90	390.49	390.47
392.50	375.87	376.24	399.70	382.80	383.19	407.00	390.63	390.58
392.70	375.89	376.34	399.80	382.90	383.29	407.10	390.69	390.68
392.80	376.06	376.43	399.90	383.17	383.38	407.20	390.87	390.86
392.90	376.28	376.52	400.00	383.28	383.48	407.30	391.01	390.98
393.00	376.33	376.61	400.10	383.31	383.58	407.50	391.07	391.09
393.10	376.34	376.70	400.20	383.34	383.68	407.60	391.31	391.19
393.20	376.36	376.88	400.30	383.36	383.85	407.70	391.47	391.29
393.30	376.39	377.07	400.50	383.47	383.97	407.80	391.52	391.39
393.50	376.50	377.18	400.60	383.67	384.07	408.00	391.56	391.50
393.60	376.62	377.27	400.70	383.95	384.17	408.10	391.60	391.70
393.70	376.68	377.36	400.80	384.01	384.26	408.30	391.80	391.90
393.80	376.77	377.45	400.90	384.05	384.36	408.40	391.94	392.00
394.00	376.88	377.54	401.00	384.07	384.46	408.50	392.06	392.11
394.10	377.04	377.64	401.10	384.09	384.62	408.60	392.21	392.21
394.20	377.17	377.79	401.20	384.13	384.81	408.80	392.36	392.31
394.30	377.25	378.02	401.30	384.26	384.95	408.90	392.45	392.42
394.40	377.47	378.11	401.40	384.42	385.05	409.00	392.53	392.54
394.50	377.53	378.21	401.50	384.65	385.15	409.10	392.77	392.72
394.60	377.73	378.30	401.60	384.85	385.25	409.20	392.85	392.82
394.80	378.03	378.39	401.80	384.92	385.35	409.30	392.93	392.93
394.90	378.11	378.49	401.90	384.96	385.45	409.40	393.02	393.03
395.00	378.16	378.66	402.00	385.03	385.59	409.60	393.10	393.13
395.10	378.29	378.77	402.10	385.26	385.75	409.70	393.15	393.24
395.20	378.51	378.87	402.20	385.36	385.84	409.80	393.18	393.38
395.30	378.76	378.96	402.30	385.49	385.94	409.90	393.24	393.54
395.40	378.80	379.11	402.60	385.75	386.13	410.00	393.46	393.65
395.60	378.85	379.25	402.80	385.84	386.34	410.10	393.62	393.75
395.80	378.98	379.34	402.90	385.92	386.44	410.20	393.66	393.91
395.90	379.30	379.43	403.00	386.37	386.54	410.40	393.75	394.06
396.00	379.50	379.53	403.10	386.54	386.64	410.60	393.88	394.16
396.10	379.61	379.62	403.20	386.59	386.74	410.70	394.09	394.26
396.20	379.68	379.72	403.30	386.62	386.88	410.80	394.41	394.37
396.30	379.71	379.82	403.40	386.64	387.04	410.90	394.56	394.47
396.40	379.73	380.01	403.60	386.66	387.14	411.00	394.60	394.57
396.60	379.85	380.20	403.70	386.77	387.24	411.10	394.67	394.75
396.70	380.28	380.30	403.80	387.11	387.34	411.20	394.76	394.88
396.80	380.42	380.39	403.90	387.17	387.44	411.40	394.93	394.98
396.90	380.47	380.48	404.00	387.21	387.54	411.50	395.18	395.09
397.00	380.70	380.74	404.10	387.25	387.69	411.60	395.36	395.19
397.10	380.90	380.95	404.20	387.35	387.93	411.70	395.49	395.29
397.20	380.96	381.07	404.40	387.47	388.14	411.80	395.70	395.40
397.30	381.04	381.17	404.50	387.59	388.25	411.90	395.79	395.60
397.40	381.10	381.26	404.60	387.78	388.35	412.00	395.82	395.81

PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40
412.10	395.83	395.91	419.30	403.46	403.28	426.40	411.43	411.09
412.20	395.90	396.01	419.40	403.67	403.38	426.50	411.51	411.20
412.30	396.03	396.12	419.50	403.72	403.58	426.60	411.58	411.40
412.40	396.15	396.22	419.70	403.75	403.69	426.70	411.62	411.51
412.50	396.25	396.32	419.80	403.93	403.80	426.80	411.70	411.61
412.70	396.44	396.46	419.90	404.03	403.90	426.90	411.77	411.72
412.80	396.64	396.63	420.00	404.13	404.01	427.00	411.84	411.83
412.90	396.69	396.74	420.10	404.41	404.12	427.10	412.04	411.93
413.00	396.73	396.84	420.20	404.60	404.24	427.20	412.19	412.04
413.10	396.98	396.94	420.30	404.77	404.43	427.30	412.29	412.14
413.20	397.18	397.05	420.50	404.93	404.53	427.50	412.36	412.25
413.50	397.24	397.15	420.60	405.16	404.64	427.70	412.42	412.35
413.60	397.28	397.26	420.70	405.29	404.78	427.80	412.59	412.46
413.70	397.34	397.36	420.80	405.40	404.99	427.90	412.79	412.63
413.80	397.46	397.46	420.90	405.51	405.15	428.00	412.87	412.77
413.90	397.60	397.57	421.00	405.82	405.26	428.10	412.95	412.88
414.00	397.69	397.67	421.10	405.92	405.36	428.30	413.00	412.98
414.10	397.75	397.93	421.30	406.02	405.47	428.40	413.04	413.09
414.30	398.01	398.08	421.50	406.14	405.72	428.50	413.09	413.19
414.50	398.12	398.19	421.60	406.28	405.88	428.60	413.36	413.50
414.60	398.38	398.29	421.70	406.68	405.98	428.70	413.64	413.60
414.70	398.61	398.39	421.80	406.79	406.09	428.80	413.87	413.71
414.80	398.79	398.50	421.90	406.83	406.19	428.90	413.92	413.82
415.00	398.85	398.70	422.00	406.88	406.30	429.10	413.98	413.92
415.10	398.91	398.81	422.10	406.89	406.51	429.30	414.03	414.03
415.30	398.99	398.91	422.30	406.91	406.71	429.40	414.16	414.17
415.40	399.19	399.02	422.40	407.14	406.81	429.50	414.46	414.38
415.50	399.30	399.12	422.50	407.28	406.92	429.60	414.53	414.55
415.60	399.42	399.22	422.60	407.36	407.02	429.70	414.59	414.65
415.70	399.51	399.36	422.70	407.50	407.13	429.80	414.69	414.76
415.80	399.59	399.57	422.80	407.57	407.23	429.90	414.78	414.93
415.90	399.70	399.74	422.90	407.63	407.38	430.10	414.95	415.07
416.00	399.76	399.84	423.10	407.82	407.55	430.20	415.22	415.25
416.10	399.84	399.95	423.20	408.17	407.65	430.30	415.39	415.38
416.20	399.98	400.05	423.30	408.31	407.76	430.40	415.51	415.49
416.30	400.12	400.16	423.40	408.34	407.92	430.50	415.65	415.59
416.40	400.26	400.26	423.60	408.36	408.07	430.60	415.68	415.70
416.60	400.42	400.43	423.70	408.41	408.24	430.70	415.70	415.81
416.70	400.47	400.57	423.80	408.46	408.38	430.80	415.77	415.91
416.80	400.51	400.67	423.90	408.55	408.48	430.90	415.93	416.02
416.90	400.57	400.78	424.00	408.73	408.59	431.00	416.09	416.13
417.00	400.68	400.88	424.10	408.88	408.78	431.10	416.19	416.23
417.10	400.94	400.99	424.20	408.97	408.90	431.20	416.30	416.34
417.20	401.04	401.09	424.40	408.99	409.00	431.40	416.42	416.49
417.40	401.09	401.20	424.50	409.01	409.11	431.50	416.50	416.65
417.60	401.15	401.30	424.60	409.04	409.21	431.60	416.61	416.76
417.70	401.32	401.41	424.70	409.18	409.32	431.70	416.72	416.86
417.80	401.51	401.51	424.80	409.50	409.45	431.80	416.88	416.97
417.90	401.79	401.64	424.90	409.71	409.63	431.90	417.04	417.08
418.00	401.90	401.82	425.00	409.79	409.73	432.00	417.18	417.18
418.10	401.97	401.93	425.20	409.92	409.84	432.20	417.30	417.38
418.20	402.05	402.03	425.40	410.03	409.94	432.40	417.54	417.59
418.40	402.09	402.14	425.50	410.31	410.05	432.50	417.74	417.70
418.50	402.24	402.24	425.60	410.66	410.16	432.60	417.94	417.81
418.60	402.60	402.44	425.70	410.75	410.32	432.70	418.25	417.91
418.70	402.72	402.71	425.80	410.81	410.53	432.80	418.37	418.02
418.80	402.81	402.86	425.90	410.85	410.67	432.90	418.45	418.13
418.90	402.85	402.96	426.00	410.88	410.78	433.00	418.50	418.26
419.00	402.95	403.07	426.20	411.03	410.88	433.20	418.54	418.44
419.20	403.11	403.17	426.30	411.30	410.99	433.30	418.73	418.54

PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40
433.40	419.18	418.65	440.50	426.49	426.17	447.40	433.49	433.51
433.50	419.38	418.76	440.60	426.51	426.29	447.50	433.62	433.62
433.60	419.45	418.86	440.70	426.53	426.40	447.60	433.64	433.72
433.70	419.51	418.97	440.80	426.56	426.50	447.70	433.75	433.86
433.80	419.64	419.15	441.00	426.66	426.61	447.80	433.81	434.04
434.00	419.76	419.28	441.10	426.90	426.71	448.00	433.89	434.14
434.10	419.93	419.39	441.20	427.06	426.82	448.10	434.08	434.25
434.20	420.04	419.49	441.30	427.16	426.92	448.20	434.27	434.41
434.30	420.10	419.70	441.40	427.24	427.03	448.30	434.39	434.56
434.50	420.12	419.81	441.50	427.29	427.13	448.40	434.52	434.67
434.60	420.15	419.91	441.60	427.36	427.24	448.50	434.58	434.78
434.70	420.21	420.02	441.70	427.43	427.38	448.60	434.63	434.88
434.80	420.33	420.12	441.80	427.60	427.59	448.80	434.76	434.99
434.90	420.52	420.23	441.90	427.78	427.75	448.90	434.97	435.10
435.00	420.63	420.37	442.00	427.91	427.86	449.00	435.10	435.30
435.10	420.79	420.54	442.10	428.03	427.96	449.10	435.37	435.41
435.30	420.87	420.65	442.30	428.21	428.07	449.30	435.47	435.52
435.40	420.93	420.75	442.40	428.27	428.24	449.40	435.50	435.62
435.50	421.06	420.86	442.50	428.31	428.38	449.50	435.53	435.73
435.60	421.28	420.97	442.60	428.46	428.48	449.60	435.63	435.84
435.70	421.53	421.07	442.70	428.64	428.59	449.70	435.84	435.99
435.80	421.72	421.25	442.80	428.75	428.69	449.80	436.12	436.21
435.90	421.81	421.47	442.90	428.84	428.80	449.90	436.28	436.36
436.10	421.87	421.59	443.10	428.89	428.90	450.10	436.34	436.47
436.30	421.95	421.69	443.20	428.96	429.11	450.20	436.46	436.57
436.40	422.03	421.80	443.30	429.07	429.31	450.30	436.57	436.68
436.50	422.28	421.91	443.40	429.27	429.42	450.40	436.68	436.79
436.60	422.49	422.01	443.50	429.50	429.52	450.50	436.83	436.90
436.70	422.54	422.13	443.60	429.64	429.63	450.60	437.13	437.10
436.80	422.58	422.32	443.70	429.69	429.73	450.70	437.23	437.21
436.90	422.61	422.43	443.90	429.80	429.84	450.90	437.29	437.32
437.10	422.67	422.53	444.10	429.91	429.99	451.10	437.38	437.43
437.20	422.87	422.64	444.20	430.22	430.15	451.20	437.48	437.53
437.30	423.13	422.74	444.30	430.52	430.25	451.30	437.71	437.64
437.40	423.17	422.85	444.40	430.59	430.36	451.40	437.92	437.80
437.50	423.19	423.01	444.50	430.64	430.46	451.50	437.93	437.96
437.60	423.21	423.16	444.60	430.70	430.57	451.60	437.96	438.06
437.70	423.24	423.27	444.70	430.77	430.68	451.70	437.99	438.17
437.90	423.33	423.37	444.90	430.87	430.78	451.90	438.05	438.36
438.00	423.55	423.55	445.00	430.99	430.89	452.00	438.31	438.49
438.10	423.71	423.68	445.10	431.10	430.99	452.10	438.60	438.59
438.20	423.83	423.79	445.20	431.14	431.10	452.20	438.69	438.70
438.40	423.92	423.89	445.30	431.18	431.21	452.30	438.81	438.81
438.50	423.98	424.00	445.40	431.28	431.41	452.40	438.89	438.92
438.60	424.10	424.10	445.50	431.40	431.51	452.50	438.93	439.05
438.70	424.26	424.22	445.60	431.47	431.62	452.70	439.22	439.23
438.80	424.45	424.41	445.70	431.58	431.73	452.80	439.47	439.34
438.90	424.61	424.52	445.80	431.68	431.83	452.90	439.64	439.45
439.00	424.74	424.62	445.90	431.76	431.94	453.00	439.82	439.55
439.20	424.84	424.73	446.00	431.86	432.09	453.20	440.04	439.66
439.30	424.89	424.83	446.20	432.07	432.30	453.30	440.23	439.77
439.40	424.95	424.94	446.30	432.19	432.45	453.40	440.35	439.95
439.50	425.17	425.09	446.40	432.28	432.56	453.50	440.41	440.17
439.60	425.45	425.30	446.50	432.41	432.67	453.60	440.58	440.29
439.70	425.56	425.46	446.60	432.59	432.77	453.70	440.80	440.40
439.80	425.71	425.56	446.70	432.76	432.88	453.80	441.05	440.51
440.00	425.82	425.67	446.80	432.80	432.98	454.00	441.10	440.61
440.20	425.91	425.77	447.00	432.84	433.18	454.10	441.16	440.72
440.30	426.11	425.88	447.20	432.91	433.30	454.20	441.24	440.85
440.40	426.43	425.98	447.30	433.12	433.40	454.30	441.37	441.03

PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40
454.40	441.53	441.14	461.40	448.28	448.43	468.50	456.23	456.08
454.50	441.69	441.25	461.50	448.47	448.53	468.60	456.35	456.19
454.60	441.73	441.36	461.60	448.55	448.67	468.80	456.40	456.29
454.80	441.82	441.46	461.80	448.66	448.84	468.90	456.44	456.40
455.00	441.88	441.57	462.00	448.81	448.95	469.00	456.48	456.51
455.10	441.95	441.68	462.10	448.94	449.06	469.10	456.54	456.61
455.20	442.05	441.78	462.20	449.16	449.22	469.20	456.78	456.72
455.30	442.17	441.89	462.30	449.40	449.37	469.30	456.89	456.82
455.50	442.24	442.00	462.40	449.50	449.47	469.40	456.94	456.96
455.60	442.33	442.11	462.50	449.59	449.58	469.60	457.06	457.13
455.80	442.47	442.31	462.60	449.68	449.69	469.80	457.16	457.24
455.90	442.60	442.42	462.80	449.75	449.79	469.90	457.37	457.35
456.00	442.76	442.53	462.90	449.84	449.90	470.00	457.62	457.45
456.10	442.81	442.63	463.00	450.23	450.10	470.10	457.71	457.56
456.20	442.88	442.74	463.10	450.29	450.21	470.20	457.86	457.66
456.30	443.07	442.85	463.20	450.32	450.32	470.30	457.94	457.84
456.40	443.18	443.00	463.30	450.35	450.42	470.40	458.00	457.97
456.50	443.24	443.16	463.40	450.41	450.53	470.60	458.13	458.08
456.60	443.31	443.27	463.60	450.54	450.63	470.70	458.30	458.19
456.70	443.48	443.37	463.70	450.83	450.78	470.80	458.41	458.29
456.80	443.60	443.48	463.80	451.04	450.99	470.90	458.45	458.40
456.90	443.68	443.58	463.90	451.22	451.15	471.00	458.50	458.50
457.10	443.77	443.69	464.10	451.27	451.26	471.10	458.66	458.72
457.20	443.80	443.90	464.20	451.31	451.36	471.20	458.82	458.91
457.30	443.85	444.10	464.30	451.37	451.47	471.30	458.89	459.02
457.40	444.09	444.21	464.40	451.47	451.58	471.40	458.97	459.12
457.50	444.23	444.32	464.50	451.61	451.68	471.50	459.08	459.23
457.60	444.34	444.42	464.60	451.95	451.87	471.60	459.15	459.34
457.70	444.45	444.53	464.70	452.12	451.99	471.70	459.24	459.44
457.90	444.48	444.64	464.90	452.18	452.10	471.90	459.30	459.59
458.00	444.55	444.78	465.00	452.25	452.21	472.00	459.37	459.75
458.10	444.66	444.95	465.10	452.33	452.31	472.10	459.44	459.86
458.20	444.78	445.05	465.20	452.43	452.42	472.20	459.58	459.96
458.30	445.10	445.16	465.30	452.59	452.55	472.30	459.85	460.07
458.40	445.41	445.27	465.40	452.79	452.73	472.40	460.02	460.17
458.50	445.51	445.37	465.50	452.87	452.84	472.50	460.15	460.28
458.70	445.62	445.48	465.70	453.03	452.94	472.70	460.21	460.39
458.90	445.71	445.59	465.90	453.17	453.09	472.80	460.30	460.49
459.00	445.86	445.69	466.00	453.25	453.25	472.90	460.38	460.60
459.10	446.13	445.80	466.10	453.45	453.36	473.00	460.50	460.70
459.20	446.21	445.90	466.20	453.64	453.47	473.10	460.71	460.81
459.30	446.24	446.02	466.30	453.66	453.57	473.20	461.04	461.01
459.40	446.29	446.22	466.40	453.71	453.68	473.30	461.12	461.12
459.50	446.37	446.32	466.50	453.79	453.78	473.50	461.24	461.22
459.70	446.52	446.43	466.70	453.99	453.98	473.70	461.38	461.33
459.80	446.68	446.54	466.80	454.16	454.10	473.80	461.59	461.43
459.90	446.84	446.64	466.90	454.28	454.20	473.90	462.07	461.54
460.00	447.06	446.75	467.00	454.32	454.31	474.00	462.13	461.69
460.10	447.21	446.91	467.10	454.36	454.41	474.10	462.18	461.90
460.20	447.29	447.12	467.20	454.41	454.52	474.20	462.24	462.05
460.30	447.35	447.27	467.30	454.48	454.65	474.30	462.30	462.16
460.40	447.39	447.37	467.50	454.81	454.86	474.50	462.48	462.27
460.50	447.45	447.48	467.60	455.15	455.04	474.60	462.66	462.37
460.60	447.58	447.58	467.70	455.32	455.14	474.70	462.82	462.48
460.70	447.66	447.69	467.80	455.54	455.25	474.80	462.87	462.58
460.80	447.72	447.80	468.00	455.68	455.41	474.90	462.90	462.77
461.00	447.79	448.00	468.10	455.79	455.56	475.00	462.93	462.89
461.10	447.91	448.11	468.20	455.84	455.73	475.10	462.98	463.00
461.20	448.04	448.21	468.30	455.95	455.87	475.20	463.06	463.10
461.30	448.15	448.32	468.40	456.10	455.98	475.30	463.15	463.21

PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40
475.40	463.22	463.31	482.50	470.45	470.77	489.60	477.90	477.97
475.50	463.34	463.43	482.60	470.65	470.88	489.70	477.94	478.08
475.60	463.55	463.62	482.80	470.78	470.98	489.80	477.99	478.18
475.80	463.64	463.73	482.90	470.85	471.09	489.90	478.07	478.38
475.90	463.68	463.83	483.00	470.89	471.19	490.00	478.14	478.49
476.00	463.74	463.97	483.10	470.96	471.30	490.10	478.39	478.60
476.10	463.83	464.14	483.20	471.15	471.40	490.20	478.54	478.71
476.20	464.09	464.24	483.30	471.47	471.50	490.30	478.61	478.91
476.30	464.27	464.35	483.40	471.61	471.61	490.40	478.67	479.02
476.40	464.41	464.45	483.60	471.65	471.73	490.60	478.77	479.12
476.60	464.46	464.56	483.70	471.70	471.92	490.70	478.94	479.23
476.80	464.54	464.66	483.80	471.81	472.02	490.80	479.03	479.33
476.90	464.64	464.84	483.90	471.95	472.13	490.90	479.17	479.44
477.00	465.05	464.97	484.00	472.20	472.23	491.00	479.37	479.59
477.10	465.25	465.08	484.10	472.39	472.34	491.10	479.55	479.75
477.20	465.36	465.18	484.20	472.47	472.44	491.20	479.71	479.86
477.30	465.42	465.29	484.40	472.62	472.59	491.40	479.76	479.96
477.40	465.49	465.39	484.60	472.73	472.75	491.60	479.87	480.07
477.60	465.66	465.50	484.70	472.96	472.86	491.70	480.01	480.18
477.70	466.06	465.70	484.80	473.11	472.96	491.80	480.14	480.28
477.80	466.22	465.90	484.90	473.14	473.07	491.90	480.30	480.47
477.90	466.28	466.01	485.00	473.17	473.17	492.00	480.38	480.69
478.00	466.34	466.11	485.10	473.26	473.28	492.10	480.53	480.80
478.10	466.38	466.22	485.20	473.35	473.46	492.20	480.69	480.91
478.20	466.41	466.32	485.40	473.67	473.67	492.40	480.75	481.01
478.40	466.54	466.43	485.50	473.89	473.79	492.50	480.98	481.12
478.50	466.83	466.56	485.60	473.97	473.89	492.60	481.26	481.22
478.60	466.95	466.73	485.70	474.02	474.00	492.70	481.39	481.36
478.70	467.00	466.84	485.80	474.06	474.10	492.80	481.56	481.54
478.90	467.04	466.94	485.90	474.15	474.21	492.90	481.64	481.64
479.00	467.08	467.05	486.00	474.21	474.33	493.00	481.70	481.75
479.10	467.16	467.15	486.10	474.27	474.52	493.20	481.84	481.85
479.20	467.26	467.26	486.20	474.41	474.62	493.30	482.01	481.96
479.30	467.42	467.42	486.30	474.59	474.73	493.40	482.12	482.07
479.40	467.60	467.56	486.40	474.71	474.83	493.50	482.32	482.25
479.50	467.77	467.67	486.50	474.81	474.94	493.70	482.43	482.38
479.70	467.80	467.77	486.70	474.87	475.04	493.80	482.47	482.49
479.80	467.86	467.95	486.80	474.94	475.15	493.90	482.50	482.59
479.90	467.97	468.08	486.90	475.00	475.25	494.00	482.58	482.80
480.00	468.11	468.18	487.00	475.11	475.36	494.10	482.85	482.90
480.10	468.36	468.29	487.10	475.24	475.46	494.20	483.01	483.01
480.20	468.48	468.39	487.20	475.42	475.57	494.30	483.08	483.12
480.30	468.56	468.50	487.30	475.51	475.75	494.50	483.15	483.22
480.50	468.67	468.60	487.50	475.66	475.88	494.60	483.19	483.33
480.70	468.74	468.81	487.70	475.83	475.99	494.70	483.25	483.47
480.80	468.83	468.91	487.80	476.02	476.09	494.80	483.34	483.64
480.90	468.94	469.01	487.90	476.19	476.20	494.90	483.67	483.75
481.00	469.00	469.12	488.00	476.28	476.30	495.00	483.81	483.85
481.10	469.02	469.22	488.10	476.30	476.41	495.10	483.85	483.96
481.20	469.05	469.33	488.30	476.37	476.62	495.30	483.98	484.07
481.30	469.12	469.46	488.50	476.51	476.82	495.50	484.10	484.17
481.50	469.18	469.67	488.60	476.85	476.92	495.60	484.20	484.36
481.60	469.33	469.84	488.70	477.05	477.03	495.70	484.55	484.57
481.70	469.61	469.94	488.80	477.13	477.13	495.80	484.76	484.69
481.80	469.80	470.05	488.90	477.18	477.24	495.90	484.80	484.80
481.90	469.88	470.15	489.00	477.24	477.34	496.00	484.84	484.90
482.00	469.94	470.26	489.10	477.29	477.50	496.10	484.88	485.01
482.10	470.01	470.36	489.30	477.43	477.65	496.30	484.91	485.12
482.30	470.15	470.53	489.40	477.71	477.76	496.40	485.05	485.25
482.40	470.29	470.67	489.50	477.84	477.87	496.50	485.39	485.43

PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40
496.60	485.50	485.54	503.70	493.01	492.90	510.70	500.53	500.40
496.70	485.53	485.64	503.80	493.14	493.00	510.80	500.59	500.51
496.80	485.59	485.75	503.90	493.25	493.21	510.90	500.65	500.61
496.90	485.64	485.86	504.10	493.38	493.31	511.10	500.69	500.72
497.10	485.76	485.96	504.20	493.53	493.42	511.20	500.95	500.82
497.20	486.01	486.07	504.30	493.73	493.55	511.30	501.20	500.93
497.30	486.19	486.17	504.40	493.81	493.73	511.40	501.24	501.03
497.40	486.28	486.28	504.50	493.87	493.83	511.50	501.28	501.14
497.60	486.34	486.39	504.60	493.93	493.94	511.60	501.33	501.24
497.70	486.41	486.49	504.70	493.98	494.04	511.70	501.42	501.39
497.80	486.48	486.70	504.80	494.03	494.15	511.90	501.62	501.55
497.90	486.63	486.81	504.90	494.17	494.26	512.00	501.81	501.65
498.00	486.81	486.91	505.00	494.36	494.42	512.10	501.97	501.76
498.10	487.04	487.02	505.10	494.54	494.57	512.20	502.07	501.86
498.20	487.19	487.12	505.20	494.65	494.67	512.40	502.16	501.97
498.40	487.23	487.23	505.40	494.73	494.78	512.50	502.31	502.07
498.50	487.30	487.37	505.50	494.82	494.88	512.60	502.49	502.25
498.60	487.53	487.59	505.60	494.88	494.99	512.70	502.61	502.46
498.70	487.75	487.75	505.70	494.97	495.09	512.80	502.74	502.58
498.80	487.97	487.86	505.80	495.39	495.30	512.90	502.89	502.69
498.90	488.09	487.96	505.90	495.63	495.50	513.00	503.04	502.79
499.00	488.17	488.07	506.00	495.68	495.61	513.20	503.11	502.89
499.20	488.41	488.25	506.20	495.75	495.71	513.30	503.18	503.10
499.40	488.53	488.46	506.40	495.84	495.82	513.40	503.27	503.30
499.50	488.73	488.59	506.50	495.91	495.92	513.50	503.38	503.41
499.60	488.98	488.69	506.60	496.09	496.03	513.60	503.57	503.51
499.70	489.07	488.80	506.70	496.37	496.17	513.70	503.73	503.61
499.80	489.15	488.90	506.80	496.41	496.34	513.80	503.78	503.72
499.90	489.29	489.01	506.90	496.45	496.44	514.00	503.84	503.82
500.00	489.34	489.13	507.00	496.56	496.55	514.20	503.98	503.95
500.20	489.46	489.32	507.20	496.60	496.66	514.30	504.24	504.13
500.30	489.63	489.43	507.30	496.71	496.76	514.40	504.48	504.23
500.40	489.80	489.53	507.40	496.93	496.87	514.50	504.54	504.33
500.50	489.85	489.64	507.50	497.10	497.04	514.60	504.57	504.44
500.60	489.89	489.75	507.60	497.13	497.18	514.70	504.61	504.54
500.70	489.97	489.85	507.70	497.17	497.28	514.80	504.66	504.64
500.80	490.05	489.96	507.80	497.20	497.39	515.00	504.90	504.75
500.90	490.09	490.06	508.00	497.31	497.58	515.10	505.06	504.85
501.00	490.16	490.17	508.10	497.63	497.70	515.20	505.22	504.95
501.10	490.28	490.28	508.20	497.79	497.80	515.30	505.35	505.06
501.20	490.39	490.38	508.30	497.86	497.91	515.40	505.39	505.16
501.30	490.57	490.58	508.50	497.91	498.01	515.50	505.41	505.33
501.50	490.66	490.69	508.60	497.94	498.12	515.60	505.43	505.47
501.60	490.69	490.80	508.70	498.03	498.24	515.70	505.45	505.57
501.70	490.74	490.90	508.80	498.16	498.43	515.80	505.60	505.67
501.80	490.82	491.01	508.90	498.44	498.53	515.90	505.72	505.77
501.90	490.96	491.12	509.00	498.63	498.64	516.00	505.83	505.88
502.00	491.15	491.24	509.10	498.73	498.74	516.10	505.96	505.98
502.10	491.29	491.46	509.30	498.77	498.85	516.30	506.10	506.16
502.30	491.36	491.63	509.40	498.83	498.95	516.40	506.26	506.37
502.50	491.47	491.74	509.50	498.93	499.11	516.50	506.37	506.49
502.60	491.69	491.84	509.60	499.16	499.32	516.60	506.48	506.59
502.70	491.90	491.95	509.70	499.53	499.47	516.70	506.60	506.69
502.80	492.09	492.06	509.80	499.67	499.57	516.80	506.82	506.80
502.90	492.15	492.16	509.90	499.78	499.68	516.90	506.99	506.90
503.10	492.30	492.33	510.10	499.86	499.78	517.10	507.23	507.00
503.30	492.44	492.47	510.30	499.95	499.89	517.30	507.35	507.20
503.40	492.64	492.58	510.40	500.06	499.99	517.40	507.47	507.30
503.50	492.88	492.68	510.50	500.37	500.19	517.50	507.66	507.41
503.60	492.96	492.79	510.60	500.48	500.30	517.60	507.84	507.51

PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40
517.70	507.97	507.61	524.70	514.54	514.80	531.70	522.13	522.01
517.90	508.04	507.71	524.90	514.60	515.00	531.90	522.18	522.11
518.10	508.09	507.83	525.10	514.67	515.10	532.10	522.20	522.21
518.20	508.35	508.02	525.20	514.84	515.20	532.20	522.25	522.31
518.30	508.68	508.12	525.30	515.16	515.31	532.30	522.41	522.41
518.40	508.78	508.22	525.40	515.35	515.41	532.40	522.58	522.51
518.50	508.84	508.35	525.50	515.47	515.51	532.50	522.74	522.63
518.60	508.89	508.53	525.60	515.55	515.61	532.70	522.87	522.82
518.70	508.94	508.63	525.70	515.64	515.71	532.90	522.97	522.92
518.90	509.08	508.73	525.90	515.69	515.81	533.00	523.19	523.02
519.00	509.30	508.83	526.00	515.82	515.92	533.10	523.48	523.14
519.10	509.36	508.93	526.10	516.01	516.02	533.20	523.55	523.32
519.20	509.40	509.03	526.20	516.10	516.14	533.30	523.59	523.42
519.30	509.44	509.17	526.30	516.20	516.32	533.40	523.62	523.52
519.40	509.48	509.34	526.40	516.31	516.42	533.50	523.67	523.62
519.50	509.50	509.44	526.50	516.38	516.52	533.70	523.81	523.73
519.60	509.53	509.54	526.70	516.50	516.63	533.80	523.97	523.83
519.70	509.61	509.64	526.80	516.69	516.73	533.90	524.16	523.95
519.80	509.76	509.74	526.90	516.84	516.83	534.00	524.27	524.13
519.90	509.86	509.84	527.00	517.03	516.96	534.10	524.32	524.23
520.00	509.96	509.99	527.20	517.24	517.17	534.20	524.41	524.33
520.20	510.04	510.19	527.30	517.30	517.34	534.30	524.50	524.43
520.30	510.10	510.35	527.40	517.33	517.44	534.40	524.58	524.53
520.40	510.17	510.45	527.50	517.43	517.54	534.50	524.71	524.63
520.50	510.33	510.55	527.60	517.59	517.64	534.60	525.09	524.77
520.60	510.47	510.65	527.70	517.94	517.79	534.70	525.19	524.97
520.70	510.59	510.75	527.80	518.11	517.99	534.80	525.25	525.13
520.80	510.69	510.85	528.00	518.13	518.15	535.00	525.30	525.24
521.00	510.79	511.01	528.10	518.17	518.25	535.10	525.35	525.34
521.20	510.89	511.16	528.20	518.21	518.35	535.20	525.43	525.44
521.30	511.08	511.26	528.30	518.30	518.45	535.30	525.50	525.54
521.40	511.29	511.36	528.40	518.59	518.56	535.40	525.62	525.64
521.50	511.56	511.46	528.50	518.79	518.66	535.50	525.84	525.78
521.60	511.62	511.56	528.60	518.91	518.82	535.60	525.95	525.94
521.70	511.66	511.66	528.80	518.99	518.96	535.80	526.02	526.04
521.80	511.70	511.83	529.00	519.06	519.06	536.00	526.10	526.14
522.00	511.84	511.97	529.10	519.22	519.16	536.10	526.29	526.24
522.10	512.05	512.07	529.20	519.51	519.27	536.20	526.60	526.34
522.20	512.32	512.17	529.30	519.58	519.37	536.30	526.80	526.44
522.30	512.41	512.34	529.40	519.61	519.47	536.40	526.84	526.58
522.40	512.44	512.47	529.50	519.66	519.57	536.50	526.88	526.74
522.50	512.51	512.57	529.60	519.71	519.67	536.60	526.91	526.84
522.60	512.57	512.67	529.80	519.78	519.78	536.80	526.96	526.94
522.80	512.65	512.77	529.90	519.91	519.88	536.90	527.19	527.09
522.90	512.73	512.88	530.00	520.16	519.98	537.00	527.34	527.24
523.00	512.82	512.98	530.10	520.26	520.16	537.10	527.38	527.34
523.10	512.94	513.16	530.20	520.30	520.28	537.20	527.43	527.44
523.30	513.09	513.28	530.30	520.38	520.38	537.30	527.47	527.54
523.40	513.24	513.38	530.40	520.45	520.49	537.40	527.50	527.64
523.50	513.29	513.48	530.50	520.49	520.59	537.60	527.60	527.74
523.60	513.40	513.58	530.60	520.58	520.69	537.70	527.75	527.89
523.70	513.53	513.69	530.70	520.70	520.79	537.80	528.03	528.04
523.80	513.70	513.79	530.80	520.80	520.99	537.90	528.15	528.14
523.90	513.81	513.98	530.90	521.14	521.19	538.10	528.27	528.24
524.10	513.92	514.18	531.10	521.29	521.30	538.20	528.38	528.34
524.20	514.06	514.29	531.20	521.37	521.40	538.30	528.41	528.44
524.30	514.15	514.39	531.30	521.42	521.50	538.40	528.47	528.54
524.40	514.26	514.49	531.40	521.51	521.60	538.50	528.57	528.69
524.50	514.40	514.60	531.50	521.76	521.70	538.60	528.81	528.89
524.60	514.48	514.70	531.60	522.02	521.81	538.70	529.04	529.04

PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40
538.90	529.10	529.14	545.90	536.10	536.14	553.00	543.57	543.13
539.00	529.15	529.24	546.00	536.15	536.24	553.10	543.65	543.23
539.10	529.18	529.34	546.10	536.19	536.34	553.20	543.80	543.33
539.20	529.28	529.44	546.20	536.27	536.44	553.30	543.93	543.46
539.30	529.44	529.54	546.30	536.41	536.54	553.40	544.04	543.66
539.40	529.54	529.69	546.40	536.58	536.67	553.50	544.17	543.83
539.50	529.58	529.84	546.50	536.71	536.84	553.70	544.19	543.93
539.70	529.71	529.94	546.70	536.87	536.94	553.80	544.21	544.03
539.90	529.85	530.04	546.90	536.99	537.04	553.90	544.24	544.13
540.00	529.94	530.14	547.00	537.06	537.14	554.00	544.28	544.23
540.10	530.15	530.24	547.10	537.27	537.24	554.10	544.37	544.32
540.20	530.30	530.34	547.20	537.41	537.34	554.20	544.53	544.45
540.30	530.36	530.44	547.30	537.46	537.47	554.30	544.64	544.62
540.40	530.45	530.54	547.50	537.50	537.64	554.50	544.69	544.72
540.50	530.50	530.64	547.70	537.63	537.74	554.70	544.73	544.82
540.70	530.58	530.74	547.80	537.82	537.84	554.80	544.80	544.92
540.80	530.82	530.84	547.90	538.13	537.97	554.90	544.98	545.02
540.90	531.14	530.99	548.00	538.19	538.14	555.00	545.13	545.12
541.00	531.20	531.14	548.10	538.23	538.24	555.10	545.18	545.22
541.10	531.26	531.24	548.20	538.31	538.34	555.20	545.22	545.32
541.20	531.31	531.34	548.30	538.38	538.44	555.30	545.29	545.42
541.30	531.35	531.44	548.50	538.53	538.54	555.50	545.35	545.52
541.50	531.51	531.54	548.60	538.72	538.64	555.60	545.45	545.61
541.60	531.66	531.64	548.70	538.91	538.77	555.70	545.65	545.73
541.70	531.98	531.78	548.80	538.96	538.94	555.80	545.73	545.91
541.80	532.15	531.98	548.90	538.99	539.04	555.90	545.80	546.01
542.00	532.25	532.14	549.00	539.04	539.14	556.00	545.93	546.11
542.10	532.31	532.24	549.10	539.12	539.24	556.10	545.99	546.21
542.20	532.36	532.34	549.20	539.18	539.34	556.30	546.15	546.31
542.30	532.50	532.44	549.30	539.26	539.44	556.40	546.34	546.41
542.40	532.79	532.58	549.40	539.47	539.57	556.50	546.51	546.51
542.50	532.99	532.78	549.50	539.86	539.77	556.60	546.73	546.71
542.60	533.11	532.94	549.60	540.03	539.94	556.80	546.90	546.90
542.80	533.16	533.04	549.80	540.10	540.04	556.90	546.95	547.00
542.90	533.25	533.14	549.90	540.14	540.14	557.00	547.02	547.10
543.00	533.30	533.24	550.00	540.18	540.24	557.10	547.11	547.20
543.10	533.37	533.34	550.10	540.26	540.34	557.20	547.27	547.30
543.20	533.51	533.44	550.20	540.45	540.44	557.30	547.66	547.50
543.30	533.69	533.58	550.30	540.72	540.57	557.40	547.75	547.70
543.40	533.73	533.74	550.40	540.86	540.74	557.60	547.80	547.80
543.60	533.84	533.84	550.60	540.91	540.84	557.70	547.85	547.90
543.80	533.91	533.94	550.80	540.96	540.94	557.80	547.89	548.00
543.90	534.12	534.04	550.90	541.05	541.04	557.90	547.99	548.09
544.00	534.32	534.14	551.00	541.29	541.14	558.00	548.16	548.19
544.10	534.39	534.24	551.10	541.54	541.24	558.10	548.31	548.29
544.20	534.40	534.34	551.20	541.59	541.37	558.20	548.41	548.48
544.30	534.47	534.44	551.30	541.63	541.54	558.40	548.54	548.59
544.40	534.54	534.54	551.40	541.67	541.64	558.60	548.62	548.69
544.60	534.63	534.64	551.60	541.71	541.74	558.70	548.88	548.79
544.70	534.77	534.74	551.70	541.98	541.87	558.80	549.10	548.89
544.80	534.93	534.88	551.80	542.32	542.04	558.90	549.16	548.98
544.90	535.02	535.04	551.90	542.41	542.13	559.00	549.23	549.08
545.00	535.05	535.14	552.00	542.46	542.23	559.10	549.32	549.18
545.10	535.09	535.24	552.10	542.49	542.33	559.20	549.39	549.28
545.20	535.13	535.34	552.20	542.52	542.43	559.40	549.50	549.38
545.30	535.20	535.44	552.40	542.79	542.53	559.50	549.76	549.48
545.40	535.30	535.54	552.50	543.02	542.67	559.60	549.90	549.58
545.50	535.44	535.67	552.60	543.26	542.83	559.70	549.94	549.75
545.60	535.66	535.87	552.70	543.40	542.93	559.80	549.99	549.87
545.70	535.92	536.04	552.90	543.49	543.03	559.90	550.05	549.97



PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40
560.00	550.10	550.07	566.90	557.02	556.96	574.20	563.19	563.48
560.10	550.14	550.17	567.20	557.14	557.05	574.30	563.40	563.58
560.20	550.21	550.27	567.30	557.27	557.14	574.40	563.56	563.67
560.30	550.40	550.36	567.40	557.37	557.24	574.50	563.66	563.76
560.40	550.69	550.52	567.50	557.55	557.33	574.60	563.71	563.86
560.50	550.84	550.72	567.70	557.65	557.45	574.70	563.76	563.95
560.70	550.94	550.86	567.80	557.69	557.62	574.80	563.80	564.05
560.80	551.04	550.96	567.90	557.71	557.72	574.90	563.84	564.14
560.90	551.11	551.05	568.00	557.86	557.81	575.00	564.01	564.24
561.00	551.26	551.15	568.10	558.00	557.90	575.10	564.15	564.33
561.10	551.40	551.25	568.20	558.19	558.00	575.20	564.22	564.46
561.20	551.65	551.35	568.30	558.37	558.09	575.30	564.37	564.62
561.30	551.72	551.49	568.50	558.41	558.18	575.50	564.51	564.72
561.50	551.80	551.64	568.60	558.45	558.36	575.60	564.61	564.81
561.70	551.88	551.74	568.70	558.51	558.54	575.70	564.67	564.91
561.80	551.96	551.84	568.80	558.72	558.67	575.80	564.74	565.00
561.90	552.29	551.94	568.90	558.92	558.76	575.90	564.90	565.10
562.00	552.45	552.03	569.00	559.00	558.85	576.00	564.99	565.19
562.10	552.53	552.13	569.10	559.02	558.95	576.10	565.10	565.38
562.20	552.59	552.26	569.30	559.06	559.04	576.30	565.21	565.57
562.30	552.62	552.43	569.50	559.11	559.13	576.50	565.32	565.68
562.50	552.64	552.52	569.60	559.19	559.25	576.60	565.57	565.77
562.60	552.96	552.62	569.70	559.42	559.42	576.70	565.76	565.87
562.70	553.23	552.73	569.80	559.50	559.51	576.80	565.86	565.97
562.80	553.29	552.91	569.90	559.55	559.61	576.90	565.92	566.06
562.90	553.33	553.01	570.00	559.59	559.70	577.00	565.97	566.16
563.00	553.38	553.11	570.10	559.62	559.79	577.10	565.99	566.31
563.10	553.42	553.20	570.30	559.66	559.89	577.30	566.05	566.45
563.30	553.63	553.30	570.40	559.78	559.98	577.40	566.18	566.54
563.40	553.83	553.40	570.50	559.95	560.07	577.50	566.47	566.64
563.50	553.96	553.49	570.60	560.05	560.17	577.60	566.54	566.74
563.60	554.08	553.68	570.70	560.10	560.26	577.70	566.61	566.83
563.70	554.13	553.79	570.80	560.18	560.35	577.80	566.68	566.99
563.80	554.18	553.88	570.90	560.27	560.45	577.90	566.76	567.22
563.90	554.21	553.98	571.10	560.39	560.58	578.10	566.89	567.32
564.00	554.25	554.08	571.20	560.58	560.73	578.20	567.31	567.42
564.10	554.42	554.17	571.30	560.75	560.83	578.30	567.50	567.53
564.20	554.71	554.27	571.40	560.90	560.92	578.40	567.72	567.71
564.30	554.84	554.43	571.60	561.02	561.02	578.50	567.76	567.81
564.40	554.93	554.62	571.70	561.06	561.11	578.60	567.83	567.90
564.60	555.00	554.76	571.80	561.08	561.20	578.70	567.92	568.00
564.70	555.06	554.85	571.90	561.13	561.30	578.80	567.97	568.10
564.80	555.12	554.95	572.00	561.24	561.48	578.90	568.04	568.19
564.90	555.20	555.04	572.10	561.28	561.67	579.00	568.12	568.29
565.00	555.39	555.14	572.20	561.31	561.78	579.10	568.22	568.47
565.10	555.58	555.23	572.40	561.38	561.87	579.20	568.37	568.58
565.20	555.64	555.36	572.50	561.48	561.96	579.40	568.53	568.68
565.40	555.69	555.52	572.60	561.55	562.06	579.50	568.56	568.78
565.60	555.73	555.62	572.70	561.72	562.15	579.60	568.59	568.88
565.70	555.85	555.71	572.80	561.94	562.25	579.70	568.67	568.97
565.80	556.04	555.81	572.90	562.10	562.38	579.80	568.76	569.07
565.90	556.33	555.90	573.00	562.14	562.53	579.90	568.87	569.24
566.00	556.35	556.00	573.20	562.22	562.63	580.00	568.95	569.43
566.10	556.38	556.09	573.40	562.30	562.72	580.20	569.00	569.56
566.20	556.40	556.28	573.50	562.58	562.82	580.40	569.04	569.66
566.40	556.42	556.38	573.60	562.79	562.91	580.50	569.11	569.76
566.50	556.53	556.48	573.70	562.89	563.00	580.60	569.40	569.86
566.60	556.80	556.57	573.80	562.97	563.10	580.70	569.62	569.95
566.70	556.90	556.73	573.90	563.03	563.29	580.80	569.71	570.05
566.80	556.94	556.86	574.00	563.08	563.39	580.90	569.77	570.20

PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40
581.00	569.78	570.35	588.20	577.39	577.35	595.20	584.62	584.34
581.20	569.81	570.45	588.30	577.55	577.45	595.30	584.70	584.44
581.30	570.00	570.55	588.40	577.75	577.56	595.40	584.91	584.54
581.40	570.26	570.64	588.50	577.79	577.66	595.60	585.15	584.64
581.50	570.37	570.74	588.60	577.81	577.76	595.70	585.20	584.74
581.60	570.46	570.84	588.70	577.87	577.86	595.80	585.28	584.83
581.70	570.50	570.98	588.80	577.93	578.02	596.00	585.39	584.97
581.80	570.54	571.14	589.00	578.12	578.16	596.10	585.66	585.13
582.00	570.63	571.24	589.10	578.32	578.26	596.20	585.91	585.23
582.10	570.87	571.34	589.20	578.53	578.36	596.30	585.97	585.33
582.20	571.06	571.47	589.30	578.66	578.46	596.40	585.98	585.42
582.30	571.17	571.63	589.40	578.69	578.56	596.50	586.00	585.52
582.50	571.25	571.73	589.50	578.71	578.66	596.60	586.03	585.62
582.60	571.31	571.83	589.60	578.75	578.76	596.80	586.11	585.73
582.70	571.35	571.93	589.70	578.79	578.86	596.90	586.28	585.91
582.80	571.40	572.03	589.80	578.91	578.96	597.00	586.46	586.01
582.90	571.54	572.13	589.90	579.07	579.06	597.10	586.56	586.11
583.00	571.67	572.26	590.00	579.14	579.16	597.30	586.62	586.21
583.10	571.76	572.43	590.10	579.19	579.33	597.40	586.65	586.40
583.30	571.80	572.53	590.30	579.26	579.47	597.50	586.68	586.50
583.40	571.92	572.63	590.40	579.32	579.57	597.60	586.78	586.59
583.50	572.03	572.73	590.50	579.39	579.67	597.70	586.94	586.69
583.60	572.15	572.83	590.60	579.48	579.77	597.80	587.17	586.79
583.70	572.49	572.93	590.70	579.64	579.87	597.90	587.27	586.88
583.80	572.64	573.06	590.80	579.84	579.97	598.10	587.29	586.98
583.90	572.70	573.26	590.90	579.93	580.13	598.20	587.33	587.15
584.10	572.82	573.43	591.10	579.97	580.33	598.30	587.37	587.27
584.30	573.00	573.53	591.30	580.09	580.47	598.40	587.41	587.37
584.40	573.41	573.63	591.40	580.40	580.57	598.50	587.53	587.46
584.50	573.64	573.73	591.50	580.65	580.67	598.60	587.60	587.56
584.60	573.74	573.83	591.70	580.75	580.77	598.70	587.61	587.66
584.70	573.79	573.93	591.80	580.78	580.87	598.90	587.65	587.75
584.80	573.82	574.06	591.90	580.80	580.97	599.10	587.77	587.90
584.90	573.86	574.23	592.10	580.83	581.13	599.20	588.04	588.09
585.10	573.96	574.33	592.20	581.07	581.27	599.30	588.24	588.24
585.20	574.19	574.43	592.30	581.38	581.37	599.40	588.35	588.34
585.30	574.44	574.53	592.40	581.44	581.47	599.50	588.41	588.43
585.40	574.53	574.63	592.50	581.49	581.57	599.60	588.44	588.53
585.50	574.62	574.74	592.60	581.54	581.67	599.70	588.46	588.62
585.60	574.70	574.84	592.70	581.58	581.77	600.00	588.57	588.72
585.70	574.75	574.94	592.90	581.78	581.93	600.10	588.73	588.83
585.90	575.01	575.04	593.00	582.27	582.06	600.20	588.80	589.01
586.00	575.23	575.14	593.10	582.47	582.16	600.30	588.87	589.11
586.10	575.41	575.24	593.20	582.53	582.26	600.40	589.05	589.20
586.20	575.53	575.38	593.30	582.55	582.43	600.50	589.07	589.30
586.40	575.61	575.54	593.40	582.60	582.56	600.70	589.17	589.40
586.50	575.66	575.64	593.50	582.65	582.66	600.80	589.47	589.49
586.60	575.70	575.74	593.60	582.69	582.76	600.90	589.57	589.59
586.70	575.80	575.84	593.70	582.86	582.86	601.00	589.64	589.68
586.80	575.99	575.94	593.80	583.09	582.96	601.20	589.74	589.78
586.90	576.24	576.05	593.90	583.31	583.06	601.30	589.77	589.87
587.00	576.42	576.19	594.00	583.36	583.21	601.40	589.83	589.97
587.20	576.50	576.39	594.20	583.44	583.36	601.50	589.97	590.06
587.30	576.56	576.55	594.30	583.59	583.46	601.60	590.23	590.22
587.40	576.65	576.65	594.40	583.69	583.55	601.70	590.43	590.36
587.50	576.77	576.75	594.50	583.82	583.65	601.80	590.63	590.45
587.60	576.99	576.85	594.60	584.03	583.75	602.00	590.68	590.55
587.70	577.12	576.95	594.70	584.36	583.85	602.10	590.71	590.64
587.80	577.19	577.05	594.80	584.50	584.00	602.20	590.74	590.74
588.00	577.36	577.21	595.00	584.57	584.19	602.30	590.80	590.83

PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40
602.40	591.03	590.96	609.30	597.67	597.89	616.60	604.78	604.80
602.50	591.33	591.15	609.40	597.81	598.07	616.80	604.86	604.90
602.60	591.36	591.32	609.50	598.10	598.18	616.90	605.07	605.10
602.80	591.43	591.42	609.60	598.22	598.28	617.00	605.22	605.20
603.00	591.64	591.52	609.80	598.23	598.37	617.10	605.30	605.29
603.10	591.83	591.71	610.00	598.25	598.47	617.20	605.53	605.39
603.20	592.04	591.80	610.10	598.35	598.57	617.30	605.68	605.49
603.30	592.15	591.90	610.20	598.55	598.66	617.40	605.73	605.58
603.40	592.18	592.09	610.30	598.78	598.82	617.60	605.99	605.68
603.50	592.21	592.19	610.40	598.92	599.01	617.80	606.12	605.85
603.60	592.26	592.29	610.50	599.05	599.15	617.90	606.32	606.04
603.80	592.31	592.38	610.60	599.14	599.25	618.00	606.47	606.17
603.90	592.39	592.48	610.80	599.18	599.35	618.10	606.53	606.26
604.00	592.56	592.57	610.90	599.28	599.44	618.20	606.55	606.36
604.10	592.66	592.67	611.00	599.47	599.54	618.30	606.57	606.46
604.20	592.77	592.83	611.10	599.51	599.64	618.40	606.61	606.55
604.30	592.85	592.96	611.20	599.54	599.81	618.60	606.91	606.65
604.40	592.91	593.05	611.30	599.56	600.03	618.70	607.09	606.79
604.50	592.93	593.15	611.40	599.58	600.13	618.80	607.17	606.94
604.60	592.98	593.25	611.60	599.69	600.23	618.90	607.23	607.04
604.70	593.11	593.34	611.70	600.16	600.32	619.00	607.28	607.13
604.80	593.27	593.44	611.80	600.24	600.42	619.10	607.33	607.23
604.90	593.39	593.53	611.90	600.45	600.53	619.20	607.38	607.33
605.10	593.46	593.63	612.10	600.63	600.71	619.30	607.42	607.42
605.20	593.48	593.72	612.20	600.76	600.81	619.40	607.48	607.54
605.30	593.51	593.82	612.30	600.84	600.91	619.50	607.61	607.72
605.40	593.60	593.92	612.40	601.04	601.01	619.60	607.72	607.81
605.50	593.74	594.03	612.50	601.29	601.20	619.70	607.86	607.91
605.60	594.06	594.21	612.60	601.48	601.30	619.90	607.98	608.00
605.70	594.28	594.30	612.70	601.62	601.40	620.00	608.02	608.10
605.90	594.33	594.40	612.90	601.66	601.49	620.10	608.05	608.19
606.10	594.38	594.50	613.00	601.68	601.59	620.20	608.22	608.29
606.20	594.51	594.59	613.10	601.71	601.69	620.30	608.38	608.39
606.30	594.78	594.69	613.20	601.77	601.79	620.40	608.52	608.48
606.40	595.28	594.78	613.30	602.10	601.97	620.50	608.66	608.58
606.50	595.31	594.96	613.40	602.26	602.08	620.70	608.71	608.67
606.60	595.35	595.15	613.50	602.29	602.18	620.90	608.90	608.77
606.70	595.43	595.27	613.70	602.38	602.27	621.00	609.05	608.93
606.90	595.50	595.37	613.90	602.42	602.37	621.10	609.31	609.06
607.00	595.71	595.53	614.00	602.54	602.47	621.30	609.50	609.15
607.10	595.95	595.66	614.10	602.94	602.57	621.40	609.52	609.25
607.20	596.01	595.76	614.20	603.04	602.73	621.50	609.56	609.34
607.30	596.08	595.91	614.30	603.11	602.92	621.70	609.72	609.44
607.40	596.14	596.05	614.40	603.17	603.06	621.80	609.96	609.53
607.50	596.20	596.15	614.70	603.21	603.15	621.90	610.29	609.66
607.70	596.33	596.24	614.80	603.41	603.25	622.00	610.46	609.85
607.80	596.49	596.34	614.90	603.59	603.35	622.10	610.55	610.02
607.90	596.58	596.43	615.00	603.79	603.44	622.20	610.72	610.11
608.00	596.68	596.53	615.10	603.84	603.54	622.30	610.80	610.21
608.10	596.81	596.65	615.20	603.86	603.68	622.50	610.92	610.30
608.20	596.87	596.82	615.30	603.88	603.84	622.60	611.07	610.40
608.30	596.91	596.92	615.50	603.92	603.93	622.70	611.16	610.49
608.40	596.93	597.02	615.60	604.00	604.03	622.80	611.25	610.59
608.50	596.99	597.12	615.70	604.12	604.13	622.90	611.30	610.77
608.60	597.05	597.31	615.80	604.22	604.22	623.10	611.33	610.88
608.70	597.28	597.40	616.00	604.28	604.32	623.20	611.35	610.97
608.80	597.37	597.50	616.20	604.32	604.42	623.30	611.50	611.07
609.00	597.42	597.60	616.30	604.40	604.51	623.40	611.71	611.16
609.10	597.47	597.69	616.40	604.54	604.61	623.50	611.79	611.26
609.20	597.53	597.79	616.50	604.70	604.71	623.60	611.83	611.35

PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40
623.80	611.90	611.49	631.00	618.27	618.37	638.30	625.23	625.12
623.90	612.00	611.64	631.10	618.31	618.52	638.40	625.29	625.22
624.00	612.07	611.73	631.20	618.60	618.65	638.60	625.34	625.31
624.10	612.16	611.83	631.30	618.79	618.75	638.70	625.41	625.41
624.20	612.24	611.94	631.40	618.87	618.84	638.80	625.51	625.60
624.30	612.39	612.11	631.70	619.05	618.94	638.90	625.64	625.70
624.40	612.47	612.21	631.80	619.08	619.03	639.00	625.83	625.79
624.60	612.50	612.30	631.90	619.13	619.13	639.10	625.99	625.88
624.80	612.54	612.40	632.00	619.23	619.22	639.20	626.08	625.98
624.90	612.59	612.49	632.10	619.32	619.31	639.40	626.15	626.07
625.00	612.89	612.58	632.20	619.37	619.41	639.60	626.36	626.16
625.10	613.04	612.68	632.40	619.43	619.50	639.70	626.55	626.32
625.20	613.07	612.84	632.60	619.48	619.60	639.80	626.88	626.45
625.30	613.15	612.96	632.70	619.64	619.69	639.90	627.10	626.55
625.40	613.17	613.06	632.80	619.95	619.87	640.00	627.12	626.64
625.60	613.19	613.15	632.90	620.00	619.98	640.10	627.18	626.77
625.70	613.29	613.24	633.00	620.03	620.07	640.20	627.25	626.93
625.80	613.47	613.34	633.10	620.10	620.17	640.40	627.30	627.02
625.90	613.54	613.43	633.20	620.19	620.26	640.50	627.53	627.11
626.00	613.60	613.55	633.40	620.36	620.36	640.60	627.83	627.21
626.10	613.71	613.74	633.50	620.62	620.45	640.70	627.89	627.30
626.20	613.87	613.91	633.60	620.90	620.59	640.80	627.92	627.39
626.40	613.95	614.01	633.70	620.99	620.78	640.90	628.05	627.49
626.50	614.01	614.10	633.80	621.02	620.93	641.00	628.09	627.66
626.60	614.10	614.19	633.90	621.08	621.03	641.20	628.13	627.77
626.70	614.18	614.29	634.00	621.15	621.15	641.30	628.27	627.87
626.90	614.21	614.38	634.20	621.32	621.32	641.40	628.31	627.96
627.00	614.24	614.62	634.30	621.41	621.41	641.50	628.45	628.05
627.10	614.28	614.77	634.40	621.45	621.51	641.70	628.67	628.15
627.20	614.37	614.86	634.50	621.57	621.70	641.80	628.73	628.24
627.30	614.70	614.95	634.70	621.74	621.79	641.90	628.79	628.36
627.40	614.78	615.05	634.80	621.81	621.89	642.00	628.89	628.55
627.50	614.84	615.14	634.90	621.85	621.98	642.10	628.97	628.72
627.70	614.93	615.23	635.00	621.91	622.08	642.20	629.04	628.81
627.80	615.02	615.36	635.10	622.06	622.17	642.30	629.09	628.90
627.90	615.05	615.52	635.20	622.21	622.27	642.50	629.13	629.00
628.00	615.18	615.61	635.50	622.49	622.42	642.60	629.22	629.09
628.10	615.34	615.71	635.70	622.54	622.56	642.70	629.45	629.18
628.20	615.51	615.80	635.80	622.64	622.65	642.80	629.65	629.27
628.30	615.57	615.99	635.90	622.83	622.74	642.90	629.75	629.50
628.50	615.65	616.18	636.00	623.02	622.84	643.00	629.78	629.66
628.70	615.80	616.28	636.20	623.11	622.97	643.10	629.82	629.75
628.80	616.20	616.38	636.30	623.17	623.13	643.30	629.88	629.84
628.90	616.40	616.47	636.50	623.22	623.22	643.50	629.94	629.94
629.00	616.45	616.56	636.60	623.39	623.32	643.60	630.21	630.03
629.10	616.58	616.72	636.70	623.58	623.41	643.70	630.45	630.14
629.20	616.76	616.85	636.80	623.69	623.51	643.80	630.55	630.31
629.30	616.87	616.95	636.90	623.79	623.60	643.90	630.58	630.41
629.60	617.09	617.04	637.00	623.87	623.79	644.00	630.60	630.50
629.70	617.25	617.13	637.10	623.96	623.89	644.10	630.68	630.59
629.80	617.35	617.23	637.30	624.10	623.98	644.30	630.81	630.77
629.90	617.42	617.32	637.40	624.21	624.08	644.40	630.89	630.88
630.00	617.65	617.43	637.50	624.28	624.17	644.50	630.94	630.97
630.10	617.74	617.62	637.60	624.37	624.27	644.60	631.10	631.06
630.30	617.89	617.80	637.70	624.47	624.36	644.70	631.18	631.15
630.40	618.03	617.90	637.80	624.64	624.51	644.80	631.23	631.25
630.50	618.13	617.99	637.90	624.85	624.70	644.90	631.29	631.34
630.60	618.17	618.08	638.00	624.88	624.84	645.10	631.53	631.50
630.80	618.21	618.18	638.10	624.98	624.94	645.20	631.75	631.72
630.90	618.25	618.27	638.20	625.14	625.03	645.30	631.81	631.82

PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40
645.40	631.87	631.91	653.00	638.99	638.68	660.90	645.27	645.20
645.60	631.95	632.00	653.10	639.08	638.77	661.00	645.33	645.29
645.70	631.99	632.09	653.20	639.11	638.87	661.20	645.37	645.38
645.80	632.01	632.19	653.40	639.13	638.96	661.30	645.51	645.55
645.90	632.06	632.36	653.50	639.31	639.05	661.50	645.59	645.66
646.00	632.21	632.54	653.60	639.47	639.15	661.60	645.71	645.76
646.10	632.47	632.66	653.70	639.60	639.28	661.80	645.86	645.85
646.20	632.66	632.76	653.80	639.77	639.46	662.00	645.97	645.94
646.40	632.78	632.85	653.90	639.84	639.62	662.20	646.05	646.03
646.50	632.86	632.94	654.00	639.92	639.72	662.30	646.09	646.12
646.60	632.92	633.03	654.40	640.14	639.81	662.40	646.15	646.22
646.70	633.01	633.13	654.50	640.27	639.90	662.60	646.18	646.40
646.80	633.22	633.24	654.60	640.56	640.00	662.70	646.20	646.49
646.90	633.51	633.41	654.70	640.64	640.09	662.80	646.23	646.58
647.00	633.59	633.50	654.80	640.67	640.18	663.00	646.42	646.67
647.20	633.62	633.60	654.90	640.70	640.35	663.10	646.61	646.76
647.40	633.67	633.69	655.00	640.74	640.47	663.20	646.77	646.86
647.50	633.83	633.78	655.20	640.77	640.56	663.30	646.86	646.95
647.60	633.96	633.87	655.30	640.88	640.65	663.60	646.90	647.07
647.70	633.99	633.97	655.40	641.00	640.74	663.70	646.93	647.26
647.80	634.03	634.12	655.50	641.08	640.83	663.80	647.14	647.42
648.20	634.15	634.25	655.60	641.13	640.93	663.90	647.42	647.51
648.30	634.29	634.35	655.80	641.21	641.04	664.00	647.68	647.60
648.40	634.44	634.44	656.00	641.31	641.21	664.10	647.78	647.69
648.50	634.51	634.56	656.10	641.53	641.30	664.50	648.01	647.78
648.60	634.60	634.72	656.20	641.67	641.40	664.60	648.22	648.09
648.70	634.75	634.82	656.30	641.78	641.49	664.70	648.37	648.26
648.90	634.80	634.91	656.60	641.84	641.66	664.90	648.46	648.35
649.00	634.89	635.00	656.70	641.89	641.77	665.10	648.50	648.45
649.10	635.05	635.10	656.80	641.95	641.86	665.30	648.51	648.54
649.20	635.12	635.19	656.90	642.03	641.96	665.40	648.64	648.63
649.30	635.17	635.44	657.00	642.15	642.05	665.50	649.08	648.73
649.50	635.20	635.65	657.10	642.30	642.14	665.60	649.35	648.91
649.60	635.29	635.77	657.30	642.46	642.23	665.80	649.48	649.00
649.70	635.43	635.86	657.40	642.57	642.35	665.90	649.53	649.09
649.80	635.69	635.95	657.50	642.62	642.51	666.20	649.62	649.18
649.90	635.82	636.09	657.60	642.76	642.61	666.30	649.68	649.27
650.00	635.86	636.24	657.70	642.87	642.70	666.60	649.71	649.42
650.10	635.95	636.36	657.80	642.92	642.79	666.70	649.75	649.55
650.30	636.00	636.53	657.90	642.95	642.88	666.90	649.80	649.64
650.60	636.21	636.62	658.30	642.97	642.97	667.00	649.87	649.73
650.70	636.53	636.71	658.40	643.04	643.06	667.10	649.93	649.82
650.80	636.64	636.80	658.50	643.21	643.21	667.20	649.98	649.91
650.90	636.68	636.90	658.60	643.30	643.40	667.30	650.03	650.00
651.00	636.75	636.99	658.70	643.42	643.54	667.50	650.16	650.09
651.10	636.86	637.08	658.80	643.48	643.63	667.70	650.38	650.27
651.40	637.06	637.25	658.90	643.52	643.72	667.80	650.62	650.53
651.50	637.43	637.37	659.10	643.70	643.81	667.90	650.71	650.67
651.60	637.53	637.46	659.20	643.87	643.90	668.00	650.76	650.76
651.70	637.57	637.56	659.30	643.93	644.00	668.20	650.81	650.85
651.80	637.59	637.65	659.40	644.00	644.09	668.30	650.85	650.94
651.90	637.63	637.74	659.60	644.14	644.26	668.40	650.90	651.03
652.10	637.75	637.84	659.70	644.28	644.37	668.50	650.95	651.16
652.20	637.94	637.93	659.90	644.41	644.46	668.60	650.99	651.41
652.30	638.14	638.02	660.00	644.52	644.55	668.70	651.04	651.50
652.40	638.27	638.12	660.10	644.67	644.64	668.80	651.08	651.59
652.50	638.52	638.21	660.50	644.70	644.74	669.00	651.16	651.68
652.60	638.63	638.30	660.60	644.73	644.83	669.30	651.48	651.77
652.80	638.68	638.39	660.70	644.81	644.93	669.40	651.58	651.87
652.90	638.82	638.58	660.80	644.98	645.11	669.50	651.66	652.01

PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40
669.60	651.70	652.15	678.70	658.96	659.24	689.20	667.46	667.75
669.70	651.78	652.24	678.80	659.11	659.34	689.50	667.76	667.85
669.80	651.85	652.33	678.90	659.28	659.46	689.60	667.81	667.94
670.00	651.87	652.42	679.10	659.38	659.63	689.70	667.86	668.08
670.10	652.07	652.51	679.20	659.44	659.74	689.80	667.92	668.24
670.20	652.38	652.61	679.30	659.53	659.91	690.00	667.97	668.33
670.30	652.44	652.79	679.40	659.67	660.01	690.10	668.03	668.43
670.40	652.46	652.89	679.50	659.81	660.12	690.20	668.11	668.52
670.60	652.47	652.98	679.60	659.93	660.50	690.30	668.28	668.62
670.80	652.49	653.07	680.10	660.31	660.59	690.40	668.50	668.72
670.90	652.50	653.16	680.20	660.53	660.69	690.50	668.67	668.83
671.00	652.52	653.31	680.30	660.62	660.78	690.80	668.70	669.03
671.10	652.54	653.45	680.60	660.71	660.88	690.90	668.75	669.31
671.30	652.58	653.54	680.70	660.75	660.97	691.10	668.92	669.40
671.50	652.65	653.63	680.90	660.80	661.14	691.20	668.99	669.50
671.60	652.93	653.72	681.00	660.95	661.26	691.40	669.09	669.60
671.70	653.15	653.81	681.10	661.28	661.42	691.90	669.34	669.69
671.80	653.46	653.91	681.20	661.35	661.55	692.00	669.55	669.79
671.90	653.58	654.00	681.30	661.55	661.70	692.10	669.61	669.98
672.10	653.63	654.37	681.40	661.79	661.89	692.30	669.67	670.08
672.20	653.68	654.48	681.50	661.98	662.08	692.40	669.71	670.18
672.40	653.79	654.58	681.70	662.08	662.23	692.60	669.76	670.28
672.50	653.97	654.67	681.90	662.16	662.33	692.80	670.01	670.38
672.70	654.24	654.76	682.10	662.21	662.45	692.90	670.20	670.55
672.90	654.36	654.86	682.50	662.29	662.62	693.00	670.24	670.75
673.10	654.42	654.95	682.60	662.49	662.71	693.20	670.28	670.87
673.20	654.55	655.08	682.70	662.61	662.82	693.30	670.31	670.97
673.30	654.68	655.23	683.00	662.65	663.00	693.40	670.35	671.07
673.40	654.74	655.33	683.30	662.78	663.10	693.50	670.52	671.23
673.50	654.77	655.42	683.40	662.84	663.19	693.60	670.66	671.43
673.60	654.80	655.51	683.50	662.95	663.29	693.70	670.87	671.56
673.70	654.85	655.62	683.60	663.01	663.55	694.10	670.93	671.66
673.90	655.20	655.80	683.80	663.06	663.68	694.20	671.05	671.76
674.00	655.41	655.99	684.00	663.15	663.77	694.40	671.26	671.86
674.10	655.51	656.09	684.10	663.21	663.87	694.50	671.38	672.02
674.30	655.54	656.18	684.20	663.29	663.96	694.70	671.70	672.16
674.40	655.72	656.28	684.30	663.61	664.06	694.90	671.83	672.31
674.70	656.04	656.51	684.40	663.70	664.32	695.00	671.89	672.46
674.80	656.21	656.66	684.80	663.82	664.55	695.10	671.97	672.61
674.90	656.29	656.76	684.90	664.07	664.65	695.20	672.07	672.81
675.00	656.53	656.85	685.00	664.37	664.78	695.30	672.11	673.01
675.50	656.64	656.95	685.30	664.54	664.97	695.40	672.13	673.16
675.60	656.70	657.04	685.60	664.71	665.16	695.50	672.18	673.26
675.70	656.78	657.17	685.70	664.93	665.33	695.70	672.35	673.36
676.10	656.90	657.33	685.80	665.29	665.42	695.80	672.48	673.46
676.20	657.06	657.42	685.90	665.38	665.52	695.90	672.58	673.56
676.30	657.14	657.52	686.10	665.43	665.63	696.50	672.82	673.66
676.40	657.36	657.61	686.30	665.79	665.81	696.60	673.12	673.82
676.50	657.45	657.71	686.60	665.89	665.91	697.30	673.20	673.96
677.10	657.85	657.80	687.20	666.10	666.20	697.40	673.30	674.06
677.20	658.27	657.89	687.30	666.27	666.30	697.60	673.34	674.23
677.30	658.35	658.26	687.70	666.50	666.57	698.10	673.43	674.37
677.40	658.37	658.38	688.00	666.63	666.69	698.20	673.74	674.61
677.50	658.39	658.48	688.10	666.84	666.86	699.00	674.73	674.77
677.60	658.42	658.57	688.20	666.92	666.98	699.10	674.85	674.88
677.80	658.46	658.67	688.30	666.95	667.07	699.30	674.88	674.98
677.90	658.53	658.76	688.70	667.12	667.17	699.60	674.91	675.41
678.00	658.65	658.86	688.90	667.19	667.26	699.70	675.08	675.58
678.20	658.71	659.00	689.00	667.23	667.42	699.90	675.53	675.69
678.60	658.82	659.15	689.10	667.31	667.61	700.00	675.66	676.06

PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40	PISA score	NoSmooth	S=0.40
700.10	675.89	676.19	713.10	689.09	687.41	727.90	703.67	701.13
700.40	676.18	676.30	713.40	689.19	687.82	728.60	703.70	701.29
700.50	676.46	676.40	713.60	689.29	688.05	729.30	703.79	701.75
700.60	676.63	676.54	713.70	689.51	688.17	729.60	703.96	702.20
700.70	676.87	677.11	713.80	689.79	688.28	730.00	704.24	702.85
701.10	677.10	677.21	714.00	689.90	688.67	730.30	704.30	703.01
701.20	677.14	677.32	714.10	689.98	688.91	730.90	704.33	703.17
701.30	677.20	677.42	714.20	690.03	689.02	731.00	704.39	703.59
701.50	677.29	677.53	714.50	690.29	689.13	731.10	704.62	703.99
702.10	677.48	677.67	714.70	690.49	689.34	731.60	704.78	704.39
702.20	677.58	677.84	715.00	690.65	689.56	732.40	705.22	704.90
702.80	677.75	677.95	715.20	690.88	689.67	733.10	706.49	705.36
702.90	677.87	678.10	715.30	690.97	689.79	733.20	706.75	705.93
703.00	677.96	678.43	715.40	691.15	690.00	733.90	707.24	706.62
703.10	678.53	678.66	715.50	692.32	690.12	734.00	707.50	707.49
703.20	678.66	678.77	716.00	692.39	690.23	734.10	707.80	708.26
703.30	678.69	678.88	716.10	692.50	690.34	734.50	708.02	709.02
703.60	678.72	679.06	716.20	692.66	690.46	734.70	708.20	709.81
703.70	678.86	679.19	716.90	692.78	690.71	734.80	708.36	710.10
703.90	679.25	679.30	717.00	692.83	690.88	735.20	708.40	710.98
704.10	679.27	679.40	717.60	693.21	691.10	735.50	708.62	711.49
704.30	679.31	679.51	718.00	693.27	691.22	735.60	709.76	711.84
704.40	679.45	679.69	718.30	693.30	691.53	736.00	709.97	712.18
704.60	679.54	680.13	718.40	693.33	691.94	736.30	710.03	712.63
704.80	679.71	680.23	718.50	693.36	692.05	736.50	710.14	712.95
705.10	680.43	680.42	718.80	693.40	692.23	736.70	710.63	713.44
705.20	680.61	680.65	719.20	693.44	692.38	737.00	711.35	713.77
705.40	680.68	680.82	719.70	693.60	692.59	737.20	711.41	714.11
705.80	680.76	680.97	719.90	693.66	692.81	738.00	711.46	714.62
705.90	680.96	681.08	720.00	693.77	692.92	738.10	711.50	715.20
706.00	681.02	681.18	720.10	694.28	693.07	738.40	711.54	715.45
706.40	681.08	681.29	720.40	694.49	693.25	738.60	711.92	716.09
706.70	681.17	681.40	720.50	694.91	693.36	738.80	712.16	716.94
707.00	681.26	681.52	720.70	695.03	693.48	739.40	712.20	717.95
707.40	681.35	681.74	720.80	695.22	693.59	739.50	712.24	718.43
707.90	681.55	681.96	720.90	695.41	693.72	740.20	712.45	719.11
708.20	681.86	682.27	721.20	695.47	694.12	740.90	712.57	719.92
708.30	681.94	682.55	721.50	695.49	694.26	741.00	712.63	720.31
708.40	682.07	682.66	722.00	695.55	694.45	741.20	712.82	720.72
709.00	682.41	682.92	722.20	695.71	694.62	741.40	713.46	721.08
709.20	682.54	683.25	722.60	696.06	694.85	743.40	713.65	722.01
709.70	682.66	683.39	722.90	696.60	694.99	746.30	713.71	722.76
709.90	682.70	683.51	723.00	697.22	695.10	746.40	713.79	723.10
710.00	682.82	683.63	723.10	698.11	695.21	747.20	714.23	724.21
710.10	683.08	683.86	723.80	698.18	695.33	747.30	714.97	724.88
710.60	683.58	684.04	723.90	698.31	695.48	747.70	715.10	725.34
710.70	683.66	684.15	724.60	698.50	695.74	748.20	715.37	725.76
711.30	684.04	684.26	724.70	699.01	695.90	748.30	716.99	726.36
711.40	684.25	684.37	724.90	699.38	696.55	749.00	717.48	726.97
711.50	684.36	684.75	725.00	699.65	697.31	751.60	717.76	728.03
711.60	684.74	684.90	725.30	699.68	697.53	751.90	718.80	729.49
711.80	684.98	685.03	725.40	699.78	698.12	753.50	719.97	730.36
711.90	685.11	685.37	725.60	700.59	698.83	754.30	720.07	731.06
712.10	685.79	685.64	725.80	700.63	699.17	754.40	720.19	732.41
712.20	686.23	685.75	726.10	701.11	699.57	757.30	720.47	733.53
712.30	687.21	685.86	726.20	701.66	699.79	760.50	720.50	734.09
712.60	688.06	686.05	726.80	702.09	700.00	760.60	720.56	734.74
712.70	688.10	686.27	726.90	702.17	700.28	762.10	720.87	735.45
712.80	688.14	686.60	727.00	702.73	700.52	762.20	720.99	736.09
713.00	688.27	687.21	727.20	703.21	700.67	763.40	721.17	736.65

PISA score	NoSmooth	S=0.40
763.60	721.35	737.37
766.70	722.48	738.30
767.70	724.39	738.88
768.30	724.63	739.91
768.90	724.85	741.01
769.50	724.92	742.39
771.10	730.21	746.40
771.30	730.84	747.46
772.60	730.97	748.29
773.00	731.01	751.70
773.70	731.05	754.13
777.00	734.77	758.07
777.10	735.37	761.65
777.50	735.45	763.43
777.60	735.51	767.31
784.60	735.53	768.94
788.50	735.57	771.21
789.20	735.85	772.99
794.70	736.01	777.04
795.50	736.13	777.59
798.70	737.60	788.75
803.30	738.86	795.35
828.40	740.83	810.11



## Appendix J

## Score Conversion Tables from Equipercntile Method – Mathematics as Major and Minor

## Domains

PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01
195.40	279.07	194.92	270.20	281.17	262.80	293.00	283.04	282.99
200.50	279.11	199.05	271.00	281.18	263.85	293.10	283.05	283.00
212.20	279.14	206.67	271.40	281.18	264.70	293.60	283.05	283.01
214.80	279.18	213.08	272.10	281.19	265.10	293.80	283.06	283.02
215.20	279.22	214.86	272.60	281.20	265.42	293.90	283.06	283.03
219.80	279.25	215.18	273.00	281.20	265.91	294.60	283.07	283.04
222.10	279.29	218.75	273.70	281.21	265.99	294.70	283.07	283.04
222.40	279.33	221.14	274.10	281.22	266.45	294.80	283.08	283.05
225.40	279.37	222.22	275.10	281.23	266.99	294.90	283.08	283.06
226.40	279.40	223.01	275.20	281.25	267.71	295.50	283.09	283.07
227.70	279.44	225.41	275.90	281.25	268.51	295.70	283.10	283.08
228.60	279.48	226.23	276.50	281.26	269.00	296.20	283.10	283.08
229.60	279.52	227.23	276.80	281.26	269.97	296.50	283.11	283.09
230.40	279.55	228.10	277.40	281.27	270.69	296.60	283.13	283.10
231.30	279.61	228.86	277.50	281.29	271.17	297.10	283.14	283.12
232.50	279.66	229.66	277.90	281.30	271.57	297.30	283.15	283.15
232.60	279.70	230.30	278.20	281.30	272.12	297.50	283.16	283.17
233.80	279.74	231.02	279.90	281.30	272.53	297.80	283.17	283.19
235.40	279.78	231.90	280.30	281.31	272.87	298.00	283.18	283.21
236.40	279.81	232.53	280.60	281.31	273.34	298.50	283.19	283.23
239.60	279.85	232.75	280.90	281.31	273.82	299.30	283.20	283.25
242.20	279.89	233.72	281.30	281.31	274.20	300.10	283.21	283.28
244.30	279.91	234.99	281.40	281.32	275.01	300.50	283.22	283.30
244.50	279.91	235.96	282.30	281.32	275.17	300.90	283.24	283.33
246.00	279.92	237.58	282.90	281.32	275.57	301.60	283.26	283.35
247.20	279.93	240.06	283.10	281.32	276.11	301.70	283.27	283.38
248.70	279.94	242.17	283.70	281.32	276.55	302.20	283.28	283.40
251.30	279.95	243.88	283.90	281.33	276.79	302.30	283.29	283.43
251.90	279.96	244.42	284.20	281.33	277.27	302.40	283.30	283.46
253.00	279.98	245.13	284.50	281.33	277.46	302.50	283.31	283.48
253.10	279.98	246.28	284.60	281.33	277.66	302.90	283.32	283.52
253.60	279.99	247.27	285.30	281.33	277.96	303.20	283.34	283.56
254.10	280.00	248.48	286.00	281.33	278.24	303.50	283.37	283.61
254.30	280.01	250.43	286.10	281.34	279.62	303.60	283.38	283.64
254.80	280.02	251.59	286.30	281.34	280.16	303.90	283.40	283.71
255.00	280.03	252.22	287.00	281.34	280.44	304.10	300.40	290.09
256.90	280.04	253.01	287.50	281.34	280.68	304.50	300.49	300.83
258.80	280.05	253.09	287.90	281.34	280.93	304.70	300.63	301.21
259.70	280.06	253.46	288.30	281.34	281.26	304.80	305.58	304.89
259.80	280.06	253.87	288.40	281.35	281.37	304.90	305.72	307.66
260.40	280.07	254.17	288.50	281.35	281.42	305.20	313.15	313.07
260.60	280.08	254.38	288.60	281.35	281.58	305.50	313.15	313.10
262.70	280.09	254.78	288.70	283.00	282.79	305.60	313.16	313.12
264.00	280.10	254.95	289.20	283.00	282.85	306.30	313.16	313.13
265.00	281.11	256.11	289.30	283.01	282.90	306.40	313.17	313.15
265.20	281.11	257.65	289.90	283.01	282.92	306.80	313.18	313.16
265.90	281.12	258.99	290.00	283.02	282.93	307.10	313.19	313.17
266.00	281.12	259.70	290.20	283.02	282.94	307.20	313.19	313.18
266.60	281.13	259.78	290.80	283.03	282.95	307.80	313.20	313.19
267.30	281.14	260.18	291.60	283.03	282.96	307.90	313.20	313.20
268.40	281.15	260.49	292.00	283.04	282.97	308.00	313.21	313.22
269.00	281.16	261.15	292.30	283.04	282.98	308.10	313.22	313.24

PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01
308.20	313.22	313.26	320.30	329.77	329.76	330.90	341.05	341.01
308.50	313.23	313.28	320.40	329.78	329.76	331.10	341.08	341.06
308.60	313.24	313.30	320.60	329.78	329.76	331.20	341.11	341.11
308.70	313.25	313.32	320.80	329.78	329.77	331.40	341.14	341.16
308.90	313.27	313.34	321.10	329.78	329.77	331.50	341.17	341.21
309.20	313.27	313.36	321.20	329.79	329.78	331.70	341.19	341.27
309.30	313.28	313.40	321.30	329.79	329.79	331.90	341.36	341.39
309.50	313.29	313.41	321.40	329.80	329.79	332.00	341.43	341.76
309.60	313.30	313.45	321.60	329.80	329.79	332.10	342.51	342.44
310.20	320.04	319.68	321.90	329.82	329.80	332.20	342.54	342.49
310.30	320.10	319.75	322.00	329.84	329.82	332.80	342.55	342.52
310.50	320.15	319.82	322.20	329.85	329.83	332.90	342.58	342.55
311.00	320.18	319.90	322.60	329.85	329.84	333.10	342.59	342.58
311.10	320.21	319.97	322.70	329.86	329.85	333.60	342.59	342.60
311.20	320.24	320.02	322.80	329.88	329.86	333.70	342.60	342.61
311.30	320.25	320.07	322.90	329.88	329.87	333.80	342.61	342.62
311.50	320.27	320.12	323.30	329.89	329.88	333.90	342.62	342.64
311.90	320.28	320.17	323.40	329.89	329.89	334.10	342.62	342.65
312.00	320.29	320.21	323.50	329.90	329.89	334.30	342.63	342.66
312.10	320.30	320.26	323.60	329.91	329.90	334.40	342.64	342.68
312.30	320.31	320.30	323.70	329.91	329.91	334.50	342.65	342.71
312.40	320.31	320.31	324.00	329.92	329.92	334.60	343.85	343.79
312.50	320.31	320.31	324.20	329.93	329.93	334.80	344.55	344.45
312.70	320.31	320.32	324.30	329.94	329.95	335.00	344.56	344.51
312.80	320.32	320.33	324.40	329.96	329.96	335.10	344.57	344.54
313.00	320.32	320.34	324.50	329.97	329.98	335.20	344.58	344.57
313.10	320.33	320.35	324.70	329.98	329.99	335.30	344.60	344.60
313.20	320.33	320.36	324.90	329.99	330.00	335.80	344.62	344.62
313.40	320.33	320.37	325.00	329.99	330.00	335.90	344.63	344.65
313.50	320.34	320.38	325.10	330.01	330.01	336.00	344.65	344.68
314.00	320.35	320.40	325.30	330.01	330.02	336.60	344.77	344.75
314.10	321.36	321.30	325.40	330.02	330.03	336.70	344.80	344.79
314.20	321.38	321.36	325.80	330.03	330.04	336.80	344.82	344.82
314.90	321.39	321.38	325.90	330.04	330.05	336.90	344.83	344.83
315.00	321.41	321.42	326.00	330.05	330.07	337.00	344.84	344.88
315.20	321.44	321.46	326.50	332.18	331.04	337.40	345.10	345.48
315.30	321.46	321.50	326.60	332.49	332.89	337.50	348.60	348.52
315.60	321.50	321.64	326.70	334.57	334.43	338.00	348.62	348.57
315.70	322.70	322.63	326.80	334.62	334.90	338.20	348.63	348.58
315.90	322.72	322.71	326.90	335.95	335.85	338.30	348.63	348.60
316.20	322.74	323.22	327.00	335.95	335.88	338.40	348.65	348.62
316.40	325.65	325.39	327.10	335.96	335.90	338.50	348.66	348.64
316.50	325.75	325.78	327.30	335.97	335.92	338.80	348.66	348.66
316.60	325.81	325.81	327.50	335.98	335.94	338.90	348.67	348.67
317.20	325.82	325.84	327.80	335.98	335.95	339.00	348.67	348.68
317.30	325.85	325.89	328.10	335.99	335.97	339.10	348.68	348.70
317.40	326.57	326.54	328.20	336.00	335.98	339.20	348.69	348.71
317.50	326.58	326.58	328.30	336.02	335.99	339.50	348.70	348.71
317.70	326.60	326.61	328.60	336.06	336.02	339.80	348.71	348.72
317.90	326.61	326.63	328.80	336.10	336.09	339.90	348.71	348.73
318.00	326.65	326.69	328.90	336.12	336.16	340.00	348.72	348.74
318.20	327.27	327.21	329.00	336.15	336.23	340.10	348.72	348.75
318.50	327.31	327.32	329.40	336.19	336.33	340.50	348.73	348.76
318.70	327.37	327.44	329.70	336.76	337.04	340.60	348.74	348.77
318.80	328.66	328.68	329.80	340.60	340.51	340.80	348.74	348.78
318.90	329.75	329.72	330.00	340.62	340.68	340.90	348.75	348.80
319.00	329.76	329.73	330.10	340.66	340.68	341.10	348.78	348.88
319.50	329.76	329.74	330.40	340.75	340.76	341.30	349.06	349.02
319.60	329.77	329.74	330.50	340.82	340.84	341.40	349.10	349.09
319.70	329.77	329.75	330.70	341.01	340.95	341.60	349.12	349.12

PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01
341.80	349.13	349.16	350.90	352.03	352.03	358.60	357.90	357.94
342.10	349.74	349.49	351.00	352.04	352.06	358.80	358.47	358.46
342.20	349.93	350.00	351.20	352.05	352.08	359.00	358.48	358.47
342.30	350.85	350.77	351.40	352.07	352.11	359.20	358.49	358.49
342.40	350.85	350.79	351.50	352.12	352.16	359.30	358.51	358.50
342.60	350.86	350.81	351.60	352.23	352.24	359.40	358.54	358.52
342.70	350.86	350.82	351.70	352.40	352.37	359.50	358.55	358.53
342.80	350.86	350.83	351.90	352.65	352.47	359.60	358.55	358.54
342.90	350.87	350.84	352.00	352.66	352.49	359.70	358.55	358.54
343.00	350.87	350.84	352.20	352.68	352.53	359.80	358.56	358.54
343.20	350.88	350.85	352.30	352.70	352.57	360.00	358.56	358.55
343.40	350.88	350.86	352.40	352.71	352.60	360.10	358.57	358.56
343.70	350.88	350.87	352.50	352.72	352.63	360.30	358.57	358.56
343.80	350.89	350.88	352.80	352.73	352.66	360.50	358.57	358.56
343.90	350.89	350.89	352.90	352.74	352.69	360.60	358.58	358.57
344.00	350.90	350.89	353.00	352.76	352.72	360.70	358.58	358.57
344.20	350.90	350.90	353.10	352.78	352.75	360.80	358.58	358.58
344.40	350.90	350.91	353.20	352.80	352.78	360.90	358.58	358.58
344.50	350.91	350.92	353.30	352.80	352.80	361.00	358.59	358.59
344.60	350.92	350.93	353.50	352.81	352.81	361.10	358.59	358.59
344.70	350.93	350.94	353.60	352.81	352.82	361.30	358.59	358.60
344.80	350.93	350.95	353.70	352.81	352.82	361.40	358.60	358.60
344.90	350.94	350.96	353.80	352.81	352.83	361.50	358.60	358.61
345.00	350.94	350.97	353.90	352.82	352.84	361.60	358.60	358.62
345.20	350.95	350.99	354.00	352.82	352.85	361.70	358.62	358.63
345.30	351.45	351.39	354.10	352.82	352.86	361.90	358.63	358.64
345.40	351.46	351.42	354.30	352.83	352.87	362.10	358.64	358.65
345.50	351.46	351.43	354.60	352.83	352.88	362.30	358.64	358.66
345.70	351.46	351.44	354.70	352.84	352.89	362.40	358.66	358.68
346.10	351.46	351.44	354.80	352.85	352.90	362.50	358.67	358.69
346.20	351.47	351.45	354.90	352.88	353.00	362.60	358.67	358.70
346.30	351.48	351.46	355.00	353.25	353.15	362.80	358.68	358.71
346.70	351.48	351.47	355.10	353.28	353.26	362.90	358.68	358.73
346.80	351.48	351.48	355.30	353.29	353.29	363.10	358.69	358.74
346.90	351.49	351.48	355.40	353.40	353.51	363.20	358.92	358.86
347.30	351.49	351.49	355.50	354.91	354.78	363.30	358.94	358.89
347.60	351.49	351.49	355.60	354.93	354.98	363.40	358.96	358.91
347.70	351.50	351.50	355.70	355.05	355.03	363.50	358.98	358.93
347.80	351.51	351.51	355.80	355.07	355.06	363.70	358.99	358.95
347.90	351.51	351.51	355.90	355.09	355.09	363.80	359.00	358.97
348.00	351.51	351.52	356.10	355.14	355.17	363.90	359.02	359.00
348.30	351.51	351.53	356.20	355.35	355.32	364.00	359.05	359.03
348.40	351.52	351.53	356.30	355.37	355.35	364.10	359.07	359.07
348.50	351.52	351.54	356.40	355.39	355.38	364.40	359.08	359.10
348.70	351.52	351.55	356.60	355.40	355.40	364.50	359.10	359.15
348.80	351.53	351.55	356.70	355.41	355.43	364.60	359.27	359.25
348.90	351.53	351.56	356.80	355.43	355.45	364.70	359.32	359.32
349.00	351.53	351.57	356.90	355.44	355.50	364.80	359.46	359.45
349.10	351.53	351.57	357.00	355.66	355.62	364.90	359.60	359.64
349.20	351.54	351.58	357.10	355.68	355.67	365.00	360.01	360.07
349.30	351.55	351.59	357.20	355.70	355.70	365.20	360.86	360.63
349.40	351.55	351.60	357.40	355.73	355.74	365.30	360.89	360.88
349.90	351.56	351.63	357.50	355.75	355.79	365.40	360.91	361.32
350.00	351.61	351.70	357.70	355.84	356.03	365.50	362.72	362.65
350.10	351.96	351.91	357.80	356.28	356.26	365.60	362.78	362.77
350.20	351.97	351.94	357.90	356.32	356.32	365.70	362.81	362.81
350.50	351.98	351.96	358.00	356.34	356.35	366.00	362.81	362.82
350.60	351.98	351.97	358.20	356.34	356.37	366.20	362.82	362.84
350.70	351.99	351.98	358.40	356.35	356.47	366.30	362.84	362.88
350.80	352.00	352.00	358.50	357.60	357.40	366.40	363.48	363.41

PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01
366.50	363.52	363.53	374.30	372.54	372.56	381.50	375.63	375.63
366.60	363.56	363.58	374.40	372.58	372.58	381.60	375.64	375.65
366.70	363.58	363.66	374.50	372.63	372.62	381.80	375.65	375.67
366.80	363.79	363.79	374.60	372.65	372.64	381.90	375.71	375.71
367.00	363.91	363.99	374.80	372.66	372.66	382.00	375.80	375.78
367.10	364.17	364.09	374.90	372.68	372.68	382.10	375.85	375.87
367.20	364.29	364.22	375.00	372.70	372.70	382.20	376.12	376.14
367.50	364.33	364.28	375.10	372.71	372.72	382.30	376.37	376.30
367.60	364.35	364.32	375.30	372.72	372.74	382.40	376.40	376.37
367.70	364.36	364.36	375.40	372.73	372.76	382.50	376.42	376.46
367.80	364.39	364.40	375.50	372.74	372.79	382.60	377.16	377.14
367.90	364.42	364.42	375.60	373.10	373.02	382.70	377.89	377.87
368.00	364.43	364.44	375.70	373.14	373.08	382.80	378.25	378.15
368.10	364.44	364.46	375.80	373.17	373.11	382.90	378.27	378.21
368.30	364.46	364.48	375.90	373.19	373.15	383.10	378.29	378.24
368.40	364.50	364.51	376.10	373.20	373.17	383.20	378.29	378.26
368.50	364.52	364.61	376.20	373.20	373.19	383.30	378.30	378.29
368.60	364.95	364.86	376.30	373.21	373.20	383.40	378.31	378.32
368.70	364.97	364.95	376.40	373.21	373.21	383.50	378.33	378.37
368.80	364.99	364.98	376.50	373.23	373.23	383.60	378.56	378.52
369.10	365.00	365.00	376.60	373.24	373.24	383.70	378.56	378.54
369.30	365.00	365.03	376.70	373.24	373.25	383.90	378.57	378.56
369.40	365.02	365.07	376.90	373.25	373.26	384.10	378.58	378.57
369.50	365.06	365.12	377.10	373.26	373.27	384.20	378.59	378.59
369.60	365.09	365.16	377.20	373.28	373.28	384.30	378.61	378.61
369.70	365.10	365.20	377.30	373.29	373.30	384.40	378.63	378.64
369.80	365.19	365.29	377.40	373.30	373.31	384.50	378.64	378.66
369.90	365.45	365.40	377.50	373.30	373.32	384.60	378.69	378.72
370.10	365.46	365.44	377.60	373.31	373.33	384.90	378.87	378.84
370.20	365.49	365.48	377.70	373.31	373.34	385.00	379.16	379.20
370.30	365.52	365.53	377.90	373.32	373.35	385.10	379.59	379.55
370.40	365.54	365.58	378.00	373.33	373.36	385.20	379.62	379.63
370.70	365.62	365.66	378.10	373.34	373.38	385.30	379.63	379.65
370.90	365.90	365.85	378.20	373.45	373.44	385.40	379.64	379.68
371.00	366.02	366.01	378.30	373.48	373.47	385.50	379.75	379.74
371.10	366.11	366.10	378.40	373.50	373.49	385.70	379.84	379.90
371.20	366.17	366.18	378.50	373.51	373.51	385.80	380.39	380.36
371.40	366.21	366.22	378.60	373.53	373.55	385.90	380.44	380.49
371.60	366.24	366.26	378.70	373.60	373.70	386.00	380.93	380.84
371.70	366.42	366.45	378.80	374.26	374.22	386.30	380.99	381.00
371.80	367.81	367.64	378.90	374.27	374.24	386.40	381.03	381.09
371.90	368.40	368.31	379.00	374.28	374.26	386.50	381.28	381.22
372.00	368.55	368.52	379.20	374.29	374.27	386.60	381.36	381.34
372.20	368.58	368.57	379.30	374.29	374.28	386.70	381.44	381.51
372.30	368.62	368.63	379.40	374.29	374.29	386.80	382.02	382.06
372.40	368.78	368.99	379.50	374.30	374.31	387.00	382.31	382.24
372.50	369.76	369.74	379.60	374.32	374.33	387.10	382.35	382.31
372.60	369.79	369.79	379.70	374.33	374.35	387.20	382.36	382.32
372.70	369.83	369.82	379.80	374.34	374.36	387.30	382.36	382.33
372.80	369.84	369.84	380.00	374.35	374.39	387.40	382.36	382.35
373.00	369.85	369.85	380.20	374.65	374.54	387.50	382.37	382.36
373.20	369.86	369.87	380.30	375.02	375.01	387.60	382.38	382.37
373.30	369.88	369.90	380.40	375.25	375.23	387.80	382.38	382.38
373.40	369.94	369.95	380.50	375.31	375.32	388.10	382.39	382.39
373.50	369.98	370.00	380.80	375.33	375.36	388.20	382.40	382.40
373.60	370.00	370.07	381.00	375.35	375.41	388.30	382.41	382.41
373.70	370.38	370.23	381.10	375.58	375.54	388.40	382.42	382.42
374.00	370.46	370.88	381.20	375.60	375.58	388.50	382.42	382.42
374.10	372.47	372.40	381.30	375.61	375.60	388.60	382.42	382.43
374.20	372.53	372.55	381.40	375.62	375.61	388.80	382.42	382.44

PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01
388.90	382.43	382.45	396.00	389.91	389.90	403.20	396.81	396.83
389.00	382.45	382.46	396.10	389.96	390.01	403.30	396.84	396.92
389.10	382.45	382.47	396.20	389.98	390.07	403.40	397.01	397.07
389.20	382.45	382.48	396.30	390.00	390.14	403.60	397.25	397.19
389.30	382.47	382.52	396.40	390.37	390.30	403.70	397.27	397.22
389.60	382.65	382.60	396.60	390.43	390.48	403.80	397.29	397.25
389.70	382.68	382.65	396.70	390.67	390.63	403.90	397.29	397.27
389.80	382.70	382.69	396.80	390.68	390.66	404.00	397.30	397.29
389.90	382.72	382.72	396.90	390.69	390.68	404.10	397.31	397.30
390.10	382.74	382.75	397.00	390.70	390.70	404.20	397.31	397.32
390.20	382.74	382.77	397.10	390.72	390.73	404.40	397.32	397.33
390.30	382.75	382.84	397.20	390.73	390.76	404.50	397.33	397.35
390.40	383.36	383.32	397.30	390.75	390.80	404.60	397.34	397.37
390.50	383.37	383.35	397.40	390.78	390.85	404.70	397.45	397.43
390.60	383.38	383.37	397.50	390.86	390.97	404.90	397.48	397.47
390.70	383.39	383.38	397.60	391.27	391.22	405.10	397.51	397.50
390.90	383.40	383.40	397.70	391.35	391.31	405.20	397.55	397.56
391.00	383.40	383.41	398.00	391.36	391.33	405.30	398.10	398.06
391.10	383.41	383.42	398.10	391.36	391.34	405.40	398.38	398.30
391.20	383.41	383.44	398.20	391.37	391.35	405.50	398.47	398.42
391.30	383.44	383.46	398.30	391.38	391.36	405.80	398.51	398.49
391.40	383.55	383.58	398.40	391.39	391.38	405.90	398.55	398.60
391.50	384.20	383.87	398.50	391.40	391.39	406.00	398.85	398.89
391.70	384.47	384.44	398.70	391.40	391.40	406.10	399.05	399.03
391.90	384.50	384.50	398.90	391.40	391.40	406.20	399.07	399.06
392.00	384.53	384.56	399.00	391.41	391.41	406.30	399.08	399.08
392.10	384.99	384.96	399.10	391.42	391.43	406.50	399.09	399.10
392.20	385.02	385.03	399.20	391.43	391.44	406.70	399.10	399.12
392.30	385.03	385.06	399.30	391.44	391.45	406.80	399.13	399.16
392.40	385.05	385.10	399.40	391.44	391.45	406.90	399.28	399.25
392.50	385.24	385.18	399.50	391.44	391.46	407.00	399.33	399.35
392.70	385.31	385.33	399.70	391.44	391.47	407.10	399.46	399.72
392.80	385.62	385.58	399.80	391.45	391.49	407.20	400.98	400.69
392.90	385.67	385.67	399.90	391.96	391.87	407.30	401.17	401.14
393.00	385.71	385.71	400.00	391.99	391.97	407.50	401.29	401.39
393.10	385.71	385.73	400.10	392.01	392.00	407.60	401.71	401.63
393.20	385.72	385.75	400.20	392.02	392.02	407.70	401.76	401.71
393.30	385.73	385.79	400.30	392.03	392.05	407.80	401.80	401.77
393.40	385.76	385.99	400.50	392.18	392.17	408.00	401.81	401.81
393.50	387.07	387.01	400.60	392.52	392.49	408.10	401.82	401.83
393.60	387.42	387.46	400.70	392.88	392.89	408.20	401.84	401.85
393.70	388.03	387.95	400.80	393.22	393.22	408.30	401.86	401.89
393.80	388.11	388.12	401.00	393.65	393.53	408.40	401.96	401.96
394.00	388.13	388.15	401.10	393.97	393.78	408.50	402.02	402.03
394.10	388.24	388.21	401.20	394.11	394.07	408.60	402.14	402.10
394.20	388.28	388.27	401.30	394.23	394.28	408.80	402.19	402.15
394.30	388.31	388.31	401.40	394.88	394.86	408.90	402.21	402.18
394.40	388.37	388.37	401.50	394.96	395.13	409.00	402.23	402.20
394.50	388.43	388.46	401.60	395.75	395.70	409.10	402.25	402.22
394.60	388.88	388.83	401.80	395.87	395.89	409.20	402.26	402.23
394.80	388.91	388.90	401.90	396.05	396.00	409.30	402.27	402.24
394.90	388.93	388.92	402.00	396.08	396.08	409.40	402.28	402.25
395.00	388.95	388.94	402.10	396.14	396.13	409.60	402.28	402.26
395.10	388.97	388.97	402.20	396.17	396.16	409.70	402.29	402.27
395.20	389.00	388.99	402.30	396.20	396.19	409.80	402.29	402.28
395.30	389.02	389.01	402.60	396.22	396.22	409.90	402.29	402.29
395.40	389.03	389.03	402.80	396.23	396.24	410.00	402.32	402.32
395.60	389.04	389.04	402.90	396.24	396.27	410.10	402.35	402.36
395.80	389.04	389.07	403.00	396.49	396.54	410.20	402.36	402.39
395.90	389.79	389.70	403.10	396.77	396.75	410.40	402.38	402.43

PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01
410.60	402.40	402.46	417.80	410.21	410.21	424.70	417.06	417.06
410.70	402.44	402.52	417.90	410.36	410.39	424.80	417.46	417.49
410.80	402.81	402.76	418.00	410.49	410.63	424.90	417.83	417.79
410.90	403.03	403.08	418.10	410.86	410.78	425.00	417.86	417.86
411.00	403.26	403.21	418.20	410.87	410.83	425.20	417.90	417.90
411.10	403.27	403.24	418.40	410.88	410.86	425.40	417.92	417.94
411.20	403.27	403.26	418.50	410.92	410.93	425.50	418.00	418.01
411.40	403.29	403.29	418.60	411.17	411.14	425.60	418.14	418.17
411.50	403.32	403.33	418.70	411.19	411.18	425.70	418.52	418.46
411.60	403.34	403.37	418.80	411.20	411.20	425.80	418.63	418.67
411.70	403.54	403.60	418.90	411.22	411.24	425.90	418.89	418.88
411.80	403.98	403.92	419.00	411.24	411.30	426.00	419.10	419.03
411.90	404.04	404.12	419.20	411.65	411.60	426.20	419.18	419.17
412.00	404.50	404.43	419.30	411.71	411.72	426.30	419.25	419.28
412.10	404.55	404.64	419.40	411.76	411.77	426.40	419.86	419.75
412.20	405.25	405.21	419.50	411.84	411.86	426.50	419.94	419.95
412.30	405.29	405.28	419.70	411.90	412.01	426.60	420.08	420.06
412.40	405.33	405.32	419.80	412.25	412.20	426.70	420.12	420.12
412.50	405.36	405.36	419.90	412.26	412.23	426.80	420.16	420.17
412.70	405.39	405.39	420.00	412.27	412.26	426.90	420.21	420.23
412.80	405.42	405.42	420.10	412.28	412.28	427.00	420.32	420.37
412.90	405.44	405.46	420.20	412.30	412.30	427.10	420.58	420.57
413.00	405.67	405.60	420.30	412.32	412.32	427.20	420.64	420.66
413.10	405.85	405.91	420.50	412.33	412.34	427.30	420.76	420.74
413.20	406.42	406.37	420.60	412.34	412.35	427.50	420.80	420.79
413.50	406.44	406.43	420.70	412.35	412.38	427.70	420.84	420.83
413.70	406.47	406.46	420.80	412.47	412.54	427.80	420.90	420.91
413.80	406.50	406.50	420.90	413.10	413.05	427.90	421.17	421.14
413.90	406.54	406.55	421.00	413.16	413.15	428.00	421.55	421.51
414.00	406.58	406.59	421.10	413.17	413.17	428.10	421.57	421.55
414.10	406.59	406.62	421.30	413.18	413.19	428.30	421.58	421.58
414.20	406.65	406.70	421.50	413.20	413.24	428.50	421.60	421.60
414.30	406.75	406.74	421.60	413.28	413.33	428.60	421.62	421.65
414.50	406.76	406.75	421.70	413.35	413.42	428.70	422.22	422.11
414.60	406.78	406.77	421.80	413.71	413.59	428.80	422.71	422.65
414.70	406.81	406.80	421.90	413.76	413.72	428.90	422.75	422.78
414.80	406.81	406.81	422.00	413.79	413.76	429.00	422.84	422.86
415.00	406.82	406.83	422.10	413.80	413.79	429.10	422.95	422.92
415.10	406.83	406.84	422.30	413.85	413.85	429.30	422.98	422.96
415.30	406.84	406.87	422.40	413.91	413.90	429.40	423.04	423.07
415.40	407.78	407.63	422.50	413.94	413.97	429.50	423.37	423.34
415.50	408.09	408.05	422.60	414.12	414.09	429.60	423.38	423.37
415.60	408.13	408.14	422.70	414.40	414.26	429.70	423.39	423.38
415.80	408.20	408.18	422.80	414.52	414.45	429.80	423.41	423.40
415.90	408.25	408.23	422.90	414.60	414.56	429.90	423.44	423.42
416.00	408.27	408.25	423.00	414.67	414.65	430.10	423.49	423.46
416.10	408.28	408.28	423.10	414.75	414.87	430.20	423.53	423.50
416.20	408.31	408.31	423.20	415.88	415.81	430.30	423.55	423.52
416.30	408.34	408.36	423.30	416.17	416.11	430.40	423.57	423.55
416.40	408.72	408.56	423.40	416.20	416.18	430.60	423.58	423.57
416.60	408.86	408.81	423.60	416.21	416.21	430.70	423.59	423.59
416.70	408.87	408.85	423.70	416.24	416.23	430.80	423.60	423.60
416.80	408.88	408.88	423.80	416.26	416.25	430.90	423.61	423.62
416.90	408.91	408.91	423.90	416.28	416.28	431.00	423.62	423.63
417.00	408.95	408.96	424.00	416.30	416.31	431.10	423.64	423.65
417.10	409.03	409.05	424.10	416.33	416.34	431.20	423.64	423.67
417.20	409.37	409.28	424.20	416.35	416.37	431.40	423.65	423.68
417.40	409.86	409.79	424.40	416.41	416.45	431.50	423.65	423.70
417.60	409.92	409.96	424.50	416.55	416.62	431.60	423.83	423.77
417.70	410.13	410.10	424.60	416.89	416.81	431.70	423.89	423.89

PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01
431.80	424.15	424.12	438.80	431.22	431.23	445.80	437.51	437.52
431.90	424.32	424.25	438.90	431.54	431.61	445.90	437.53	437.54
432.00	424.35	424.30	439.00	431.76	431.73	446.00	437.55	437.56
432.20	424.36	424.34	439.20	431.77	431.76	446.20	437.58	437.59
432.40	424.38	424.37	439.30	431.78	431.77	446.30	437.61	437.62
432.50	424.40	424.41	439.40	431.79	431.79	446.40	437.64	437.68
432.60	424.43	424.44	439.50	431.81	431.81	446.50	437.79	437.84
432.70	424.45	424.47	439.60	431.83	431.84	446.60	437.95	437.92
432.80	424.63	424.61	439.70	431.85	431.87	446.70	437.96	437.94
432.90	424.86	424.81	439.80	431.92	431.95	446.80	437.96	437.95
433.00	424.90	424.90	440.00	432.32	432.34	447.00	437.97	437.95
433.20	424.94	424.94	440.20	432.76	432.74	447.20	437.97	437.96
433.30	424.97	424.97	440.30	432.81	432.81	447.30	437.98	437.97
433.40	425.00	424.99	440.40	433.14	433.06	447.40	437.99	437.98
433.50	425.03	425.03	440.50	433.35	433.28	447.50	438.00	437.99
433.60	425.04	425.06	440.60	433.42	433.37	447.60	438.00	438.00
433.70	425.05	425.09	440.70	433.46	433.43	447.70	438.00	438.00
433.80	425.07	425.12	440.80	433.48	433.47	447.80	438.00	438.01
434.00	425.10	425.17	441.00	433.53	433.56	448.00	438.01	438.01
434.10	425.42	425.40	441.10	433.76	433.74	448.10	438.01	438.02
434.20	425.54	425.56	441.20	433.80	433.80	448.20	438.02	438.03
434.30	425.71	425.71	441.30	433.85	433.87	448.30	438.03	438.04
434.50	425.80	425.83	441.40	433.87	433.93	448.40	438.03	438.05
434.60	425.96	425.92	441.50	433.90	434.02	448.50	438.03	438.05
434.70	426.01	426.03	441.60	434.43	434.24	448.60	438.03	438.06
434.80	426.24	426.29	441.70	434.50	434.53	448.80	438.04	438.07
434.90	426.59	426.59	441.80	434.71	434.75	448.90	438.04	438.08
435.00	426.87	426.85	441.90	435.07	435.09	449.00	438.10	438.18
435.10	426.95	426.99	442.00	435.46	435.44	449.10	438.52	438.48
435.30	427.08	427.07	442.10	435.51	435.51	449.30	439.14	439.00
435.40	427.14	427.12	442.30	435.55	435.55	449.40	439.22	439.21
435.50	427.18	427.17	442.40	435.65	435.61	449.50	439.27	439.29
435.60	427.22	427.23	442.50	435.65	435.62	449.60	439.41	439.49
435.70	427.48	427.48	442.60	435.66	435.64	449.70	439.99	440.08
435.80	427.91	427.85	442.70	435.68	435.66	449.80	440.61	440.63
435.90	427.97	427.96	442.80	435.69	435.68	449.90	441.05	441.03
436.10	428.03	428.07	442.90	435.70	435.69	450.10	441.07	441.06
436.30	428.47	428.42	443.10	435.71	435.71	450.20	441.09	441.09
436.40	428.68	428.69	443.30	435.71	435.72	450.30	441.10	441.11
436.50	429.00	428.96	443.40	435.72	435.74	450.40	441.13	441.15
436.60	429.05	429.02	443.50	435.74	435.77	450.50	441.86	441.75
436.70	429.06	429.05	443.60	436.27	436.14	450.60	442.11	442.11
436.80	429.07	429.07	443.70	436.32	436.31	450.70	442.19	442.38
436.90	429.09	429.09	443.80	436.35	436.35	450.90	442.56	442.52
437.10	429.14	429.16	443.90	436.38	436.38	451.10	442.57	442.56
437.20	429.37	429.33	444.10	436.40	436.42	451.20	442.61	442.62
437.30	429.40	429.38	444.20	436.55	436.57	451.30	443.03	442.93
437.40	429.42	429.41	444.30	436.87	436.84	451.40	443.16	443.13
437.50	429.43	429.44	444.40	436.89	436.88	451.50	443.17	443.18
437.60	429.44	429.47	444.50	436.90	436.90	451.60	443.21	443.22
437.70	429.49	429.56	444.60	436.92	436.94	451.70	443.26	443.28
437.80	429.85	429.71	444.70	436.94	436.99	451.90	443.35	443.34
437.90	429.87	429.84	444.90	437.02	437.14	452.00	443.39	443.38
438.00	429.90	429.89	445.00	437.36	437.35	452.10	443.42	443.42
438.10	429.95	429.96	445.10	437.44	437.42	452.20	443.43	443.45
438.20	430.00	430.11	445.20	437.46	437.44	452.30	443.45	443.50
438.40	430.61	430.54	445.40	437.47	437.46	452.40	443.68	443.62
438.50	430.75	430.73	445.50	437.48	437.47	452.50	443.71	443.70
438.60	430.80	430.81	445.60	437.48	437.49	452.60	443.77	443.76
438.70	431.06	430.98	445.70	437.50	437.50	452.70	443.95	444.10

PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01
452.80	445.49	445.19	459.90	450.48	450.49	467.00	456.66	456.63
452.90	445.60	445.60	460.00	450.70	450.70	467.10	456.70	456.71
453.00	445.69	445.78	460.20	451.04	451.01	467.20	456.74	456.80
453.20	445.97	445.95	460.30	451.12	451.15	467.30	457.04	456.94
453.30	446.02	446.02	460.40	451.21	451.32	467.40	457.11	457.14
453.40	446.11	446.15	460.50	451.65	451.61	467.50	457.55	457.59
453.50	446.26	446.25	460.60	451.84	451.88	467.60	458.52	458.48
453.60	446.33	446.34	460.70	452.05	452.01	467.70	458.85	458.81
453.70	446.57	446.56	460.80	452.07	452.05	467.80	458.91	458.92
453.80	446.63	446.63	461.00	452.08	452.07	468.00	458.94	458.98
454.00	446.64	446.66	461.10	452.10	452.10	468.10	459.17	459.11
454.10	446.67	446.69	461.20	452.12	452.12	468.20	459.29	459.26
454.20	446.71	446.72	461.30	452.14	452.16	468.30	459.38	459.37
454.30	446.77	446.83	461.40	452.24	452.32	468.40	459.43	459.46
454.40	447.44	447.40	461.50	452.46	452.42	468.50	459.86	459.83
454.50	447.56	447.54	461.60	452.46	452.44	468.60	459.89	459.88
454.60	447.57	447.56	461.80	452.46	452.45	468.80	459.90	459.90
454.80	447.58	447.57	462.00	452.47	452.45	468.90	459.92	459.92
455.00	447.58	447.58	462.10	452.47	452.46	469.00	459.93	459.94
455.10	447.59	447.59	462.20	452.48	452.47	469.10	459.95	459.97
455.20	447.61	447.61	462.30	452.49	452.48	469.20	460.05	460.02
455.30	447.61	447.62	462.40	452.50	452.49	469.30	460.13	460.09
455.50	447.62	447.63	462.50	452.50	452.50	469.40	460.15	460.12
455.60	447.62	447.64	462.60	452.50	452.50	469.60	460.17	460.15
455.80	447.63	447.66	462.80	452.51	452.51	469.80	460.19	460.19
455.90	447.64	447.67	462.90	452.51	452.52	469.90	460.24	460.23
456.00	447.75	447.73	463.00	452.52	452.53	470.00	460.35	460.39
456.10	447.76	447.76	463.10	452.52	452.53	470.10	461.00	460.85
456.20	447.78	447.77	463.20	452.53	452.54	470.20	461.51	461.37
456.30	447.81	447.80	463.30	452.53	452.55	470.30	461.60	461.56
456.40	447.85	447.84	463.40	452.53	452.55	470.40	461.70	461.67
456.50	447.87	447.88	463.60	452.54	452.56	470.60	461.75	461.75
456.60	447.92	447.94	463.70	452.55	452.58	470.70	461.83	461.84
456.70	448.01	448.01	463.80	452.59	452.63	470.80	461.89	461.93
456.80	448.11	448.09	463.90	452.96	452.75	470.90	461.99	462.06
456.90	448.23	448.23	464.10	453.04	453.03	471.00	462.28	462.21
457.10	448.36	448.42	464.20	453.15	453.17	471.10	462.36	462.31
457.20	448.72	448.56	464.30	453.26	453.25	471.20	462.37	462.34
457.30	448.81	448.69	464.40	453.33	453.38	471.30	462.37	462.36
457.40	448.86	448.79	464.50	453.76	453.72	471.40	462.39	462.39
457.50	448.87	448.82	464.60	453.82	453.82	471.50	462.41	462.42
457.60	448.88	448.84	464.70	453.91	453.92	471.60	462.43	462.46
457.70	448.88	448.85	464.90	454.02	454.05	471.70	462.47	462.53
457.90	448.89	448.87	465.00	454.14	454.21	471.90	462.70	462.66
458.10	448.89	448.88	465.10	454.84	454.62	472.00	462.81	462.79
458.20	448.90	448.90	465.20	455.01	455.03	472.10	462.85	462.83
458.30	448.92	448.92	465.30	455.43	455.38	472.20	462.86	462.85
458.40	448.93	448.94	465.40	455.50	455.50	472.30	462.87	462.87
458.50	448.94	448.95	465.50	455.52	455.53	472.40	462.89	462.89
458.60	448.94	448.97	465.70	455.54	455.58	472.50	462.90	462.91
458.70	448.95	448.99	465.90	455.85	455.82	472.70	462.91	462.92
458.90	449.00	449.10	466.00	455.92	455.95	472.90	462.93	462.94
459.00	449.53	449.54	466.10	456.08	456.05	473.00	462.93	462.96
459.10	449.80	449.77	466.20	456.10	456.08	473.10	463.36	463.19
459.20	449.81	449.82	466.30	456.10	456.10	473.20	464.04	463.87
459.30	449.83	449.84	466.40	456.11	456.12	473.30	464.16	464.13
459.40	449.84	449.86	466.50	456.12	456.14	473.40	464.18	464.17
459.50	449.89	449.92	466.70	456.17	456.20	473.50	464.20	464.20
459.70	450.09	450.10	466.80	456.39	456.36	473.70	464.23	464.26
459.80	450.35	450.31	466.90	456.52	456.52	473.80	464.88	464.78



PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01
473.90	464.97	464.95	481.00	472.11	472.11	487.90	479.14	479.15
474.00	464.98	464.97	481.10	472.12	472.11	488.00	479.16	479.17
474.10	464.99	464.98	481.20	472.12	472.12	488.10	479.18	479.19
474.20	464.99	465.00	481.30	472.12	472.12	488.20	479.20	479.21
474.30	465.00	465.01	481.50	472.13	472.13	488.30	479.23	479.23
474.50	465.01	465.03	481.60	472.13	472.14	488.50	479.25	479.26
474.60	465.03	465.05	481.70	472.14	472.15	488.60	479.32	479.34
474.70	465.05	465.08	481.80	472.14	472.16	488.70	479.76	479.74
474.80	465.17	465.16	481.90	472.15	472.16	488.80	479.77	479.76
475.00	465.33	465.33	482.00	472.15	472.17	488.90	479.78	479.78
475.10	465.55	465.54	482.10	472.15	472.18	489.00	479.79	479.79
475.20	465.85	465.81	482.20	472.19	472.20	489.10	479.80	479.81
475.30	465.92	465.93	482.30	472.23	472.24	489.30	479.81	479.83
475.40	466.03	466.01	482.40	472.35	472.30	489.40	479.84	479.87
475.50	466.13	466.15	482.50	472.40	472.39	489.50	479.96	479.98
475.60	466.47	466.39	482.60	472.48	472.61	489.60	480.21	480.26
475.80	466.62	466.57	482.80	473.10	473.09	489.80	480.95	480.88
475.90	466.69	466.71	482.90	473.72	473.52	489.90	481.04	481.05
476.00	466.74	466.78	483.00	473.94	473.83	490.00	481.18	481.23
476.10	466.91	466.91	483.10	474.01	474.04	490.10	481.80	481.76
476.20	467.11	467.13	483.20	474.72	474.65	490.20	482.07	482.09
476.30	467.28	467.27	483.30	475.09	475.11	490.30	482.29	482.27
476.40	467.31	467.31	483.40	475.35	475.30	490.40	482.32	482.32
476.60	467.32	467.33	483.60	475.35	475.32	490.60	482.33	482.35
476.80	467.34	467.37	483.70	475.36	475.34	490.70	482.37	482.45
476.90	467.60	467.64	483.80	475.37	475.36	490.80	482.72	482.74
477.00	468.64	468.56	483.90	475.38	475.37	490.90	483.40	483.34
477.10	469.09	469.06	484.00	475.40	475.40	491.00	483.82	483.83
477.20	469.17	469.19	484.10	475.41	475.41	491.10	484.16	484.12
477.30	469.26	469.25	484.20	475.42	475.43	491.20	484.22	484.24
477.40	469.32	469.34	484.40	475.43	475.44	491.40	484.34	484.42
477.60	469.79	469.81	484.60	475.44	475.46	491.60	484.63	484.67
477.70	470.20	470.23	484.70	475.68	475.56	491.70	484.89	484.88
477.80	470.91	470.90	484.80	475.88	475.87	491.80	485.06	485.08
477.90	471.22	471.20	484.90	475.90	475.91	491.90	485.56	485.50
478.00	471.29	471.35	485.00	475.91	475.94	492.00	485.58	485.58
478.10	471.47	471.44	485.10	475.93	475.97	492.10	485.62	485.62
478.20	471.50	471.52	485.20	475.95	476.03	492.20	485.65	485.67
478.40	471.67	471.66	485.40	476.18	476.17	492.40	485.71	485.76
478.50	471.74	471.76	485.50	476.23	476.24	492.50	485.87	485.86
478.60	471.81	471.84	485.60	476.35	476.32	492.60	485.91	485.91
478.70	471.95	471.92	485.70	476.39	476.38	492.70	485.92	485.94
478.90	472.01	471.96	485.80	476.43	476.45	492.80	485.94	485.98
479.00	472.05	471.99	485.90	476.49	476.58	492.90	485.95	486.13
479.10	472.05	472.00	486.00	476.85	476.79	493.00	486.35	486.35
479.20	472.06	472.01	486.10	476.89	476.89	493.20	486.38	486.39
479.30	472.06	472.02	486.20	477.07	477.13	493.30	486.42	486.41
479.40	472.07	472.02	486.30	478.06	477.98	493.40	486.45	486.43
479.50	472.07	472.03	486.40	478.46	478.44	493.50	486.46	486.45
479.70	472.07	472.04	486.50	478.55	478.56	493.70	486.47	486.46
479.80	472.07	472.04	486.70	478.61	478.61	493.80	486.47	486.47
479.90	472.08	472.05	486.80	478.66	478.66	493.90	486.48	486.48
480.00	472.08	472.06	486.90	478.69	478.72	494.00	486.49	486.49
480.10	472.09	472.06	487.00	478.80	478.92	494.10	486.51	486.52
480.20	472.09	472.07	487.10	479.06	479.04	494.20	486.55	486.55
480.30	472.10	472.08	487.20	479.08	479.06	494.30	486.57	486.58
480.50	472.10	472.08	487.30	479.09	479.08	494.50	486.58	486.61
480.70	472.10	472.09	487.50	479.10	479.10	494.60	486.59	486.65
480.80	472.11	472.09	487.70	479.11	479.11	494.70	486.77	486.80
480.90	472.11	472.10	487.80	479.12	479.13	494.80	487.09	487.19

PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01
494.90	488.00	487.98	501.90	497.63	497.65	509.00	505.95	505.99
495.00	488.20	488.20	502.00	497.74	497.77	509.10	506.57	506.49
495.10	488.28	488.41	502.10	498.13	498.11	509.30	506.67	506.64
495.30	488.72	488.69	502.30	498.19	498.27	509.40	506.72	506.73
495.50	488.89	488.85	502.50	498.51	498.47	509.50	506.81	506.80
495.60	489.02	489.04	502.60	498.63	498.65	509.60	506.89	506.89
495.70	489.98	489.87	502.70	498.90	498.89	509.70	507.01	507.15
495.80	490.20	490.18	502.80	499.08	499.16	509.80	507.59	507.58
495.90	490.35	490.31	502.90	499.55	499.51	509.90	508.04	507.99
496.00	490.38	490.36	503.00	499.62	499.71	510.10	508.17	508.14
496.10	490.41	490.41	503.10	499.68	499.80	510.30	508.20	508.20
496.30	490.57	490.60	503.30	499.78	499.87	510.40	508.27	508.28
496.40	490.79	490.79	503.40	499.95	499.93	510.50	508.60	508.60
496.50	490.97	490.95	503.50	499.97	499.95	510.60	508.86	508.82
496.60	491.02	491.02	503.60	499.98	499.96	510.70	508.91	508.90
496.70	491.05	491.09	503.70	499.98	499.97	510.80	508.95	508.95
496.80	491.22	491.25	503.80	499.99	499.98	510.90	509.00	509.02
496.90	491.70	491.69	503.90	499.99	499.99	511.10	509.15	509.16
497.00	491.96	491.93	504.10	500.02	500.02	511.20	509.42	509.44
497.10	492.18	492.26	504.20	500.05	500.06	511.30	509.66	509.61
497.20	492.48	492.47	504.30	500.07	500.10	511.40	509.68	509.66
497.30	492.51	492.51	504.40	500.09	500.13	511.50	509.69	509.68
497.40	492.53	492.53	504.60	500.18	500.21	511.60	509.71	509.71
497.60	492.54	492.56	504.70	500.25	500.30	511.70	509.73	509.73
497.70	492.57	492.59	504.80	500.58	500.54	511.80	509.75	509.78
497.80	492.61	492.65	504.90	500.67	500.65	511.90	510.03	509.97
497.90	492.86	492.80	505.00	500.70	500.69	512.00	510.11	510.11
498.00	492.94	492.99	505.10	500.73	500.71	512.10	510.19	510.25
498.10	493.87	493.75	505.20	500.75	500.74	512.20	510.52	510.52
498.20	494.03	494.05	505.40	500.76	500.76	512.40	510.85	510.78
498.40	494.44	494.41	505.50	500.78	500.78	512.50	510.91	510.99
498.60	494.65	494.68	505.60	500.79	500.79	512.60	511.30	511.33
498.70	494.97	495.01	505.70	500.81	500.82	512.70	511.65	511.61
498.80	495.66	495.62	505.80	500.89	500.94	512.80	511.66	511.64
498.90	495.68	495.66	505.90	501.21	501.17	512.90	511.68	511.66
499.00	495.69	495.68	506.00	501.23	501.26	513.00	511.69	511.68
499.20	495.70	495.70	506.20	501.52	501.62	513.20	511.69	511.70
499.40	495.71	495.73	506.40	502.56	502.45	513.40	511.70	511.71
499.50	495.75	495.78	506.50	502.69	502.74	513.50	511.71	511.73
499.60	496.04	496.04	506.60	502.85	502.83	513.60	511.73	511.75
499.70	496.23	496.18	506.70	502.89	502.87	513.70	511.74	511.77
499.80	496.25	496.24	506.80	502.90	502.89	513.80	511.85	511.84
499.90	496.28	496.29	506.90	502.91	502.91	514.00	511.88	511.87
500.00	496.30	496.32	507.00	502.92	502.93	514.20	511.90	511.91
500.20	496.35	496.38	507.20	502.93	502.96	514.30	511.99	512.02
500.30	496.51	496.50	507.30	503.09	503.26	514.40	512.44	512.43
500.40	496.56	496.58	507.40	504.15	504.07	514.50	512.54	512.67
500.50	496.63	496.64	507.50	504.30	504.37	514.60	513.11	513.07
500.60	496.68	496.69	507.60	504.67	504.68	514.70	513.17	513.21
500.70	496.76	496.75	507.70	504.91	504.83	514.80	513.22	513.30
500.80	496.80	496.79	507.80	504.97	504.95	515.00	513.46	513.43
500.90	496.83	496.86	508.00	505.07	505.10	515.10	513.47	513.45
501.00	497.07	497.04	508.10	505.45	505.42	515.20	513.48	513.46
501.10	497.37	497.33	508.20	505.48	505.46	515.30	513.49	513.48
501.20	497.52	497.46	508.30	505.49	505.49	515.40	513.49	513.49
501.30	497.55	497.51	508.50	505.51	505.51	515.50	513.50	513.50
501.50	497.57	497.54	508.60	505.52	505.53	515.60	513.50	513.51
501.60	497.57	497.56	508.70	505.53	505.56	515.70	513.50	513.52
501.70	497.59	497.59	508.80	505.67	505.65	515.80	513.51	513.53
501.80	497.61	497.62	508.90	505.78	505.79	515.90	513.52	513.55

PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01
516.00	513.54	513.57	523.10	520.23	520.28	530.20	527.94	528.10
516.10	513.54	513.59	523.30	520.46	520.42	530.30	528.55	528.49
516.30	513.68	513.73	523.40	520.47	520.45	530.40	528.55	528.51
516.40	514.10	513.99	523.50	520.47	520.47	530.50	528.56	528.52
516.50	514.11	514.03	523.60	520.49	520.50	530.60	528.56	528.53
516.60	514.12	514.07	523.70	520.51	520.53	530.70	528.57	528.54
516.70	514.14	514.10	523.80	520.55	520.57	530.80	528.57	528.55
516.80	514.17	514.13	523.90	520.67	520.64	530.90	528.58	528.56
516.90	514.18	514.16	524.10	520.68	520.67	531.10	528.59	528.57
517.10	514.20	514.18	524.20	520.69	520.69	531.20	528.59	528.58
517.30	514.21	514.20	524.30	520.70	520.71	531.30	528.59	528.59
517.40	514.21	514.21	524.40	520.72	520.74	531.40	528.60	528.60
517.50	514.23	514.22	524.50	520.82	520.86	531.50	528.62	528.62
517.60	514.24	514.23	524.60	521.21	521.18	531.60	528.64	528.64
517.70	514.24	514.24	524.70	521.35	521.30	531.70	528.65	528.66
517.80	514.24	514.25	524.90	521.37	521.34	531.90	528.66	528.68
517.90	514.25	514.26	525.10	521.39	521.37	532.10	528.66	528.69
518.10	514.25	514.27	525.20	521.44	521.45	532.20	528.67	528.71
518.20	514.47	514.47	525.30	521.89	521.89	532.30	528.69	528.74
518.30	514.59	514.58	525.40	522.85	522.63	532.40	529.18	529.00
518.40	514.66	514.64	525.50	523.07	523.06	532.50	529.26	529.18
518.50	514.68	514.67	525.60	523.33	523.32	532.60	529.63	529.57
518.60	514.70	514.70	525.70	523.44	523.40	532.70	529.75	529.71
518.70	514.72	514.74	525.90	523.46	523.42	532.90	529.79	529.81
518.90	514.84	514.88	526.00	523.47	523.43	533.00	529.87	529.94
519.00	515.24	515.27	526.10	523.47	523.44	533.10	530.28	530.25
519.10	515.52	515.58	526.20	523.48	523.45	533.20	530.36	530.38
519.20	515.97	515.91	526.30	523.48	523.46	533.30	530.42	530.47
519.40	516.00	515.98	526.40	523.48	523.47	533.40	530.57	530.55
519.50	516.01	516.01	526.50	523.48	523.47	533.50	530.62	530.61
519.60	516.03	516.05	526.60	523.49	523.48	533.70	530.69	530.70
519.70	516.19	516.29	526.70	523.49	523.49	533.80	530.79	530.88
519.80	516.63	516.63	526.80	523.50	523.50	533.90	531.25	531.22
519.90	516.84	516.83	526.90	523.51	523.51	534.00	531.28	531.26
520.00	516.96	516.98	527.00	523.51	523.52	534.20	531.30	531.29
520.20	517.07	517.14	527.20	523.52	523.53	534.30	531.31	531.32
520.30	517.32	517.29	527.30	523.52	523.53	534.40	531.33	531.35
520.40	517.38	517.39	527.40	523.52	523.54	534.50	531.45	531.43
520.50	517.54	517.52	527.50	523.53	523.55	534.60	531.49	531.49
520.60	517.66	517.66	527.60	523.54	523.56	534.70	531.53	531.54
520.70	517.72	517.72	527.70	523.55	523.58	534.80	531.55	531.61
520.80	517.74	517.78	527.80	523.89	523.81	535.00	532.00	531.88
521.00	518.00	517.93	528.00	524.09	524.11	535.10	532.04	531.99
521.20	518.04	518.01	528.20	524.36	524.34	535.20	532.06	532.05
521.30	518.08	518.08	528.30	524.55	524.51	535.30	532.10	532.11
521.40	518.13	518.15	528.40	524.63	524.65	535.40	532.15	532.16
521.50	518.29	518.26	528.50	525.36	525.25	535.50	532.27	532.28
521.60	518.35	518.41	528.60	525.40	525.41	535.60	532.49	532.48
521.70	518.80	518.63	528.80	525.55	525.56	535.80	532.71	532.70
521.80	518.88	518.90	529.00	525.81	525.89	536.00	532.96	532.92
522.00	518.99	519.12	529.10	526.45	526.42	536.10	533.02	533.04
522.10	519.31	519.26	529.20	526.50	526.50	536.20	533.28	533.28
522.20	519.37	519.33	529.30	526.52	526.53	536.30	533.31	533.31
522.30	519.39	519.37	529.40	526.53	526.57	536.40	533.32	533.32
522.40	519.40	519.40	529.50	526.75	526.68	536.50	533.32	533.34
522.50	519.41	519.42	529.60	526.80	526.81	536.60	533.33	533.35
522.60	519.42	519.44	529.80	526.98	527.00	536.80	533.34	533.37
522.80	519.43	519.47	529.90	527.46	527.43	536.90	533.42	533.43
522.90	519.94	519.82	530.00	527.55	527.56	537.00	533.78	533.76
523.00	520.15	520.10	530.10	527.63	527.70	537.10	533.81	533.82

PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01
537.20	533.84	533.89	544.30	542.32	542.33	551.30	549.58	549.57
537.30	534.11	534.00	544.40	542.34	542.36	551.40	549.58	549.57
537.40	534.15	534.11	544.60	542.43	542.47	551.60	549.58	549.58
537.60	534.23	534.26	544.70	542.82	542.79	551.70	549.59	549.59
537.70	534.72	534.73	544.80	542.92	542.89	551.80	549.62	549.62
537.80	535.35	535.30	544.90	542.96	542.94	551.90	549.62	549.63
537.90	535.42	535.46	545.00	543.00	542.99	552.00	549.63	549.65
538.10	535.70	535.60	545.10	543.01	543.02	552.10	549.63	549.67
538.20	535.76	535.73	545.20	543.02	543.04	552.20	549.64	549.68
538.30	535.79	535.80	545.30	543.04	543.07	552.40	549.66	549.71
538.40	535.85	535.91	545.40	543.22	543.19	552.50	549.68	549.74
538.50	536.08	536.08	545.50	543.34	543.36	552.60	549.86	549.83
538.60	536.38	536.36	545.60	543.52	543.48	552.70	549.89	549.87
538.70	536.50	536.49	545.70	543.55	543.52	552.90	549.91	549.89
538.90	536.55	536.54	545.90	543.58	543.56	553.00	549.92	549.91
539.00	536.57	536.58	546.00	543.59	543.59	553.10	549.93	549.94
539.10	536.59	536.63	546.10	543.60	543.62	553.20	550.08	550.10
539.20	536.70	536.75	546.20	543.62	543.66	553.30	550.96	550.86
539.30	536.87	536.85	546.30	543.66	543.71	553.40	551.09	551.07
539.40	536.90	536.90	546.40	543.69	543.77	553.50	551.14	551.15
539.50	536.91	536.93	546.50	544.09	544.08	553.70	551.18	551.23
539.70	536.93	536.97	546.70	544.64	544.72	553.80	551.44	551.39
539.90	536.95	537.04	546.90	545.16	545.12	553.90	551.68	551.65
540.00	537.19	537.19	547.00	545.16	545.14	554.00	551.74	551.79
540.10	537.26	537.29	547.10	545.17	545.15	554.10	552.08	552.05
540.20	537.36	537.33	547.20	545.18	545.16	554.20	552.16	552.14
540.30	537.37	537.36	547.30	545.19	545.17	554.30	552.18	552.18
540.40	537.38	537.38	547.40	545.19	545.18	554.50	552.20	552.20
540.50	537.40	537.41	547.50	545.19	545.18	554.70	552.23	552.27
540.70	537.47	537.53	547.70	545.19	545.19	554.80	552.37	552.51
540.80	538.27	538.23	547.80	545.20	545.20	554.90	553.00	553.00
540.90	538.33	538.35	547.90	545.22	545.22	555.00	553.03	553.09
541.00	538.37	538.40	548.00	545.22	545.23	555.10	553.49	553.33
541.10	538.46	538.48	548.10	545.23	545.23	555.20	553.65	553.55
541.20	538.59	538.57	548.20	545.23	545.24	555.30	553.72	553.76
541.30	538.65	538.66	548.30	545.23	545.25	555.50	554.00	554.15
541.40	538.91	538.83	548.50	545.24	545.27	555.60	555.16	555.13
541.50	539.00	539.03	548.60	545.91	545.86	555.70	555.17	555.16
541.60	539.45	539.41	548.70	546.37	546.33	555.80	555.19	555.18
541.70	539.46	539.44	548.80	546.39	546.40	555.90	555.19	555.19
541.80	539.48	539.45	549.00	546.42	546.43	556.00	555.20	555.21
542.00	539.49	539.47	549.10	546.44	546.47	556.10	555.21	555.22
542.10	539.49	539.48	549.20	546.63	546.58	556.20	555.21	555.23
542.20	539.49	539.49	549.30	546.77	546.85	556.30	555.22	555.25
542.30	539.51	539.51	549.40	547.28	547.26	556.40	555.24	555.27
542.40	539.54	539.54	549.50	547.85	547.83	556.50	555.40	555.38
542.50	539.56	539.57	549.60	548.04	548.08	556.60	555.48	555.47
542.60	539.57	539.59	549.80	548.27	548.22	556.80	555.52	555.52
542.80	539.59	539.62	549.90	548.29	548.28	556.90	555.53	555.58
543.00	539.61	539.64	550.00	548.32	548.37	557.00	555.75	555.73
543.10	539.67	539.74	550.10	548.59	548.60	557.10	555.77	555.76
543.20	540.06	540.03	550.20	548.93	548.92	557.20	555.79	555.79
543.30	540.80	540.74	550.30	549.02	549.03	557.30	555.82	555.81
543.40	540.85	540.94	550.40	549.04	549.08	557.40	555.83	555.83
543.60	541.33	541.34	550.60	549.36	549.33	557.60	555.84	555.84
543.80	541.78	541.71	550.80	549.42	549.43	557.80	555.85	555.86
543.90	542.02	542.03	550.90	549.49	549.49	557.90	555.87	555.88
544.00	542.28	542.25	551.00	549.56	549.53	558.00	555.91	555.91
544.10	542.30	542.29	551.10	549.57	549.55	558.10	555.94	555.95
544.20	542.31	542.31	551.20	549.57	549.56	558.20	556.07	556.07

PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01
558.40	556.38	556.47	565.40	559.65	559.64	572.60	564.94	564.95
558.60	557.29	557.26	565.60	559.75	559.70	572.70	564.98	565.00
558.70	557.77	557.75	565.70	559.76	559.71	572.80	565.72	565.59
558.80	557.83	557.84	565.80	559.80	559.74	572.90	565.76	565.73
558.90	557.84	557.89	565.90	559.82	559.81	573.00	565.76	565.74
559.00	557.91	558.06	566.00	559.82	559.83	573.20	565.77	565.75
559.10	558.79	558.67	566.10	559.83	559.84	573.40	565.77	565.76
559.20	558.87	558.88	566.20	559.83	559.85	573.50	565.78	565.77
559.40	559.19	559.25	566.40	559.84	559.87	573.60	565.79	565.78
559.50	559.45	559.42	566.50	560.36	560.09	573.70	565.79	565.79
559.60	559.46	559.42	566.60	560.77	560.75	573.80	565.79	565.80
559.70	559.46	559.43	566.70	561.05	560.98	573.90	565.80	565.80
559.80	559.46	559.43	566.80	561.07	561.04	574.00	565.80	565.81
559.90	559.46	559.44	566.90	561.08	561.07	574.20	565.81	565.82
560.00	559.46	559.44	567.20	561.11	561.11	574.30	565.81	565.83
560.10	559.46	559.45	567.30	561.15	561.20	574.40	565.82	565.84
560.20	559.46	559.45	567.40	561.43	561.36	574.50	565.83	565.84
560.30	559.47	559.45	567.50	561.50	561.49	574.60	565.83	565.85
560.40	559.47	559.46	567.70	561.57	561.66	574.70	565.83	565.86
560.50	559.47	559.46	567.80	561.95	561.94	574.80	565.84	565.87
560.70	559.48	559.46	567.90	561.97	561.98	574.90	565.84	565.88
560.80	559.48	559.47	568.00	562.02	562.01	575.00	565.84	565.89
560.90	559.48	559.47	568.10	562.05	562.03	575.10	565.88	565.96
561.00	559.48	559.47	568.20	562.07	562.05	575.20	566.16	566.10
561.10	559.48	559.48	568.30	562.07	562.06	575.30	566.46	566.42
561.20	559.49	559.48	568.50	562.08	562.06	575.50	566.47	566.45
561.30	559.49	559.48	568.60	562.08	562.07	575.60	566.48	566.47
561.50	559.49	559.49	568.70	562.08	562.08	575.70	566.49	566.49
561.70	559.49	559.49	568.80	562.09	562.09	575.80	566.51	566.51
561.80	559.49	559.49	568.90	562.10	562.09	575.90	566.54	566.56
561.90	559.50	559.50	569.00	562.10	562.10	576.00	567.06	566.90
562.00	559.50	559.50	569.10	562.10	562.11	576.10	567.13	567.09
562.10	559.50	559.50	569.30	562.11	562.11	576.30	567.18	567.17
562.20	559.50	559.50	569.50	562.11	562.12	576.50	567.20	567.21
562.30	559.50	559.51	569.60	562.12	562.13	576.60	567.23	567.28
562.50	559.50	559.51	569.70	562.13	562.14	576.70	568.05	568.02
562.60	559.51	559.51	569.80	562.13	562.15	576.80	568.06	568.04
562.70	559.51	559.52	569.90	562.14	562.15	576.90	568.07	568.05
562.80	559.51	559.52	570.00	562.14	562.16	577.00	568.07	568.06
562.90	559.51	559.52	570.10	562.14	562.17	577.10	568.07	568.07
563.00	559.52	559.52	570.30	562.15	562.17	577.30	568.08	568.08
563.10	559.52	559.53	570.40	562.18	562.20	577.40	568.09	568.09
563.30	559.52	559.53	570.50	562.22	562.22	577.50	568.10	568.11
563.40	559.52	559.53	570.60	562.24	562.25	577.60	568.11	568.12
563.50	559.53	559.54	570.70	562.58	562.52	577.70	568.12	568.13
563.60	559.53	559.54	570.80	563.26	563.12	577.80	568.12	568.14
563.80	559.53	559.54	570.90	563.34	563.45	577.90	568.13	568.15
563.90	559.53	559.55	571.00	563.97	563.93	578.10	568.14	568.17
564.00	559.53	559.55	571.10	564.03	564.05	578.20	568.27	568.29
564.10	559.53	559.55	571.20	564.15	564.13	578.30	569.05	568.96
564.20	559.54	559.55	571.30	564.22	564.25	578.40	569.17	569.32
564.30	559.54	559.56	571.40	564.57	564.53	578.60	569.86	569.80
564.40	559.54	559.56	571.60	564.63	564.64	578.70	569.90	569.90
564.60	559.54	559.56	571.70	564.65	564.69	578.80	569.94	570.05
564.70	559.54	559.57	571.80	564.86	564.80	578.90	571.06	570.94
564.80	559.55	559.57	571.90	564.87	564.83	579.00	571.13	571.18
564.90	559.55	559.58	572.00	564.88	564.85	579.10	571.22	571.27
565.00	559.58	559.60	572.10	564.90	564.88	579.20	571.36	571.32
565.10	559.62	559.62	572.20	564.91	564.90	579.40	571.36	571.34
565.20	559.63	559.63	572.40	564.92	564.92	579.50	571.36	571.34

PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01
579.60	571.36	571.35	586.60	576.39	576.45	593.70	587.76	587.72
579.70	571.37	571.36	586.70	576.96	576.74	593.80	587.77	587.73
579.80	571.39	571.38	586.80	577.00	577.00	593.90	587.77	587.74
579.90	571.40	571.39	586.90	577.04	577.07	594.00	587.77	587.75
580.00	571.41	571.40	587.00	577.55	577.50	594.20	587.77	587.76
580.20	571.41	571.41	587.20	577.57	577.56	594.30	587.78	587.77
580.40	571.42	571.42	587.40	577.59	577.59	594.40	587.78	587.77
580.50	571.45	571.45	587.50	577.62	577.63	594.50	587.79	587.78
580.60	571.48	571.47	587.60	577.77	577.79	594.60	587.80	587.79
580.70	571.49	571.49	587.70	579.00	578.82	594.70	587.80	587.80
580.80	571.51	571.51	587.80	579.15	579.09	594.80	587.80	587.80
580.90	571.52	571.52	587.90	579.15	579.11	595.00	587.81	587.81
581.00	571.52	571.54	588.00	579.16	579.12	595.20	587.81	587.82
581.20	571.53	571.55	588.20	579.16	579.13	595.30	587.81	587.82
581.30	571.58	571.59	588.30	579.17	579.14	595.40	587.82	587.83
581.40	571.61	571.61	588.40	579.18	579.16	595.60	587.82	587.84
581.50	571.62	571.62	588.50	579.19	579.17	595.70	587.83	587.84
581.60	571.63	571.64	588.60	579.19	579.17	595.80	587.83	587.85
581.70	571.64	571.65	588.70	579.19	579.18	596.00	587.83	587.86
581.80	571.64	571.67	588.80	579.19	579.19	596.10	587.84	587.87
582.00	572.34	571.92	589.00	579.20	579.20	596.20	588.01	587.95
582.10	572.51	572.45	589.10	579.23	579.23	596.30	588.10	588.03
582.20	572.53	572.48	589.20	579.26	579.25	596.40	588.21	588.16
582.30	572.54	572.50	589.30	579.27	579.27	596.50	588.25	588.22
582.50	572.55	572.51	589.40	579.27	579.29	596.60	588.26	588.25
582.60	572.55	572.53	589.50	579.28	579.30	596.80	588.29	588.28
582.70	572.56	572.54	589.60	579.28	579.32	596.90	588.32	588.36
582.80	572.56	572.56	589.70	579.29	579.34	597.00	589.35	588.75
582.90	572.57	572.57	589.80	579.46	579.44	597.10	589.42	589.47
583.00	572.59	572.59	589.90	579.54	579.53	597.30	589.62	589.66
583.10	572.60	572.60	590.00	579.84	579.78	597.40	589.82	589.91
583.30	572.60	572.61	590.10	579.89	579.90	597.50	590.10	590.29
583.40	572.61	572.62	590.30	579.94	580.05	597.60	590.78	590.74
583.50	572.61	572.62	590.40	580.56	580.44	597.70	590.83	590.90
583.60	572.62	572.63	590.50	580.59	580.64	597.80	591.75	591.71
583.70	572.63	572.65	590.60	581.46	581.42	597.90	591.76	591.74
583.80	572.64	572.66	590.70	582.42	582.29	598.10	591.76	591.74
583.90	572.65	572.67	590.80	582.77	582.73	598.20	591.76	591.76
584.10	572.67	572.72	590.90	582.80	582.79	598.30	591.77	591.77
584.30	573.04	573.13	591.10	582.81	582.80	598.40	591.77	591.78
584.40	574.27	574.26	591.30	582.83	582.87	598.50	591.78	591.79
584.50	575.16	575.08	591.40	583.55	583.30	598.60	591.79	591.80
584.60	575.21	575.22	591.50	583.58	583.58	598.70	591.79	591.81
584.70	575.25	575.26	591.70	583.60	583.60	598.90	591.80	591.82
584.80	575.29	575.35	591.80	583.61	583.62	599.10	591.80	591.82
584.90	575.37	575.57	591.90	583.61	583.63	599.20	591.82	591.84
585.10	575.88	575.85	592.10	583.62	583.64	599.30	591.84	591.85
585.20	575.95	576.02	592.20	583.65	583.68	599.40	591.85	591.86
585.30	576.22	576.16	592.30	584.66	584.51	599.50	592.15	592.03
585.40	576.24	576.19	592.40	584.85	584.78	599.60	592.15	592.04
585.50	576.25	576.21	592.50	584.86	584.83	599.70	592.15	592.05
585.60	576.26	576.23	592.60	584.87	584.86	599.90	592.15	592.06
585.70	576.27	576.25	592.70	584.89	584.88	600.00	592.15	592.07
585.80	576.27	576.27	592.90	584.99	585.12	600.10	592.15	592.07
585.90	576.30	576.30	593.00	587.29	586.75	600.20	592.15	592.08
586.00	576.32	576.32	593.10	587.41	587.41	600.30	592.16	592.09
586.10	576.34	576.35	593.20	587.44	587.53	600.40	592.16	592.09
586.20	576.36	576.37	593.40	587.64	587.61	600.50	592.16	592.10
586.40	576.37	576.39	593.50	587.75	587.69	600.60	592.16	592.10
586.50	576.38	576.41	593.60	587.75	587.71	600.70	592.16	592.11

PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01
600.80	592.16	592.11	607.80	592.22	592.23	615.00	597.37	597.35
600.90	592.16	592.11	607.90	592.22	592.23	615.10	597.37	597.36
601.00	592.16	592.12	608.00	592.22	592.23	615.20	597.38	597.37
601.20	592.16	592.12	608.20	592.22	592.23	615.30	597.38	597.37
601.30	592.16	592.12	608.30	592.22	592.23	615.50	597.38	597.38
601.40	592.16	592.12	608.40	592.22	592.23	615.60	597.39	597.39
601.50	592.17	592.13	608.50	592.23	592.24	615.70	597.40	597.40
601.60	592.17	592.13	608.60	592.23	592.24	615.80	597.40	597.41
601.70	592.17	592.13	608.70	592.23	592.24	616.00	597.41	597.42
601.80	592.17	592.13	608.80	592.23	592.24	616.20	597.41	597.43
602.00	592.17	592.14	609.00	592.23	592.24	616.30	597.42	597.44
602.20	592.17	592.14	609.10	592.23	592.24	616.40	597.43	597.45
602.30	592.17	592.14	609.20	592.23	592.25	616.50	597.44	597.46
602.40	592.17	592.14	609.30	592.23	592.25	616.60	597.45	597.48
602.50	592.18	592.15	609.40	592.23	592.25	616.80	597.67	597.60
602.60	592.18	592.15	609.50	592.24	592.25	617.00	597.71	597.67
602.70	592.18	592.15	609.60	592.24	592.25	617.10	597.74	597.81
602.80	592.18	592.15	609.80	592.24	592.26	617.20	599.25	599.22
603.00	592.18	592.15	610.00	592.24	592.26	617.30	599.26	599.24
603.10	592.18	592.15	610.10	592.24	592.26	617.40	599.26	599.24
603.20	592.18	592.16	610.20	592.24	592.26	617.50	599.27	599.25
603.30	592.18	592.16	610.30	592.24	592.26	617.60	599.27	599.26
603.40	592.18	592.16	610.40	592.24	592.27	617.80	599.28	599.27
603.50	592.18	592.16	610.50	592.24	592.27	617.90	599.28	599.27
603.60	592.18	592.16	610.60	592.24	592.27	618.00	599.29	599.28
603.80	592.18	592.17	610.80	592.24	592.27	618.10	599.30	599.29
603.90	592.19	592.17	610.90	592.24	592.28	618.20	599.30	599.29
604.00	592.19	592.17	611.00	592.25	592.28	618.30	599.30	599.30
604.10	592.19	592.17	611.10	592.25	592.28	618.40	599.30	599.30
604.20	592.19	592.17	611.20	592.25	592.28	618.60	599.31	599.31
604.30	592.19	592.17	611.30	592.25	592.29	618.70	599.31	599.32
604.40	592.19	592.18	611.40	592.25	592.29	618.80	599.32	599.33
604.50	592.19	592.18	611.60	592.25	592.29	618.90	599.32	599.33
604.60	592.19	592.18	611.70	592.57	592.54	619.00	599.33	599.34
604.70	592.19	592.18	611.80	593.55	592.95	619.10	599.33	599.34
604.80	592.19	592.18	611.90	593.57	592.98	619.20	599.33	599.35
604.90	592.19	592.19	612.10	593.59	593.56	619.30	599.33	599.36
605.10	592.19	592.19	612.20	593.60	593.58	619.40	599.34	599.36
605.20	592.19	592.19	612.30	593.60	593.60	619.50	599.34	599.37
605.30	592.20	592.19	612.40	593.62	593.63	619.60	599.35	599.39
605.40	592.20	592.19	612.50	593.64	593.66	619.70	600.16	599.81
605.50	592.20	592.19	612.60	593.97	593.94	619.90	600.16	600.14
605.60	592.20	592.20	612.70	594.06	594.08	620.00	600.17	600.15
605.70	592.20	592.20	612.90	594.10	594.19	620.10	600.17	600.16
605.90	592.20	592.20	613.00	594.36	594.31	620.20	600.18	600.18
606.10	592.20	592.20	613.10	594.37	594.34	620.30	600.19	600.19
606.20	592.20	592.20	613.20	594.39	594.38	620.40	600.21	600.21
606.30	592.21	592.20	613.30	594.42	594.44	620.50	600.22	600.22
606.40	592.21	592.21	613.40	594.65	594.54	620.70	600.22	600.23
606.50	592.21	592.21	613.50	594.66	594.63	620.90	600.23	600.24
606.60	592.21	592.21	613.70	594.68	594.67	621.00	600.23	600.25
606.70	592.21	592.21	613.90	594.71	594.73	621.10	600.25	600.36
606.90	592.21	592.21	614.00	595.51	595.25	621.30	602.38	602.25
607.00	592.21	592.21	614.10	596.28	596.26	621.40	602.39	602.41
607.10	592.21	592.22	614.20	596.31	596.33	621.50	602.40	602.39
607.20	592.21	592.22	614.30	596.33	596.42	621.70	602.42	602.41
607.30	592.22	592.22	614.40	597.21	597.12	621.80	602.45	602.43
607.40	592.22	592.22	614.70	597.31	597.32	621.90	602.47	602.45
607.50	592.22	592.22	614.80	597.36	597.33	622.00	602.48	602.46
607.70	592.22	592.22	614.90	597.37	597.34	622.10	602.49	602.47

PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01
622.20	602.49	602.48	629.50	606.37	606.36	636.80	606.45	606.49
622.30	602.50	602.49	629.60	606.38	606.36	636.90	606.45	606.49
622.50	602.51	602.51	629.70	606.38	606.36	637.00	606.45	606.49
622.60	602.52	602.52	629.80	606.38	606.36	637.10	606.45	606.50
622.70	602.53	602.53	629.90	606.38	606.37	637.30	606.45	606.50
622.80	602.54	602.55	630.00	606.38	606.37	637.40	606.45	606.51
623.10	602.54	602.56	630.10	606.38	606.37	637.50	606.98	606.71
623.20	602.55	602.58	630.20	606.38	606.37	637.60	607.00	606.90
623.30	603.35	603.06	630.30	606.38	606.37	637.80	607.04	607.12
623.40	603.36	603.33	630.40	606.39	606.38	637.90	608.13	607.94
623.50	603.37	603.34	630.50	606.39	606.38	638.00	608.16	608.17
623.60	603.38	603.36	630.60	606.39	606.38	638.10	608.22	608.27
623.80	603.38	603.37	630.80	606.39	606.38	638.20	608.70	608.71
623.90	603.39	603.38	630.90	606.39	606.38	638.30	609.25	609.22
624.00	603.39	603.38	631.00	606.39	606.38	638.60	609.26	609.24
624.10	603.40	603.39	631.10	606.39	606.39	638.70	609.27	609.25
624.20	603.41	603.41	631.20	606.39	606.39	638.80	609.27	609.26
624.30	603.42	603.42	631.30	606.39	606.39	638.90	609.28	609.27
624.40	603.42	603.43	631.40	606.40	606.39	639.00	609.29	609.29
624.60	603.43	603.44	631.60	606.40	606.39	639.10	609.30	609.30
624.80	603.43	603.45	631.80	606.40	606.40	639.20	609.30	609.31
624.90	603.44	603.47	631.90	606.40	606.40	639.40	609.30	609.32
625.00	603.86	603.83	632.00	606.40	606.40	639.60	609.31	609.33
625.10	603.87	603.85	632.10	606.40	606.40	639.70	609.32	609.34
625.20	603.87	603.86	632.20	606.40	606.40	639.80	609.33	609.35
625.30	603.87	603.87	632.30	606.40	606.41	639.90	609.34	609.36
625.40	603.88	603.87	632.60	606.40	606.41	640.00	609.34	609.37
625.60	603.88	603.88	632.70	606.41	606.41	640.10	609.34	609.39
625.70	603.89	603.90	632.80	606.41	606.41	640.20	609.35	609.40
625.80	603.91	603.92	632.90	606.41	606.41	640.40	609.35	609.43
625.90	603.92	603.93	633.00	606.41	606.42	640.50	612.66	612.62
626.00	603.92	603.94	633.10	606.41	606.42	640.60	612.68	612.66
626.10	603.93	603.95	633.20	606.41	606.42	640.70	612.69	612.67
626.20	603.93	603.97	633.40	606.41	606.42	640.80	612.69	612.68
626.40	603.94	603.98	633.50	606.42	606.42	640.90	612.69	612.69
626.50	603.95	604.01	633.60	606.42	606.43	641.00	612.70	612.70
626.60	604.80	604.47	633.70	606.42	606.43	641.20	612.71	612.72
626.70	606.02	606.06	633.80	606.42	606.43	641.30	612.73	612.75
626.90	606.07	606.16	633.90	606.42	606.43	641.40	612.74	612.77
627.00	606.10	606.16	634.00	606.42	606.43	641.50	612.76	612.79
627.10	606.12	606.19	634.20	606.42	606.44	641.70	612.78	612.82
627.20	606.35	606.30	634.30	606.42	606.44	641.80	612.78	612.85
627.30	606.35	606.30	634.40	606.43	606.44	641.90	612.79	612.86
627.40	606.35	606.31	634.50	606.43	606.44	642.00	612.79	612.92
627.50	606.35	606.31	634.70	606.43	606.45	642.10	617.16	614.86
627.70	606.35	606.32	634.80	606.43	606.45	642.20	617.18	617.23
627.80	606.36	606.32	634.90	606.43	606.45	642.30	617.20	617.20
627.90	606.36	606.32	635.00	606.43	606.45	642.50	617.21	617.22
628.00	606.36	606.33	635.10	606.43	606.45	642.60	617.24	617.31
628.10	606.36	606.33	635.20	606.43	606.46	642.70	617.56	617.53
628.20	606.36	606.33	635.50	606.43	606.46	642.80	617.58	617.59
628.30	606.36	606.33	635.70	606.43	606.46	642.90	617.61	617.65
628.50	606.36	606.34	635.80	606.43	606.46	643.00	617.63	617.73
628.70	606.36	606.34	635.90	606.44	606.47	643.10	617.64	617.70
628.80	606.37	606.34	636.00	606.44	606.47	643.30	617.68	617.96
628.90	606.37	606.35	636.20	606.44	606.47	643.50	621.95	621.84
629.00	606.37	606.35	636.30	606.44	606.47	643.60	621.96	621.87
629.10	606.37	606.35	636.50	606.44	606.48	643.70	621.97	621.89
629.20	606.37	606.35	636.60	606.44	606.48	643.80	621.97	621.90
629.30	606.37	606.35	636.70	606.44	606.48	643.90	621.98	621.92



PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01
644.00	621.98	621.93	651.60	627.38	627.37	659.60	627.44	627.48
644.10	621.98	621.94	651.70	627.38	627.37	659.70	627.44	627.48
644.30	621.98	621.95	651.80	627.38	627.37	659.90	627.44	627.48
644.40	621.99	621.96	651.90	627.38	627.37	660.00	627.45	627.49
644.50	622.00	621.97	652.10	627.38	627.37	660.10	627.45	627.49
644.60	622.00	621.98	652.20	627.38	627.38	660.50	627.45	627.49
644.70	622.00	621.99	652.30	627.39	627.38	660.60	627.45	627.50
644.80	622.00	621.99	652.40	627.39	627.38	660.70	627.45	627.50
644.90	622.01	622.00	652.60	627.39	627.38	660.80	627.45	627.51
645.00	622.01	622.01	652.80	627.39	627.38	660.90	627.45	627.52
645.10	622.01	622.02	652.90	627.39	627.39	661.00	628.43	628.00
645.20	622.02	622.03	653.00	627.39	627.39	661.20	628.44	628.14
645.30	622.02	622.03	653.10	627.40	627.39	661.50	628.47	628.46
645.40	622.02	622.04	653.40	627.40	627.39	661.60	628.52	628.53
645.60	622.03	622.05	653.50	627.40	627.39	661.80	628.57	628.58
645.70	622.03	622.06	653.60	627.40	627.40	661.90	628.60	628.72
645.80	622.03	622.07	653.70	627.40	627.40	662.00	629.85	629.78
645.90	622.03	622.07	653.80	627.40	627.40	662.20	629.85	629.78
646.00	622.04	622.09	654.00	627.40	627.40	662.30	629.85	629.79
646.10	622.05	622.10	654.40	627.40	627.40	662.40	629.85	629.79
646.20	622.05	622.12	654.50	627.41	627.41	662.60	629.85	629.79
646.40	623.56	622.92	654.60	627.41	627.41	662.70	629.85	629.79
646.60	623.58	623.56	654.70	627.41	627.41	662.80	629.85	629.80
646.70	623.59	623.58	654.80	627.41	627.41	663.00	629.85	629.80
646.80	623.63	623.63	654.90	627.41	627.41	663.10	629.86	629.80
646.90	623.67	623.69	655.00	627.41	627.41	663.20	629.86	629.80
647.00	623.68	623.73	655.20	627.41	627.41	663.30	629.86	629.81
647.10	623.69	623.81	655.30	627.41	627.42	663.60	629.86	629.81
647.40	624.36	624.29	655.40	627.41	627.42	663.70	629.86	629.81
647.50	624.48	624.47	655.50	627.41	627.42	663.80	629.86	629.81
647.60	624.66	624.91	655.60	627.41	627.42	663.90	629.86	629.81
647.70	626.45	625.70	655.80	627.41	627.42	664.00	629.86	629.81
647.80	626.46	626.43	656.00	627.42	627.42	664.10	629.86	629.82
648.20	626.47	626.46	656.10	627.42	627.43	664.50	629.86	629.82
648.30	626.50	626.50	656.20	627.42	627.43	664.60	629.86	629.82
648.40	626.52	626.52	656.30	627.42	627.43	664.70	629.86	629.82
648.50	626.54	626.58	656.60	627.42	627.43	664.90	629.86	629.82
648.60	627.35	627.07	656.70	627.42	627.43	665.10	629.86	629.82
648.70	627.35	627.30	656.80	627.42	627.43	665.30	629.86	629.83
648.90	627.35	627.31	656.90	627.42	627.44	665.40	629.87	629.83
649.00	627.35	627.31	657.00	627.42	627.44	665.50	629.87	629.83
649.10	627.35	627.32	657.10	627.42	627.44	665.60	629.87	629.83
649.20	627.36	627.32	657.30	627.42	627.44	665.80	629.87	629.83
649.30	627.36	627.32	657.40	627.42	627.44	665.90	629.87	629.83
649.50	627.36	627.33	657.50	627.43	627.44	666.20	629.87	629.83
649.60	627.36	627.33	657.60	627.43	627.45	666.30	629.87	629.84
649.70	627.36	627.33	657.70	627.43	627.45	666.60	629.87	629.84
649.80	627.36	627.33	657.80	627.43	627.45	666.70	629.87	629.84
649.90	627.36	627.34	657.90	627.43	627.45	666.90	629.87	629.84
650.00	627.36	627.34	658.30	627.43	627.45	667.00	629.87	629.84
650.10	627.36	627.34	658.40	627.43	627.46	667.10	629.87	629.84
650.30	627.36	627.34	658.50	627.43	627.46	667.20	629.87	629.84
650.60	627.36	627.35	658.60	627.43	627.46	667.50	629.88	629.84
650.70	627.37	627.35	658.70	627.44	627.46	667.70	629.88	629.85
650.80	627.37	627.35	658.80	627.44	627.46	667.80	629.88	629.85
650.90	627.37	627.35	658.90	627.44	627.47	667.90	629.88	629.85
651.00	627.37	627.36	659.10	627.44	627.47	668.00	629.88	629.85
651.10	627.37	627.36	659.20	627.44	627.47	668.20	629.88	629.85
651.40	627.37	627.36	659.30	627.44	627.47	668.30	629.88	629.85
651.50	627.38	627.36	659.40	627.44	627.48	668.40	629.88	629.85

PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01
668.50	629.88	629.85	677.30	629.92	629.91	688.10	630.30	630.21
668.60	629.88	629.85	677.40	629.92	629.92	688.20	630.32	630.35
668.70	629.88	629.86	677.50	629.92	629.92	688.30	630.32	630.37
668.80	629.88	629.86	677.60	629.92	629.92	688.70	630.34	630.40
669.00	629.88	629.86	677.80	629.92	629.92	688.90	630.35	630.44
669.30	629.88	629.86	677.90	629.92	629.92	689.00	630.59	630.67
669.40	629.88	629.86	678.00	629.92	629.92	689.10	631.05	630.94
669.50	629.89	629.86	678.20	629.92	629.92	689.20	631.05	630.97
669.60	629.89	629.86	678.60	629.92	629.92	689.50	631.05	630.98
669.70	629.89	629.86	678.70	629.92	629.92	689.60	631.06	631.00
669.80	629.89	629.86	678.80	629.92	629.92	689.70	631.06	631.02
670.00	629.89	629.87	678.90	629.92	629.92	689.80	631.07	631.03
670.10	629.89	629.87	679.10	629.92	629.93	690.00	631.07	631.04
670.20	629.89	629.87	679.20	629.92	629.93	690.10	631.07	631.05
670.30	629.89	629.87	679.30	629.92	629.93	690.20	631.07	631.06
670.40	629.89	629.87	679.40	629.93	629.93	690.30	631.08	631.07
670.60	629.89	629.87	679.50	629.93	629.93	690.40	631.09	631.08
670.80	629.89	629.87	679.60	629.93	629.93	690.50	631.10	631.09
670.90	629.89	629.87	680.10	629.93	629.93	690.80	631.10	631.10
671.00	629.89	629.87	680.20	629.93	629.93	691.10	631.10	631.11
671.10	629.89	629.87	680.30	629.93	629.93	691.20	631.11	631.12
671.30	629.89	629.87	680.60	629.93	629.93	691.40	631.11	631.13
671.50	629.89	629.88	680.70	629.93	629.94	691.90	631.12	631.14
671.60	629.89	629.88	680.90	629.93	629.94	692.00	631.13	631.15
671.70	629.89	629.88	681.00	629.93	629.94	692.10	631.13	631.16
671.80	629.90	629.88	681.10	629.93	629.94	692.30	631.14	631.17
671.90	629.90	629.88	681.20	629.93	629.94	692.40	631.14	631.20
672.10	629.90	629.88	681.30	629.93	629.94	692.60	634.60	633.01
672.20	629.90	629.88	681.40	629.93	629.94	692.80	634.62	634.55
672.40	629.90	629.88	681.50	629.93	629.94	692.90	634.63	634.57
672.50	629.90	629.88	681.70	629.93	629.94	693.00	634.64	634.60
672.70	629.90	629.89	681.90	629.93	629.95	693.20	634.65	634.62
672.90	629.90	629.89	682.00	629.93	629.95	693.30	634.66	634.65
673.10	629.90	629.89	682.50	629.93	629.95	693.40	634.67	634.67
673.20	629.90	629.89	682.60	629.94	629.95	693.50	634.70	634.70
673.30	629.90	629.89	682.70	629.94	629.95	693.60	634.71	634.71
673.40	629.90	629.89	683.00	629.94	629.95	693.70	634.71	634.72
673.50	629.90	629.89	683.30	629.94	629.95	694.10	634.72	634.73
673.60	629.90	629.89	683.40	629.94	629.95	694.20	634.72	634.74
673.70	629.90	629.89	683.60	629.94	629.95	694.40	634.73	634.76
673.90	629.91	629.89	683.80	629.94	629.96	694.50	634.74	634.75
674.00	629.91	629.90	684.00	629.94	629.96	694.70	634.74	634.82
674.10	629.91	629.90	684.10	629.94	629.96	694.90	643.75	639.38
674.30	629.91	629.90	684.30	629.94	629.96	695.00	643.76	643.77
674.40	629.91	629.90	684.40	629.94	629.96	695.10	643.77	643.74
674.60	629.91	629.90	684.80	629.94	629.96	695.20	643.78	643.77
674.70	629.91	629.90	684.90	629.94	629.96	695.30	643.79	643.78
674.80	629.91	629.90	685.00	629.94	629.97	695.40	643.79	643.79
674.90	629.91	629.90	685.30	629.94	629.97	695.50	643.80	643.80
675.00	629.91	629.90	685.60	629.94	629.97	695.70	643.80	643.81
675.50	629.91	629.90	685.70	629.95	629.97	695.80	643.82	643.85
675.60	629.91	629.91	685.80	629.95	629.97	695.90	643.83	643.78
675.70	629.91	629.91	685.90	629.95	629.97	696.50	643.84	644.04
676.00	629.91	629.91	686.10	629.95	629.98	696.60	665.45	665.41
676.20	629.91	629.91	686.30	629.95	629.98	697.30	665.45	665.42
676.30	629.91	629.91	686.60	629.95	629.98	697.40	665.45	665.42
676.40	629.92	629.91	687.20	629.95	629.98	697.50	665.45	665.42
676.50	629.92	629.91	687.30	629.95	629.99	698.10	665.45	665.42
677.10	629.92	629.91	687.70	630.25	630.13	698.20	665.45	665.42
677.20	629.92	629.91	688.00	630.28	630.16	698.90	665.46	665.43

PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01	PISA score	NoSmooth	S=0.01
699.00	665.46	665.43	712.10	665.49	665.49	726.10	665.52	679.39
699.10	665.46	665.43	712.20	665.49	665.49	726.20	665.52	680.14
699.30	665.46	665.43	712.30	665.49	665.49	726.80	665.52	680.69
699.60	665.46	665.43	712.60	665.49	665.49	726.90	665.52	681.14
699.70	665.46	665.43	712.70	665.49	665.49	727.00	665.52	681.48
699.90	665.46	665.44	712.80	665.49	665.49	727.10	665.52	682.17
700.00	665.46	665.44	713.00	665.49	665.49	727.90	665.52	682.95
700.10	665.46	665.44	713.10	665.49	665.50	728.50	665.52	683.66
700.40	665.46	665.44	713.40	665.49	665.50	729.20	665.52	684.26
700.50	665.46	665.44	713.60	665.49	665.57	729.30	665.52	684.93
700.60	665.46	665.44	713.70	665.49	665.81	729.60	665.52	685.68
700.70	665.46	665.44	713.80	665.49	666.06	730.00	665.52	686.15
701.10	665.46	665.44	714.00	665.49	666.30	730.30	665.52	687.27
701.20	665.46	665.44	714.10	665.50	666.64	730.90	665.52	688.12
701.30	665.46	665.45	714.20	665.50	666.88	731.00	665.52	688.84
701.50	665.47	665.45	714.50	665.50	667.03	731.10	665.52	689.26
702.10	665.47	665.45	714.70	665.50	667.18	731.60	665.52	689.77
702.20	665.47	665.45	715.00	665.50	667.55	732.40	665.52	690.22
702.80	665.47	665.45	715.20	665.50	667.77	733.10	665.52	690.70
702.90	665.47	665.45	715.30	665.50	667.91	733.20	665.53	691.48
703.00	665.47	665.45	715.40	665.50	668.12	733.90	665.53	692.23
703.10	665.47	665.45	715.50	665.50	668.30	734.00	665.53	692.81
703.20	665.47	665.45	716.00	665.50	668.45	734.10	665.53	693.26
703.30	665.47	665.46	716.10	665.50	668.59	734.50	665.53	693.61
703.60	665.47	665.46	716.20	665.50	668.74	734.70	665.53	694.32
703.70	665.47	665.46	716.90	665.50	668.97	734.80	665.53	694.91
703.90	665.47	665.46	717.00	665.50	669.33	735.20	665.53	695.26
704.10	665.47	665.46	717.60	665.50	669.47	735.50	665.53	695.71
704.30	665.47	665.46	718.00	665.50	669.62	735.60	665.53	696.55
704.40	665.47	665.46	718.30	665.50	669.76	735.90	665.53	697.52
704.60	665.47	665.46	718.40	665.50	670.01	736.00	665.53	698.95
704.80	665.47	665.46	718.50	665.50	670.15	736.30	665.53	699.60
705.10	665.47	665.46	718.80	665.50	670.30	736.50	665.53	700.05
705.20	665.47	665.47	719.20	665.50	670.48	736.70	665.53	700.60
705.40	665.48	665.47	719.70	665.51	670.77	737.00	665.53	701.25
705.80	665.48	665.47	719.90	665.51	670.93	737.20	665.53	702.20
705.90	665.48	665.47	720.00	665.51	671.07	738.00	665.53	703.04
706.00	665.48	665.47	720.10	665.51	671.34	738.10	665.53	703.58
706.30	665.48	665.47	720.40	665.51	671.56	738.40	665.53	704.18
706.70	665.48	665.47	720.70	665.51	671.71	738.60	665.53	704.78
707.00	665.48	665.47	720.80	665.51	671.85	738.80	665.53	705.56
707.40	665.48	665.47	720.90	665.51	672.10	739.40	665.53	706.26
707.90	665.48	665.47	721.10	665.51	672.29	739.50	665.53	707.58
708.20	665.48	665.47	721.50	665.51	672.49	740.20	665.53	708.39
708.30	665.48	665.47	722.00	665.51	672.77	740.90	665.53	709.77
708.40	665.48	665.48	722.20	665.51	673.06	741.00	665.53	710.51
709.00	665.48	665.48	722.60	665.51	673.22	741.20	665.53	711.43
709.20	665.48	665.48	722.90	665.51	673.37	741.40	665.54	711.88
709.70	665.48	665.48	723.00	665.51	673.51	743.30	665.54	712.39
709.90	665.48	665.48	723.10	665.51	673.66	746.30	665.54	712.96
710.00	665.48	665.48	723.80	665.51	673.90	746.40	665.54	713.63
710.10	665.48	665.48	723.90	665.51	674.35	747.20	665.54	714.08
710.60	665.48	665.48	724.60	665.51	674.80	747.30	665.54	714.77
710.70	665.48	665.48	724.70	665.51	675.55	747.70	665.54	715.37
711.30	665.49	665.48	724.90	665.51	676.19	748.20	665.54	716.12
711.40	665.49	665.49	725.00	665.52	676.78	748.30	665.54	717.42
711.50	665.49	665.49	725.30	665.52	677.39	749.00	665.54	718.42
711.60	665.49	665.49	725.40	665.52	677.84	751.60	665.54	719.54
711.80	665.49	665.49	725.60	665.52	678.57	751.90	665.54	720.15
711.90	665.49	665.49	725.80	665.52	678.98	753.50	665.54	720.86

PISA score	NoSmooth	S=0.01
754.30	665.54	722.03
754.40	665.54	722.96
757.30	665.54	723.98
760.50	665.54	724.96
760.60	665.54	725.62
762.10	665.54	726.54
762.20	665.54	727.15
763.40	665.54	729.25
763.60	665.54	730.32
766.70	665.54	731.36
767.70	665.54	733.21
768.30	665.54	734.30
768.90	665.54	735.19
769.50	665.54	735.95
771.10	665.54	736.69
771.30	665.54	738.04
772.60	665.55	738.79
773.00	665.55	740.49
773.70	665.55	741.38
777.00	665.55	746.72
777.10	665.55	748.14
777.50	665.55	751.71
777.60	665.55	754.39
784.60	665.55	761.12
788.50	665.55	763.57
789.20	665.55	768.49
794.70	665.55	771.26
795.50	665.55	774.67
798.70	665.55	777.58
803.30	665.55	790.68
828.40	665.55	802.18

## Appendix K

## Score Conversion Tables from Equipercentile Method – Science as Major Domains

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
190.10	208.67	190.30	270.50	288.41	281.39	292.80	303.31	301.50
191.20	220.11	197.84	270.80	288.46	282.02	293.20	303.35	302.18
203.20	221.92	203.94	270.90	288.49	282.84	293.30	303.39	302.55
204.00	238.56	208.72	271.50	288.60	283.47	293.50	303.44	302.78
208.40	238.67	212.27	271.70	288.79	283.90	293.60	303.49	302.91
209.50	253.86	218.93	273.60	289.14	284.42	293.90	303.64	302.99
213.70	254.39	220.36	274.10	289.55	285.52	294.20	303.82	303.20
218.90	255.96	224.04	274.30	289.68	286.11	294.80	304.30	303.38
220.00	257.50	227.91	274.70	289.98	286.24	295.20	304.49	303.63
220.90	259.25	228.05	275.80	290.08	286.46	295.50	304.58	304.16
225.00	259.85	233.43	276.00	290.26	286.97	295.80	304.68	304.34
227.90	260.75	238.52	277.00	290.35	287.46	296.20	304.90	304.45
228.00	263.80	238.72	277.30	290.74	287.96	296.50	305.07	304.54
228.10	264.05	243.21	277.50	291.72	288.33	297.00	305.21	304.70
234.20	264.37	245.47	277.90	291.87	288.46	297.10	305.27	305.07
238.50	265.32	248.85	278.00	292.02	288.90	297.60	305.34	305.30
238.60	267.37	249.74	278.40	292.07	289.23	297.90	305.50	305.50
238.80	268.10	250.33	279.60	292.11	289.75	298.60	306.01	305.80
243.30	269.19	250.77	280.40	292.14	290.02	299.00	306.09	305.95
244.00	269.32	251.23	280.50	292.49	290.25	299.20	306.42	306.05
248.20	269.36	253.10	281.20	292.76	290.81	299.50	306.60	306.27
249.10	269.81	254.27	281.60	293.19	291.72	299.70	306.71	306.71
249.70	270.69	255.15	282.10	293.37	291.86	299.90	306.74	306.78
250.10	270.84	257.97	282.80	293.51	292.09	300.00	306.77	306.86
250.60	271.27	259.02	283.00	293.59	292.27	300.20	306.79	307.00
250.80	271.57	259.89	283.80	293.77	292.68	300.30	306.82	307.22
251.00	272.88	260.68	283.90	293.92	293.21	300.40	306.93	307.37
252.20	273.79	260.84	284.20	294.08	293.39	300.60	307.25	307.46
253.80	274.12	261.31	284.90	294.42	293.58	300.70	307.33	307.54
254.30	274.97	262.21	285.80	295.38	293.95	300.90	307.39	307.63
254.40	275.97	263.60	286.10	295.61	294.53	301.30	307.42	307.78
256.90	276.62	264.02	286.20	295.84	295.17	301.40	307.46	307.99
258.50	277.11	265.19	286.30	296.10	295.58	302.30	307.54	308.22
259.00	277.55	265.81	286.50	297.21	296.06	302.70	307.71	308.42
259.40	277.80	266.15	286.90	298.05	296.51	302.90	307.79	308.49
260.60	277.92	266.55	287.30	298.64	297.04	303.00	307.89	308.57
260.70	277.99	267.23	287.60	298.94	297.48	303.30	308.10	308.64
260.80	278.23	267.83	288.00	299.12	297.99	303.50	308.28	308.72
261.10	278.49	268.82	288.30	299.42	298.80	304.20	308.34	308.80
261.50	279.14	269.36	288.40	299.67	299.11	304.40	308.40	308.87
262.30	279.89	270.44	288.50	299.84	299.39	304.50	308.43	308.95
263.50	280.41	270.83	288.90	300.04	299.60	304.70	308.57	309.02
263.90	280.67	271.31	289.00	300.16	299.75	305.20	308.63	309.10
264.10	281.97	271.79	289.60	300.22	299.90	305.40	308.67	309.25
265.20	282.71	273.81	289.80	300.36	299.98	305.80	308.72	309.35
265.70	282.92	274.26	290.00	300.41	300.10	306.00	308.78	309.43
266.00	283.79	274.87	290.20	300.52	300.23	306.10	308.85	309.51
266.20	286.11	275.90	290.30	300.64	300.30	306.70	308.89	309.66
266.50	286.16	276.89	290.90	300.81	300.38	306.80	308.93	309.76
267.00	286.21	277.35	291.70	300.93	300.51	306.90	308.98	309.83
267.50	286.27	277.75	291.80	301.35	300.63	307.20	309.07	309.91
267.90	286.90	278.00	291.90	302.04	300.71	307.40	309.16	309.99
268.70	287.37	278.84	292.10	302.75	300.87	307.50	309.32	310.06
269.30	288.18	280.19	292.20	303.18	301.14	307.60	309.48	310.21
269.40	288.34	280.58	292.40	303.24	301.33	307.80	309.71	310.41

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
308.10	309.76	310.49	319.50	320.37	320.03	328.90	327.91	327.55
308.40	309.86	310.89	319.60	320.55	320.23	329.00	327.98	327.63
308.50	309.96	311.18	319.80	320.65	320.42	329.10	328.04	327.71
308.60	310.04	311.41	319.90	320.70	320.50	329.20	328.07	327.86
308.70	310.13	311.86	320.10	320.77	320.57	329.30	328.12	327.96
308.80	310.32	311.97	320.40	320.82	320.65	329.40	328.23	328.03
308.90	310.42	312.05	320.50	320.86	320.75	329.50	328.41	328.11
309.00	310.48	312.26	320.60	320.90	320.90	329.60	328.46	328.19
309.10	310.94	312.79	320.70	320.92	320.98	329.70	328.52	328.33
309.30	311.16	313.02	320.90	320.95	321.05	329.80	328.69	328.44
309.40	311.25	313.20	321.00	320.99	321.13	330.20	328.86	328.52
309.50	311.59	313.33	321.10	321.08	321.21	330.40	328.99	328.59
309.70	311.95	313.41	321.20	321.16	321.28	330.60	329.19	328.74
309.80	312.00	313.56	321.30	321.43	321.42	330.80	329.23	328.85
309.90	312.04	313.66	321.50	321.99	321.54	330.90	329.30	328.92
310.00	312.09	313.80	321.60	322.20	321.68	331.00	329.36	329.00
310.10	312.38	314.01	322.20	322.24	322.14	331.10	329.39	329.07
310.40	312.83	314.08	322.30	322.32	322.27	331.20	329.42	329.15
310.50	313.00	314.16	322.50	322.73	322.39	331.30	329.49	329.23
311.10	313.11	314.27	322.80	322.85	322.56	331.50	329.54	329.30
311.30	313.18	314.41	323.00	322.93	322.79	331.60	329.62	329.38
311.90	313.28	314.49	323.10	323.07	322.94	331.70	329.77	329.46
312.00	313.36	314.57	323.20	323.12	323.05	331.80	329.81	329.53
312.10	313.91	314.68	323.30	323.26	323.13	331.90	329.96	329.61
312.80	314.12	314.85	323.40	323.39	323.20	332.00	330.27	329.68
313.10	314.33	315.08	323.50	323.49	323.28	332.10	330.51	329.76
313.30	314.40	315.17	323.70	323.62	323.35	332.30	330.77	329.95
313.40	314.44	315.25	323.80	323.69	323.43	332.40	330.84	330.23
313.60	314.55	315.35	324.10	323.72	323.51	332.50	330.89	330.38
313.70	314.65	315.50	324.20	323.76	323.67	332.60	330.94	330.53
314.00	314.73	315.73	324.30	323.90	323.76	332.70	330.97	330.69
314.10	314.81	315.85	324.50	324.17	323.91	332.90	331.02	330.82
314.20	314.93	315.93	324.70	324.21	324.11	333.00	331.07	330.90
314.40	315.11	316.00	324.80	324.25	324.19	333.20	331.12	330.97
314.50	315.19	316.08	325.00	324.33	324.27	333.30	331.39	331.05
314.60	315.29	316.21	325.10	324.39	324.38	333.40	331.57	331.12
314.80	315.68	316.37	325.20	324.59	324.54	333.70	331.62	331.20
315.10	315.86	316.51	325.30	324.79	324.69	333.80	331.79	331.28
315.20	315.94	316.59	325.40	325.05	324.77	333.90	331.90	331.40
315.30	316.10	316.66	325.90	325.13	324.90	334.00	331.99	331.53
315.50	316.34	316.90	326.10	325.25	325.02	334.20	332.07	331.60
315.80	316.56	317.23	326.30	325.33	325.10	334.30	332.22	331.68
315.90	316.62	317.38	326.40	325.51	325.18	334.40	332.25	331.76
316.00	316.70	317.47	326.60	325.92	325.25	334.50	332.29	331.83
316.10	317.19	317.59	326.80	326.03	325.33	334.60	332.33	331.91
316.30	317.41	317.76	326.90	326.14	325.43	334.70	332.37	331.99
316.50	317.48	317.99	327.00	326.23	325.82	334.80	332.41	332.06
316.60	317.54	318.07	327.20	326.28	326.02	334.90	332.45	332.18
316.70	317.68	318.20	327.40	326.32	326.17	335.00	332.56	332.31
317.20	318.21	318.33	327.50	326.37	326.31	335.10	332.70	332.39
317.40	318.31	318.41	327.60	326.59	326.39	335.20	332.86	332.47
317.50	318.38	318.56	327.70	326.74	326.53	335.40	332.93	332.54
317.70	318.53	318.66	327.90	326.85	326.68	335.50	333.11	332.62
318.00	318.89	318.83	328.00	326.95	326.82	335.80	333.29	332.69
318.10	319.19	319.13	328.10	327.15	326.89	336.00	333.56	332.84
318.30	319.48	319.44	328.20	327.21	326.97	336.10	333.70	332.95
318.40	319.62	319.56	328.40	327.30	327.09	336.20	333.75	333.05
318.60	319.77	319.68	328.50	327.42	327.25	336.30	333.78	333.20
318.70	319.86	319.81	328.60	327.57	327.40	336.40	333.83	333.27
319.10	320.03	319.89	328.80	327.74	327.48	336.50	333.94	333.35

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
336.60	334.03	333.48	344.20	339.48	339.28	351.30	345.06	344.90
336.70	334.14	333.70	344.30	339.50	339.35	351.40	345.15	344.98
336.80	334.20	333.78	344.40	339.53	339.43	351.50	345.25	345.10
336.90	334.22	333.86	344.60	339.55	339.50	351.60	345.35	345.23
337.00	334.26	333.93	344.70	339.57	339.58	351.70	345.47	345.30
337.10	334.30	334.01	344.80	339.60	339.65	351.90	345.56	345.45
337.40	334.35	334.17	344.90	339.73	339.76	352.00	345.63	345.55
337.60	334.40	334.26	345.00	339.89	339.91	352.10	345.71	345.63
337.70	334.58	334.34	345.20	339.93	339.98	352.20	345.80	345.70
337.80	334.66	334.41	345.30	339.97	340.06	352.30	345.90	345.78
337.90	334.71	334.49	345.50	340.01	340.13	352.50	346.08	345.85
338.00	334.80	334.56	345.60	340.03	340.21	352.70	346.40	345.93
338.10	334.91	334.64	345.70	340.12	340.28	352.80	346.44	346.00
338.20	335.00	334.71	345.80	340.28	340.36	352.90	346.60	346.08
338.40	335.08	334.79	345.90	340.33	340.43	353.00	346.74	346.26
338.50	335.14	334.87	346.00	340.37	340.51	353.10	346.80	346.43
338.60	335.19	334.94	346.10	340.40	340.59	353.20	346.85	346.51
338.80	335.29	335.02	346.40	340.46	340.66	353.30	346.92	346.66
338.90	335.40	335.09	346.50	340.52	340.74	353.40	347.05	346.75
339.10	335.44	335.17	346.70	340.70	340.81	353.50	347.09	346.83
339.20	335.50	335.29	346.80	340.84	340.89	353.60	347.14	346.90
339.30	335.78	335.42	346.90	340.96	340.96	353.70	347.28	346.98
339.40	336.01	335.50	347.00	341.38	341.12	353.80	347.35	347.05
339.50	336.07	335.72	347.10	341.50	341.31	353.90	347.39	347.13
339.60	336.11	335.90	347.20	341.63	341.39	354.00	347.47	347.20
339.70	336.15	336.03	347.30	341.74	341.53	354.10	347.58	347.28
339.90	336.19	336.10	347.40	341.96	341.64	354.20	347.66	347.35
340.00	336.23	336.18	347.50	342.01	341.73	354.30	347.86	347.43
340.10	336.29	336.25	347.60	342.08	341.88	354.40	347.90	347.50
340.20	336.37	336.33	347.70	342.16	341.97	354.50	347.95	347.58
340.30	336.52	336.41	347.80	342.23	342.04	354.60	347.99	347.65
340.40	336.64	336.48	347.90	342.29	342.12	354.70	348.02	347.73
340.50	336.71	336.56	348.00	342.33	342.19	354.80	348.05	347.80
340.60	336.75	336.63	348.10	342.37	342.27	354.90	348.13	347.88
340.70	336.85	336.71	348.20	342.44	342.34	355.00	348.19	347.95
340.80	336.95	336.78	348.30	342.55	342.42	355.10	348.22	348.03
340.90	337.06	336.86	348.40	342.57	342.49	355.20	348.31	348.10
341.00	337.18	336.94	348.50	342.65	342.57	355.40	348.51	348.18
341.30	337.49	337.01	348.60	342.78	342.69	355.50	349.07	348.25
341.40	337.67	337.09	349.00	342.90	342.84	355.60	349.21	348.33
341.60	337.78	337.29	349.10	343.07	342.99	355.70	349.41	348.40
341.70	337.86	337.48	349.20	343.24	343.07	355.80	349.47	348.48
341.90	337.89	337.61	349.40	343.38	343.19	355.90	349.53	348.55
342.00	337.96	337.69	349.50	343.41	343.32	356.00	349.74	348.71
342.10	338.05	337.77	349.60	343.44	343.40	356.10	349.93	349.00
342.20	338.18	337.84	349.70	343.49	343.47	356.20	350.14	349.08
342.30	338.22	337.92	349.80	343.74	343.60	356.30	350.21	349.15
342.40	338.27	337.99	349.90	343.85	343.72	356.50	350.23	349.25
342.50	338.39	338.07	350.00	343.90	343.80	356.60	350.28	349.40
342.60	338.55	338.14	350.10	343.97	343.87	356.70	350.35	349.48
342.80	338.59	338.24	350.20	344.06	343.95	356.80	350.40	349.55
343.00	338.67	338.39	350.30	344.24	344.05	356.90	350.43	349.63
343.10	338.82	338.47	350.40	344.32	344.20	357.00	350.46	349.70
343.30	339.05	338.55	350.50	344.52	344.27	357.10	350.54	349.77
343.40	339.13	338.65	350.60	344.63	344.35	357.20	350.58	349.85
343.50	339.18	338.80	350.80	344.68	344.45	357.30	350.64	349.92
343.70	339.20	338.87	350.90	344.72	344.60	357.40	350.70	350.00
343.80	339.23	339.00	351.00	344.83	344.68	357.50	350.77	350.07
343.90	339.28	339.13	351.10	344.94	344.75	357.60	350.83	350.15
344.00	339.45	339.20	351.20	344.99	344.83	357.70	350.97	350.22

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
357.80	351.01	350.30	364.10	355.46	355.18	370.20	359.68	360.06
357.90	351.06	350.37	364.20	355.65	355.30	370.30	359.75	360.13
358.00	351.12	350.45	364.30	355.67	355.42	370.40	359.93	360.21
358.10	351.19	350.52	364.40	355.70	355.50	370.50	360.03	360.28
358.20	351.22	350.60	364.50	355.76	355.57	370.60	360.09	360.36
358.30	351.26	350.74	364.60	355.82	355.65	370.70	360.15	360.43
358.40	351.30	350.85	364.70	355.95	355.72	370.80	360.30	360.51
358.50	351.35	350.92	364.80	356.00	355.80	370.90	360.43	360.58
358.70	351.41	351.00	364.90	356.02	355.87	371.00	360.50	360.66
358.80	351.44	351.07	365.00	356.06	355.95	371.10	360.54	360.73
358.90	351.50	351.15	365.10	356.15	356.02	371.20	360.60	360.81
359.00	351.55	351.22	365.20	356.21	356.10	371.30	360.64	360.88
359.10	351.56	351.29	365.30	356.23	356.17	371.40	360.68	360.96
359.20	351.59	351.37	365.40	356.27	356.25	371.50	360.72	361.03
359.30	351.65	351.44	365.50	356.33	356.34	371.60	360.80	361.11
359.40	351.76	351.52	365.60	356.39	356.49	371.70	360.91	361.18
359.60	351.83	351.59	365.70	356.46	356.57	371.80	361.02	361.26
359.70	351.87	351.67	365.80	356.54	356.64	371.90	361.11	361.33
359.80	351.94	351.78	365.90	356.60	356.72	372.00	361.15	361.42
359.90	352.01	351.92	366.00	356.64	356.79	372.10	361.22	361.57
360.00	352.07	351.99	366.10	356.77	356.87	372.20	361.29	361.66
360.10	352.13	352.07	366.20	356.88	356.94	372.30	361.37	361.74
360.20	352.24	352.14	366.30	356.96	357.02	372.40	361.50	361.81
360.30	352.29	352.22	366.40	357.12	357.09	372.50	361.61	361.89
360.40	352.39	352.29	366.50	357.19	357.17	372.60	361.69	361.96
360.50	352.68	352.43	366.60	357.28	357.24	372.70	361.82	362.04
360.60	352.80	352.58	366.70	357.35	357.32	372.80	361.96	362.11
360.70	352.89	352.71	366.80	357.41	357.39	372.90	362.05	362.19
360.80	352.98	352.79	366.90	357.50	357.46	373.00	362.11	362.26
360.90	353.02	352.86	367.00	357.59	357.54	373.10	362.16	362.34
361.00	353.07	352.94	367.10	357.66	357.61	373.20	362.26	362.41
361.10	353.19	353.01	367.20	357.77	357.69	373.30	362.37	362.49
361.20	353.26	353.09	367.30	357.86	357.76	373.40	362.46	362.56
361.30	353.31	353.16	367.40	357.91	357.84	373.50	362.52	362.64
361.40	353.38	353.24	367.50	357.96	357.91	373.60	362.60	362.71
361.60	353.47	353.31	367.60	358.02	357.99	373.70	362.70	362.79
361.70	353.49	353.39	367.70	358.08	358.06	373.80	362.77	362.87
361.80	353.53	353.46	367.80	358.14	358.14	373.90	362.84	362.94
361.90	353.61	353.53	367.90	358.24	358.21	374.00	362.96	363.02
362.00	353.67	353.61	368.10	358.29	358.29	374.10	363.06	363.09
362.10	353.73	353.68	368.20	358.37	358.36	374.20	363.12	363.17
362.20	353.78	353.76	368.30	358.42	358.44	374.30	363.15	363.24
362.30	353.82	353.83	368.40	358.49	358.52	374.40	363.18	363.32
362.40	353.88	353.91	368.50	358.60	358.67	374.50	363.22	363.39
362.50	353.95	353.98	368.60	358.70	358.76	374.60	363.27	363.47
362.60	354.06	354.06	368.70	358.79	358.84	374.70	363.31	363.54
362.70	354.19	354.13	368.80	358.86	358.91	374.80	363.40	363.62
362.80	354.24	354.21	368.90	358.89	358.99	374.90	363.50	363.70
362.90	354.38	354.28	369.00	358.96	359.06	375.00	363.54	363.77
363.00	354.53	354.35	369.10	359.08	359.13	375.10	363.61	363.85
363.10	354.56	354.43	369.20	359.13	359.21	375.20	363.70	363.92
363.20	354.64	354.50	369.30	359.16	359.28	375.30	363.75	364.00
363.30	354.67	354.58	369.40	359.18	359.36	375.40	363.77	364.07
363.40	354.70	354.65	369.50	359.20	359.47	375.50	363.83	364.15
363.50	354.74	354.73	369.60	359.22	359.61	375.60	363.97	364.23
363.60	354.90	354.80	369.70	359.24	359.68	375.70	364.03	364.30
363.70	355.01	354.88	369.80	359.32	359.76	375.80	364.09	364.38
363.80	355.10	354.95	369.90	359.38	359.83	375.90	364.16	364.45
363.90	355.16	355.03	370.00	359.52	359.91	376.10	364.25	364.53
364.00	355.20	355.10	370.10	359.63	359.98	376.20	364.30	364.60



PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
376.30	364.41	364.68	382.70	369.11	369.36	388.90	373.61	374.02
376.40	364.50	364.76	382.80	369.20	369.44	389.00	373.74	374.10
376.50	364.56	364.83	382.90	369.24	369.52	389.10	373.80	374.18
376.60	364.61	364.91	383.00	369.28	369.59	389.20	373.83	374.25
376.70	364.65	364.98	383.10	369.35	369.67	389.30	373.86	374.33
376.80	364.74	365.06	383.20	369.39	369.75	389.40	373.97	374.41
376.90	364.80	365.13	383.30	369.41	369.82	389.50	374.03	374.49
377.00	364.85	365.21	383.40	369.44	369.90	389.70	374.20	374.57
377.10	364.91	365.29	383.50	369.48	369.98	389.80	374.27	374.65
377.20	364.95	365.36	383.60	369.53	370.06	389.90	374.34	374.72
377.30	364.99	365.44	383.70	369.58	370.13	390.00	374.46	374.80
377.40	365.04	365.51	383.80	369.63	370.21	390.10	374.60	374.88
377.50	365.12	365.59	383.90	369.68	370.29	390.20	374.79	374.96
377.60	365.23	365.67	384.00	369.76	370.36	390.30	374.94	375.04
377.70	365.28	365.74	384.10	369.80	370.44	390.40	375.01	375.12
377.80	365.30	365.82	384.20	369.84	370.52	390.50	375.13	375.20
377.90	365.33	365.89	384.30	369.90	370.60	390.60	375.22	375.27
378.00	365.39	365.97	384.40	369.96	370.67	390.70	375.28	375.35
378.10	365.45	366.05	384.50	370.07	370.75	390.80	375.38	375.43
378.30	365.52	366.12	384.60	370.18	370.83	390.90	375.53	375.51
378.40	365.74	366.20	384.80	370.26	370.91	391.00	375.67	375.59
378.50	365.82	366.28	384.90	370.32	370.98	391.10	375.74	375.67
378.60	365.98	366.35	385.00	370.36	371.06	391.20	375.80	375.75
378.70	366.07	366.43	385.10	370.42	371.14	391.30	375.99	375.82
378.90	366.14	366.50	385.20	370.49	371.22	391.40	376.16	375.91
379.00	366.30	366.58	385.30	370.54	371.29	391.50	376.22	376.06
379.10	366.39	366.66	385.40	370.61	371.37	391.60	376.27	376.16
379.20	366.45	366.73	385.50	370.72	371.45	391.70	376.33	376.24
379.30	366.50	366.81	385.60	370.84	371.53	391.80	376.42	376.32
379.40	366.55	366.89	385.70	371.00	371.60	391.90	376.47	376.40
379.50	366.61	366.96	385.80	371.13	371.68	392.00	376.52	376.48
379.60	366.76	367.04	385.90	371.25	371.76	392.20	376.65	376.55
379.70	366.84	367.11	386.00	371.37	371.84	392.30	376.67	376.63
379.80	366.98	367.19	386.10	371.48	371.91	392.40	376.70	376.71
379.90	367.08	367.27	386.20	371.57	371.99	392.50	376.73	376.79
380.00	367.16	367.34	386.30	371.68	372.07	392.60	376.79	376.87
380.10	367.28	367.42	386.40	371.85	372.15	392.70	376.86	376.95
380.20	367.34	367.50	386.50	371.91	372.23	392.80	376.96	377.03
380.30	367.39	367.57	386.60	371.97	372.30	392.90	377.06	377.11
380.40	367.48	367.65	386.70	372.01	372.38	393.00	377.15	377.19
380.50	367.55	367.73	386.80	372.04	372.46	393.10	377.21	377.26
380.60	367.57	367.80	386.90	372.14	372.54	393.20	377.28	377.34
380.70	367.60	367.88	387.00	372.25	372.61	393.30	377.46	377.42
380.80	367.69	368.01	387.10	372.48	372.69	393.40	377.53	377.50
380.90	367.82	368.13	387.20	372.56	372.77	393.50	377.60	377.58
381.00	367.89	368.21	387.30	372.61	372.85	393.60	377.71	377.66
381.10	368.02	368.29	387.40	372.69	372.93	393.70	377.80	377.74
381.20	368.15	368.36	387.50	372.75	373.00	393.80	377.86	377.82
381.40	368.23	368.44	387.60	372.77	373.08	393.90	377.93	377.90
381.50	368.31	368.52	387.70	372.82	373.16	394.00	378.01	377.98
381.70	368.39	368.59	387.80	372.86	373.24	394.10	378.06	378.05
381.80	368.46	368.67	387.90	372.92	373.32	394.20	378.13	378.17
381.90	368.52	368.75	388.00	372.99	373.39	394.30	378.28	378.31
382.00	368.56	368.82	388.10	373.09	373.47	394.40	378.37	378.39
382.10	368.60	368.90	388.20	373.17	373.55	394.50	378.47	378.47
382.20	368.62	368.98	388.30	373.26	373.63	394.60	378.53	378.55
382.30	368.70	369.05	388.40	373.32	373.71	394.70	378.58	378.63
382.40	368.87	369.13	388.50	373.38	373.78	394.80	378.67	378.72
382.50	368.94	369.21	388.60	373.45	373.86	394.90	378.79	378.88
382.60	369.00	369.29	388.80	373.52	373.94	395.00	378.92	378.97

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
395.10	379.03	379.05	401.20	384.05	384.03	407.20	389.65	389.05
395.20	379.10	379.13	401.30	384.16	384.11	407.30	389.77	389.13
395.30	379.13	379.21	401.40	384.28	384.19	407.40	389.87	389.21
395.40	379.16	379.28	401.50	384.32	384.27	407.50	389.99	389.29
395.50	379.25	379.36	401.60	384.34	384.35	407.70	390.08	389.37
395.60	379.35	379.44	401.70	384.44	384.43	407.80	390.15	389.45
395.70	379.39	379.52	401.80	384.48	384.51	407.90	390.28	389.56
395.80	379.43	379.60	401.90	384.52	384.59	408.00	390.34	389.71
395.90	379.47	379.68	402.00	384.59	384.74	408.10	390.40	389.79
396.00	379.55	379.76	402.10	384.72	384.85	408.20	390.47	389.87
396.10	379.68	379.84	402.20	384.87	384.93	408.30	390.54	389.95
396.20	379.79	379.92	402.30	384.96	385.01	408.40	390.63	390.03
396.30	379.87	380.00	402.40	385.04	385.09	408.50	390.68	390.11
396.40	379.92	380.08	402.50	385.11	385.17	408.60	390.74	390.19
396.50	379.98	380.16	402.60	385.24	385.25	408.70	390.80	390.27
396.60	380.02	380.24	402.70	385.35	385.33	408.80	390.87	390.36
396.70	380.14	380.32	402.80	385.48	385.41	408.90	390.96	390.44
396.80	380.22	380.40	402.90	385.58	385.49	409.00	391.03	390.52
396.90	380.27	380.48	403.00	385.63	385.57	409.10	391.08	390.60
397.00	380.34	380.56	403.10	385.70	385.65	409.20	391.15	390.68
397.10	380.47	380.63	403.20	385.82	385.73	409.30	391.19	390.76
397.20	380.58	380.71	403.30	385.94	385.81	409.40	391.24	390.84
397.30	380.68	380.79	403.40	386.10	385.89	409.50	391.30	390.92
397.40	380.75	380.87	403.50	386.18	385.97	409.60	391.41	391.00
397.60	380.87	380.95	403.60	386.21	386.05	409.70	391.56	391.08
397.70	380.97	381.03	403.70	386.28	386.13	409.80	391.71	391.16
397.80	381.15	381.11	403.80	386.36	386.21	409.90	391.82	391.24
397.90	381.35	381.19	403.90	386.47	386.29	410.00	391.85	391.32
398.00	381.43	381.34	404.00	386.56	386.37	410.10	391.92	391.41
398.10	381.52	381.45	404.10	386.63	386.45	410.20	391.98	391.49
398.20	381.72	381.56	404.20	386.77	386.53	410.30	392.11	391.57
398.30	381.81	381.71	404.30	386.89	386.61	410.40	392.22	391.65
398.40	381.95	381.79	404.40	386.93	386.69	410.50	392.34	391.73
398.50	382.01	381.87	404.50	386.97	386.77	410.60	392.42	391.81
398.60	382.11	381.95	404.60	387.07	386.85	410.70	392.48	391.89
398.70	382.19	382.03	404.70	387.14	386.93	410.80	392.54	391.97
398.80	382.24	382.11	404.80	387.38	387.01	410.90	392.60	392.10
398.90	382.31	382.19	404.90	387.58	387.10	411.00	392.70	392.23
399.00	382.37	382.27	405.00	387.68	387.18	411.10	392.75	392.31
399.10	382.41	382.35	405.10	387.72	387.26	411.20	392.78	392.39
399.20	382.56	382.43	405.20	387.78	387.34	411.30	392.82	392.48
399.30	382.68	382.51	405.30	387.90	387.42	411.40	392.89	392.56
399.40	382.74	382.59	405.40	388.03	387.50	411.50	392.96	392.64
399.50	382.82	382.67	405.50	388.13	387.58	411.60	393.06	392.72
399.60	382.90	382.75	405.60	388.19	387.66	411.70	393.14	392.80
399.70	382.95	382.83	405.70	388.31	387.74	411.80	393.18	392.88
399.80	382.99	382.91	405.80	388.52	387.82	411.90	393.24	392.96
399.90	383.04	382.99	405.90	388.61	387.90	412.00	393.38	393.04
400.00	383.07	383.07	406.00	388.72	387.98	412.10	393.45	393.12
400.10	383.11	383.15	406.10	388.80	388.06	412.20	393.52	393.20
400.20	383.16	383.23	406.20	388.82	388.14	412.30	393.56	393.28
400.30	383.21	383.31	406.30	388.86	388.22	412.40	393.62	393.37
400.40	383.29	383.39	406.40	388.93	388.30	412.50	393.67	393.45
400.50	383.38	383.47	406.50	389.04	388.38	412.60	393.72	393.53
400.60	383.42	383.55	406.60	389.11	388.46	412.70	393.82	393.61
400.70	383.57	383.63	406.70	389.16	388.54	412.80	393.90	393.69
400.80	383.71	383.71	406.80	389.23	388.65	412.90	393.96	393.77
400.90	383.81	383.79	406.90	389.30	388.80	413.00	394.03	393.85
401.00	383.92	383.87	407.00	389.36	388.89	413.10	394.17	393.93
401.10	384.01	383.95	407.10	389.46	388.97	413.20	394.29	394.01

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
413.30	394.34	394.10	419.40	398.87	399.09	425.50	403.88	404.04
413.40	394.45	394.18	419.60	398.94	399.17	425.60	403.96	404.12
413.50	394.48	394.26	419.70	399.15	399.25	425.70	404.04	404.21
413.60	394.53	394.34	419.80	399.18	399.33	425.80	404.16	404.29
413.70	394.61	394.42	419.90	399.21	399.41	425.90	404.24	404.37
413.80	394.72	394.50	420.00	399.28	399.50	426.00	404.32	404.46
413.90	394.83	394.58	420.10	399.35	399.58	426.10	404.39	404.54
414.00	394.93	394.66	420.20	399.40	399.66	426.20	404.53	404.62
414.10	395.01	394.74	420.30	399.43	399.74	426.30	404.69	404.71
414.20	395.07	394.83	420.40	399.48	399.82	426.40	404.79	404.79
414.30	395.11	394.91	420.50	399.62	399.91	426.50	404.91	404.87
414.40	395.13	394.99	420.60	399.75	399.99	426.60	405.02	404.96
414.50	395.20	395.07	420.70	399.79	400.07	426.70	405.14	405.04
414.60	395.30	395.15	420.80	399.84	400.15	426.80	405.35	405.12
414.70	395.39	395.23	420.90	399.90	400.23	426.90	405.43	405.21
414.80	395.46	395.31	421.00	399.97	400.32	427.00	405.55	405.29
414.90	395.51	395.39	421.10	400.05	400.40	427.10	405.59	405.37
415.00	395.59	395.48	421.20	400.19	400.48	427.20	405.63	405.46
415.10	395.64	395.56	421.30	400.31	400.56	427.30	405.71	405.54
415.20	395.72	395.64	421.40	400.39	400.65	427.40	405.77	405.62
415.30	395.81	395.72	421.50	400.49	400.73	427.50	405.82	405.71
415.40	395.87	395.80	421.60	400.61	400.81	427.60	405.91	405.79
415.50	395.94	395.88	421.70	400.78	400.89	427.70	405.99	405.87
415.60	396.06	395.96	421.80	400.87	400.98	427.80	406.06	405.96
415.70	396.12	396.05	421.90	400.93	401.06	427.90	406.14	406.04
415.80	396.18	396.13	422.00	401.04	401.14	428.00	406.22	406.13
415.90	396.23	396.21	422.10	401.22	401.22	428.10	406.30	406.21
416.00	396.34	396.29	422.20	401.30	401.31	428.20	406.46	406.29
416.20	396.40	396.37	422.30	401.37	401.39	428.30	406.54	406.38
416.30	396.48	396.45	422.40	401.45	401.47	428.40	406.65	406.46
416.40	396.60	396.53	422.50	401.49	401.55	428.50	406.77	406.54
416.50	396.67	396.62	422.60	401.53	401.64	428.70	406.84	406.63
416.60	396.73	396.70	422.70	401.58	401.72	428.80	406.92	406.71
416.70	396.78	396.78	422.80	401.64	401.80	428.90	406.99	406.80
416.80	396.84	396.86	422.90	401.69	401.88	429.00	407.07	406.88
416.90	396.92	396.94	423.00	401.75	401.97	429.10	407.14	406.96
417.00	396.97	397.02	423.10	401.80	402.05	429.20	407.20	407.05
417.10	397.00	397.10	423.20	401.84	402.13	429.30	407.23	407.13
417.20	397.03	397.19	423.30	401.91	402.21	429.40	407.29	407.22
417.30	397.10	397.27	423.40	401.98	402.30	429.50	407.36	407.30
417.40	397.16	397.35	423.50	402.04	402.38	429.60	407.39	407.38
417.50	397.21	397.46	423.60	402.16	402.46	429.70	407.41	407.47
417.60	397.24	397.61	423.70	402.26	402.55	429.80	407.50	407.61
417.70	397.33	397.69	423.80	402.36	402.63	429.90	407.70	407.74
417.80	397.43	397.78	423.90	402.43	402.71	430.00	407.77	407.82
417.90	397.57	397.86	424.00	402.57	402.79	430.10	407.85	407.91
418.00	397.69	397.94	424.10	402.65	402.88	430.20	407.92	407.99
418.10	397.84	398.02	424.20	402.79	402.96	430.30	408.01	408.07
418.20	397.93	398.10	424.30	402.95	403.04	430.40	408.16	408.16
418.30	398.01	398.18	424.40	403.06	403.13	430.50	408.23	408.24
418.40	398.12	398.27	424.50	403.11	403.21	430.60	408.29	408.33
418.50	398.26	398.35	424.60	403.14	403.29	430.70	408.37	408.41
418.60	398.32	398.43	424.70	403.19	403.37	430.80	408.46	408.50
418.70	398.37	398.51	424.80	403.30	403.46	430.90	408.55	408.58
418.80	398.43	398.59	424.90	403.40	403.54	431.00	408.68	408.67
418.90	398.47	398.68	425.00	403.46	403.62	431.10	408.75	408.75
419.00	398.52	398.76	425.10	403.60	403.71	431.20	408.79	408.83
419.10	398.61	398.84	425.20	403.69	403.79	431.30	408.85	408.92
419.20	398.73	398.92	425.30	403.77	403.87	431.40	408.93	409.00
419.30	398.81	399.00	425.40	403.83	403.96	431.50	408.96	409.09

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
431.60	409.02	409.17	437.70	414.02	414.30	443.70	419.05	419.74
431.70	409.09	409.26	437.80	414.05	414.39	443.80	419.23	419.83
431.80	409.14	409.34	437.90	414.09	414.48	443.90	419.30	419.92
432.00	409.16	409.43	438.00	414.16	414.56	444.00	419.36	420.00
432.10	409.20	409.51	438.10	414.24	414.65	444.10	419.57	420.09
432.20	409.23	409.60	438.20	414.30	414.74	444.20	419.72	420.18
432.30	409.27	409.68	438.30	414.39	414.82	444.30	419.76	420.27
432.40	409.35	409.77	438.40	414.51	414.91	444.40	419.80	420.36
432.50	409.42	409.85	438.50	414.61	414.99	444.50	419.88	420.45
432.60	409.56	409.94	438.60	414.72	415.08	444.60	420.00	420.53
432.70	409.66	410.02	438.70	414.87	415.17	444.70	420.11	420.62
432.80	409.71	410.11	438.80	414.96	415.25	444.80	420.22	420.71
432.90	409.78	410.19	438.90	415.09	415.34	444.90	420.43	420.80
433.00	409.90	410.28	439.00	415.20	415.43	445.00	420.60	420.89
433.10	409.97	410.36	439.10	415.24	415.52	445.10	420.71	420.98
433.20	410.00	410.45	439.20	415.34	415.60	445.20	420.79	421.06
433.30	410.04	410.53	439.30	415.41	415.69	445.30	420.88	421.15
433.40	410.09	410.62	439.40	415.54	415.78	445.40	420.94	421.24
433.50	410.16	410.70	439.50	415.66	415.86	445.50	421.07	421.33
433.60	410.30	410.79	439.60	415.74	415.95	445.60	421.16	421.42
433.70	410.42	410.87	439.70	415.80	416.07	445.70	421.29	421.51
433.80	410.53	410.96	439.80	415.90	416.22	445.80	421.38	421.60
433.90	410.64	411.04	439.90	416.07	416.31	445.90	421.43	421.68
434.00	410.73	411.13	440.00	416.27	416.40	446.00	421.53	421.77
434.10	410.81	411.21	440.10	416.34	416.48	446.10	421.63	421.86
434.20	410.99	411.30	440.20	416.38	416.57	446.20	421.73	421.95
434.30	411.09	411.38	440.30	416.45	416.66	446.30	421.81	422.04
434.40	411.16	411.47	440.40	416.54	416.75	446.40	421.88	422.13
434.50	411.21	411.55	440.50	416.63	416.83	446.50	422.03	422.22
434.60	411.31	411.64	440.60	416.71	416.92	446.60	422.15	422.31
434.70	411.44	411.72	440.70	416.80	417.01	446.70	422.29	422.40
434.80	411.54	411.81	440.80	416.86	417.09	446.80	422.45	422.48
434.90	411.62	411.90	440.90	416.89	417.18	446.90	422.55	422.57
435.00	411.67	411.98	441.00	416.93	417.27	447.00	422.72	422.66
435.10	411.75	412.07	441.10	416.98	417.36	447.10	422.84	422.75
435.20	411.91	412.15	441.20	417.04	417.44	447.20	422.99	422.84
435.30	412.01	412.24	441.30	417.09	417.53	447.30	423.07	422.93
435.40	412.08	412.32	441.40	417.17	417.62	447.40	423.13	423.02
435.50	412.11	412.41	441.50	417.23	417.71	447.50	423.20	423.11
435.60	412.18	412.50	441.60	417.32	417.79	447.60	423.28	423.20
435.70	412.28	412.58	441.70	417.45	417.88	447.70	423.37	423.29
435.80	412.33	412.67	441.80	417.52	417.97	447.80	423.46	423.38
435.90	412.40	412.75	441.90	417.66	418.06	447.90	423.54	423.47
436.00	412.46	412.84	442.00	417.77	418.14	448.00	423.70	423.55
436.10	412.54	412.92	442.10	417.81	418.23	448.10	423.77	423.64
436.20	412.66	413.01	442.20	417.86	418.32	448.20	423.81	423.73
436.30	412.74	413.10	442.30	417.91	418.41	448.30	423.89	423.82
436.40	412.81	413.18	442.40	417.95	418.50	448.40	424.02	423.91
436.50	412.93	413.27	442.50	417.99	418.58	448.50	424.13	424.00
436.60	413.03	413.35	442.60	418.06	418.67	448.60	424.23	424.09
436.70	413.09	413.44	442.70	418.16	418.76	448.70	424.30	424.18
436.80	413.21	413.53	442.80	418.31	418.85	448.80	424.36	424.27
436.90	413.35	413.61	442.90	418.42	418.93	448.90	424.45	424.36
437.00	413.47	413.70	443.00	418.49	419.02	449.00	424.53	424.45
437.10	413.55	413.79	443.10	418.58	419.11	449.10	424.57	424.54
437.20	413.63	413.87	443.20	418.67	419.20	449.20	424.60	424.63
437.30	413.71	413.96	443.30	418.74	419.29	449.30	424.63	424.72
437.40	413.75	414.04	443.40	418.80	419.37	449.40	424.75	424.81
437.50	413.82	414.13	443.50	418.87	419.53	449.50	424.92	424.90
437.60	413.97	414.22	443.60	418.97	419.65	449.60	425.01	424.99

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
449.70	425.12	425.08	455.70	430.85	430.60	461.70	436.62	436.18
449.80	425.20	425.17	455.80	430.90	430.69	461.80	436.69	436.28
449.90	425.25	425.26	455.90	430.95	430.78	461.90	436.82	436.37
450.00	425.36	425.35	456.00	431.01	430.87	462.00	436.97	436.46
450.10	425.44	425.44	456.10	431.12	430.96	462.10	437.07	436.55
450.20	425.50	425.53	456.20	431.22	431.05	462.20	437.14	436.64
450.30	425.58	425.61	456.30	431.30	431.14	462.30	437.18	436.74
450.40	425.67	425.70	456.40	431.40	431.23	462.40	437.22	436.83
450.50	425.76	425.79	456.50	431.50	431.33	462.50	437.27	436.92
450.60	425.84	425.88	456.60	431.62	431.42	462.60	437.35	437.01
450.70	425.91	425.97	456.70	431.81	431.51	462.70	437.46	437.10
450.80	425.98	426.06	456.80	432.03	431.60	462.80	437.55	437.20
450.90	426.12	426.15	456.90	432.17	431.69	462.90	437.64	437.29
451.00	426.24	426.24	457.00	432.31	431.78	463.00	437.71	437.38
451.10	426.35	426.33	457.10	432.40	431.94	463.10	437.78	437.47
451.20	426.41	426.42	457.20	432.49	432.06	463.20	437.87	437.56
451.30	426.50	426.51	457.30	432.63	432.15	463.30	438.02	437.66
451.40	426.59	426.60	457.40	432.76	432.25	463.40	438.09	437.75
451.50	426.67	426.69	457.50	432.88	432.34	463.50	438.18	437.84
451.60	426.80	426.78	457.60	432.99	432.43	463.60	438.33	437.93
451.70	426.89	426.87	457.70	433.08	432.52	463.70	438.45	438.02
451.80	426.96	426.97	457.80	433.23	432.61	463.80	438.57	438.12
451.90	427.01	427.06	457.90	433.35	432.70	463.90	438.76	438.21
452.00	427.06	427.15	458.00	433.38	432.79	464.00	438.84	438.30
452.10	427.18	427.24	458.10	433.43	432.89	464.10	438.89	438.39
452.20	427.24	427.33	458.20	433.50	432.98	464.20	438.96	438.49
452.30	427.29	427.42	458.30	433.54	433.07	464.30	439.02	438.58
452.40	427.35	427.51	458.40	433.60	433.16	464.40	439.09	438.67
452.50	427.52	427.60	458.50	433.71	433.25	464.50	439.17	438.76
452.60	427.63	427.69	458.60	433.81	433.34	464.60	439.26	438.86
452.70	427.70	427.78	458.70	433.93	433.43	464.70	439.31	438.95
452.80	427.77	427.87	458.80	434.03	433.53	464.80	439.38	439.04
452.90	427.85	427.96	458.90	434.10	433.62	464.90	439.45	439.13
453.00	427.97	428.05	459.00	434.18	433.71	465.00	439.53	439.22
453.10	428.04	428.14	459.10	434.29	433.80	465.10	439.62	439.32
453.20	428.13	428.23	459.20	434.41	433.89	465.20	439.71	439.41
453.30	428.21	428.32	459.30	434.50	433.98	465.30	439.80	439.50
453.40	428.30	428.41	459.40	434.56	434.07	465.40	439.86	439.59
453.50	428.46	428.50	459.50	434.63	434.17	465.50	439.98	439.69
453.60	428.68	428.68	459.60	434.74	434.26	465.60	440.09	439.78
453.70	428.75	428.78	459.70	434.83	434.35	465.70	440.19	439.87
453.80	428.89	428.87	459.80	434.90	434.44	465.80	440.27	439.96
453.90	428.99	428.96	459.90	435.03	434.53	465.90	440.31	440.06
454.00	429.13	429.05	460.00	435.18	434.62	466.00	440.38	440.15
454.10	429.20	429.14	460.10	435.23	434.72	466.10	440.46	440.24
454.20	429.24	429.24	460.20	435.32	434.81	466.20	440.57	440.33
454.30	429.36	429.33	460.30	435.40	434.90	466.30	440.63	440.43
454.40	429.42	429.42	460.40	435.50	434.99	466.40	440.70	440.52
454.50	429.50	429.51	460.50	435.63	435.08	466.50	440.78	440.61
454.60	429.64	429.60	460.60	435.71	435.17	466.60	440.82	440.71
454.70	429.81	429.69	460.70	435.76	435.27	466.70	440.86	440.80
454.80	429.95	429.78	460.80	435.87	435.36	466.80	440.92	440.89
454.90	430.14	429.87	460.90	435.96	435.45	466.90	441.02	440.98
455.00	430.31	429.96	461.00	436.05	435.54	467.00	441.10	441.08
455.10	430.42	430.05	461.10	436.16	435.63	467.10	441.22	441.17
455.20	430.50	430.14	461.20	436.21	435.72	467.20	441.32	441.26
455.30	430.58	430.23	461.30	436.29	435.82	467.30	441.40	441.35
455.40	430.72	430.32	461.40	436.41	435.91	467.40	441.51	441.45
455.50	430.78	430.42	461.50	436.49	436.00	467.50	441.61	441.54
455.60	430.82	430.51	461.60	436.54	436.09	467.60	441.73	441.63

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
467.70	441.91	441.73	473.70	447.08	447.34	479.70	452.76	453.03
467.80	441.98	441.82	473.80	447.19	447.43	479.80	452.90	453.13
467.90	442.04	441.91	473.90	447.31	447.52	479.90	453.00	453.22
468.00	442.11	442.00	474.00	447.46	447.62	480.00	453.04	453.32
468.10	442.20	442.10	474.10	447.62	447.71	480.10	453.13	453.41
468.20	442.25	442.19	474.20	447.70	447.81	480.20	453.30	453.51
468.30	442.28	442.28	474.30	447.80	447.90	480.30	453.40	453.61
468.40	442.31	442.38	474.40	447.90	448.00	480.40	453.44	453.70
468.50	442.36	442.47	474.50	447.98	448.09	480.50	453.51	453.80
468.60	442.46	442.56	474.60	448.09	448.18	480.60	453.60	453.89
468.70	442.52	442.66	474.70	448.18	448.28	480.70	453.67	453.99
468.80	442.61	442.75	474.80	448.23	448.37	480.80	453.72	454.09
468.90	442.69	442.84	474.90	448.35	448.47	480.90	453.81	454.18
469.00	442.75	442.94	475.00	448.46	448.56	481.00	453.97	454.28
469.10	442.83	443.03	475.10	448.58	448.66	481.10	454.08	454.37
469.20	442.92	443.12	475.20	448.74	448.75	481.20	454.20	454.47
469.30	443.03	443.21	475.30	448.83	448.85	481.30	454.26	454.57
469.40	443.13	443.31	475.40	448.88	448.94	481.40	454.30	454.66
469.50	443.26	443.40	475.50	448.91	449.03	481.50	454.37	454.76
469.60	443.40	443.49	475.60	448.97	449.13	481.60	454.44	454.85
469.70	443.47	443.59	475.70	449.04	449.22	481.70	454.54	454.95
469.80	443.57	443.68	475.80	449.13	449.32	481.80	454.77	455.05
469.90	443.68	443.77	475.90	449.22	449.41	481.90	454.91	455.14
470.00	443.74	443.87	476.00	449.34	449.51	482.00	454.98	455.24
470.10	443.86	443.96	476.10	449.45	449.60	482.10	455.11	455.34
470.20	443.95	444.05	476.20	449.58	449.70	482.20	455.26	455.43
470.30	444.03	444.15	476.30	449.65	449.79	482.30	455.34	455.53
470.40	444.12	444.24	476.40	449.73	449.89	482.40	455.53	455.62
470.50	444.21	444.33	476.50	449.91	449.98	482.50	455.63	455.72
470.60	444.31	444.43	476.60	450.00	450.08	482.60	455.75	455.82
470.70	444.41	444.52	476.70	450.04	450.17	482.70	455.85	455.91
470.80	444.50	444.61	476.80	450.16	450.27	482.80	455.96	456.01
470.90	444.61	444.71	476.90	450.24	450.36	482.90	456.04	456.11
471.00	444.69	444.80	477.00	450.35	450.46	483.00	456.12	456.20
471.10	444.75	444.90	477.10	450.43	450.55	483.10	456.20	456.30
471.20	444.84	444.99	477.20	450.58	450.65	483.20	456.29	456.40
471.30	444.94	445.08	477.30	450.70	450.74	483.30	456.38	456.49
471.40	445.05	445.18	477.40	450.79	450.84	483.40	456.46	456.59
471.50	445.19	445.27	477.50	450.90	450.93	483.50	456.57	456.69
471.60	445.30	445.36	477.60	450.98	451.03	483.60	456.69	456.78
471.70	445.41	445.46	477.70	451.04	451.12	483.70	456.81	456.88
471.80	445.50	445.55	477.80	451.13	451.22	483.80	456.89	456.98
471.90	445.59	445.64	477.90	451.19	451.31	483.90	456.99	457.07
472.00	445.69	445.74	478.00	451.25	451.41	484.00	457.09	457.17
472.10	445.79	445.83	478.10	451.33	451.50	484.10	457.19	457.27
472.20	445.87	445.93	478.20	451.37	451.60	484.20	457.29	457.36
472.30	445.94	446.02	478.30	451.42	451.69	484.30	457.35	457.46
472.40	446.03	446.11	478.40	451.48	451.79	484.40	457.43	457.56
472.50	446.16	446.21	478.50	451.53	451.88	484.50	457.56	457.66
472.60	446.21	446.30	478.60	451.63	451.98	484.60	457.65	457.75
472.70	446.26	446.40	478.70	451.76	452.08	484.70	457.80	457.85
472.80	446.32	446.49	478.80	451.88	452.17	484.80	457.94	457.95
472.90	446.43	446.58	478.90	451.98	452.27	484.90	458.04	458.04
473.00	446.52	446.68	479.00	452.10	452.36	485.00	458.12	458.14
473.10	446.59	446.77	479.10	452.21	452.46	485.10	458.20	458.24
473.20	446.68	446.87	479.20	452.29	452.55	485.20	458.32	458.34
473.30	446.76	446.96	479.30	452.36	452.65	485.30	458.43	458.43
473.40	446.85	447.05	479.40	452.46	452.74	485.40	458.49	458.53
473.50	446.93	447.15	479.50	452.58	452.84	485.50	458.59	458.63
473.60	446.98	447.24	479.60	452.67	452.94	485.60	458.73	458.72

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
485.70	458.85	458.82	491.70	465.15	464.71	497.70	470.33	470.70
485.80	458.89	458.92	491.80	465.23	464.81	497.80	470.46	470.80
485.90	458.95	459.02	491.90	465.35	464.91	497.90	470.55	470.90
486.00	459.06	459.11	492.00	465.41	465.01	498.00	470.63	471.00
486.10	459.16	459.21	492.10	465.46	465.11	498.10	470.74	471.10
486.20	459.28	459.31	492.20	465.54	465.20	498.20	470.83	471.20
486.30	459.40	459.41	492.30	465.67	465.30	498.30	470.92	471.30
486.40	459.49	459.50	492.40	465.73	465.40	498.40	471.03	471.40
486.50	459.60	459.60	492.50	465.78	465.50	498.50	471.16	471.50
486.60	459.80	459.70	492.60	465.84	465.60	498.60	471.28	471.60
486.70	459.95	459.80	492.70	465.98	465.70	498.70	471.44	471.70
486.80	460.01	459.89	492.80	466.10	465.80	498.80	471.57	471.80
486.90	460.06	459.99	492.90	466.17	465.90	498.90	471.70	471.91
487.00	460.13	460.09	493.00	466.22	466.00	499.00	471.79	472.01
487.10	460.27	460.19	493.10	466.29	466.10	499.10	471.91	472.11
487.20	460.40	460.28	493.20	466.38	466.20	499.20	471.99	472.21
487.30	460.50	460.38	493.30	466.46	466.30	499.30	472.05	472.31
487.40	460.61	460.48	493.40	466.54	466.40	499.40	472.17	472.41
487.50	460.76	460.58	493.50	466.59	466.50	499.50	472.30	472.51
487.60	460.82	460.68	493.60	466.64	466.59	499.60	472.43	472.61
487.70	460.92	460.77	493.70	466.71	466.69	499.70	472.51	472.71
487.80	461.01	460.87	493.80	466.83	466.79	499.80	472.57	472.82
487.90	461.11	460.97	493.90	466.97	466.89	499.90	472.65	472.92
488.00	461.18	461.07	494.00	467.04	466.99	500.00	472.76	473.02
488.10	461.23	461.17	494.10	467.11	467.09	500.10	472.90	473.12
488.20	461.32	461.26	494.20	467.16	467.19	500.20	473.00	473.22
488.30	461.48	461.36	494.30	467.21	467.29	500.30	473.07	473.32
488.40	461.65	461.46	494.40	467.26	467.39	500.40	473.20	473.42
488.50	461.73	461.56	494.50	467.33	467.49	500.50	473.31	473.53
488.60	461.82	461.66	494.60	467.47	467.59	500.60	473.42	473.63
488.70	461.90	461.75	494.70	467.53	467.69	500.70	473.51	473.73
488.80	461.96	461.85	494.80	467.57	467.79	500.80	473.60	473.83
488.90	462.10	461.95	494.90	467.62	467.89	500.90	473.69	473.93
489.00	462.22	462.05	495.00	467.69	467.99	501.00	473.77	474.03
489.10	462.32	462.15	495.10	467.78	468.09	501.10	473.87	474.13
489.20	462.45	462.24	495.20	467.86	468.19	501.20	473.97	474.24
489.30	462.61	462.34	495.30	467.95	468.29	501.30	474.02	474.34
489.40	462.73	462.44	495.40	468.07	468.39	501.40	474.09	474.44
489.50	462.84	462.54	495.50	468.18	468.49	501.50	474.16	474.54
489.60	463.00	462.64	495.60	468.29	468.59	501.60	474.26	474.64
489.70	463.09	462.74	495.70	468.34	468.69	501.70	474.38	474.75
489.80	463.16	462.83	495.80	468.40	468.79	501.80	474.49	474.85
489.90	463.25	462.93	495.90	468.50	468.89	501.90	474.58	474.95
490.00	463.33	463.03	496.00	468.60	468.99	502.00	474.66	475.05
490.10	463.43	463.13	496.10	468.71	469.09	502.10	474.72	475.15
490.20	463.52	463.23	496.20	468.88	469.19	502.20	474.78	475.25
490.30	463.61	463.33	496.30	469.03	469.29	502.30	474.87	475.36
490.40	463.73	463.43	496.40	469.12	469.39	502.40	475.03	475.46
490.50	463.84	463.52	496.50	469.19	469.49	502.50	475.12	475.56
490.60	463.93	463.62	496.60	469.27	469.59	502.60	475.25	475.66
490.70	464.14	463.72	496.70	469.34	469.69	502.70	475.36	475.76
490.80	464.28	463.82	496.80	469.42	469.79	502.80	475.47	475.87
490.90	464.38	463.92	496.90	469.53	469.89	502.90	475.55	475.97
491.00	464.50	464.02	497.00	469.63	469.99	503.00	475.64	476.07
491.10	464.59	464.12	497.10	469.71	470.09	503.10	475.82	476.17
491.20	464.68	464.22	497.20	469.81	470.19	503.20	475.94	476.28
491.30	464.79	464.31	497.30	469.92	470.29	503.30	476.07	476.38
491.40	464.87	464.41	497.40	470.04	470.39	503.40	476.25	476.48
491.50	464.95	464.51	497.50	470.15	470.49	503.50	476.38	476.58
491.60	465.06	464.61	497.60	470.25	470.60	503.60	476.47	476.69

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
503.70	476.55	476.79	509.70	482.78	482.98	515.70	489.69	489.26
503.80	476.63	476.89	509.80	482.92	483.08	515.80	489.77	489.36
503.90	476.76	476.99	509.90	483.04	483.19	515.90	489.88	489.47
504.00	476.88	477.09	510.00	483.22	483.29	516.00	489.99	489.57
504.10	477.00	477.20	510.10	483.34	483.40	516.10	490.10	489.68
504.20	477.10	477.30	510.20	483.46	483.50	516.20	490.22	489.79
504.30	477.22	477.40	510.30	483.55	483.61	516.30	490.33	489.89
504.40	477.35	477.51	510.40	483.62	483.71	516.40	490.46	490.00
504.50	477.49	477.61	510.50	483.77	483.81	516.50	490.51	490.10
504.60	477.66	477.71	510.60	483.98	483.92	516.60	490.56	490.21
504.70	477.73	477.81	510.70	484.07	484.02	516.70	490.63	490.31
504.80	477.80	477.92	510.80	484.17	484.13	516.80	490.71	490.42
504.90	477.85	478.02	510.90	484.26	484.23	516.90	490.82	490.52
505.00	477.91	478.12	511.00	484.39	484.33	517.00	490.92	490.63
505.10	478.00	478.22	511.10	484.56	484.44	517.10	491.01	490.73
505.20	478.07	478.33	511.20	484.70	484.54	517.20	491.11	490.84
505.30	478.14	478.43	511.30	484.80	484.65	517.30	491.26	490.94
505.40	478.22	478.53	511.40	484.88	484.75	517.40	491.32	491.05
505.50	478.34	478.64	511.50	484.95	484.86	517.50	491.38	491.16
505.60	478.43	478.74	511.60	485.02	484.96	517.60	491.48	491.26
505.70	478.60	478.84	511.70	485.09	485.06	517.70	491.60	491.37
505.80	478.69	478.94	511.80	485.14	485.17	517.80	491.72	491.47
505.90	478.80	479.05	511.90	485.28	485.27	517.90	491.83	491.58
506.00	478.94	479.15	512.00	485.40	485.38	518.00	491.95	491.68
506.10	479.09	479.25	512.10	485.54	485.48	518.10	492.07	491.79
506.20	479.23	479.36	512.20	485.66	485.59	518.20	492.15	491.89
506.30	479.33	479.46	512.30	485.77	485.69	518.30	492.21	492.00
506.40	479.45	479.56	512.40	485.88	485.80	518.40	492.31	492.11
506.50	479.66	479.67	512.50	486.00	485.90	518.50	492.43	492.21
506.60	479.83	479.77	512.60	486.10	486.01	518.60	492.52	492.32
506.70	479.93	479.87	512.70	486.18	486.11	518.70	492.67	492.42
506.80	480.05	479.98	512.80	486.31	486.22	518.80	492.80	492.53
506.90	480.15	480.08	512.90	486.49	486.32	518.90	492.89	492.63
507.00	480.25	480.18	513.00	486.59	486.42	519.00	492.95	492.74
507.10	480.30	480.29	513.10	486.66	486.53	519.10	493.05	492.85
507.20	480.39	480.39	513.20	486.73	486.63	519.20	493.12	492.95
507.30	480.57	480.49	513.30	486.79	486.74	519.30	493.22	493.06
507.40	480.69	480.60	513.40	486.84	486.84	519.40	493.32	493.16
507.50	480.78	480.70	513.50	486.89	486.95	519.50	493.42	493.27
507.60	480.86	480.80	513.60	486.93	487.05	519.60	493.52	493.38
507.70	480.94	480.91	513.70	487.10	487.16	519.70	493.61	493.48
507.80	481.00	481.01	513.80	487.20	487.26	519.80	493.75	493.59
507.90	481.06	481.11	513.90	487.34	487.37	519.90	493.81	493.69
508.00	481.12	481.22	514.00	487.49	487.47	520.00	493.92	493.80
508.10	481.21	481.32	514.10	487.57	487.58	520.10	494.07	493.91
508.20	481.32	481.42	514.20	487.69	487.68	520.20	494.21	494.01
508.30	481.46	481.53	514.30	487.85	487.79	520.30	494.39	494.12
508.40	481.56	481.63	514.40	487.94	487.89	520.40	494.49	494.22
508.50	481.63	481.73	514.50	488.05	488.00	520.50	494.62	494.33
508.60	481.70	481.84	514.60	488.25	488.10	520.60	494.70	494.44
508.70	481.80	481.94	514.70	488.37	488.21	520.70	494.77	494.54
508.80	481.95	482.05	514.80	488.55	488.31	520.80	494.90	494.65
508.90	482.06	482.15	514.90	488.69	488.42	520.90	495.00	494.75
509.00	482.14	482.25	515.00	488.85	488.52	521.00	495.08	494.86
509.10	482.22	482.36	515.10	488.96	488.63	521.10	495.16	494.97
509.20	482.28	482.46	515.20	489.07	488.73	521.20	495.27	495.07
509.30	482.34	482.56	515.30	489.23	488.84	521.30	495.34	495.18
509.40	482.42	482.67	515.40	489.32	488.94	521.40	495.45	495.28
509.50	482.56	482.77	515.50	489.46	489.05	521.50	495.55	495.39
509.60	482.66	482.88	515.60	489.59	489.15	521.60	495.64	495.50



PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
521.70	495.72	495.60	527.70	502.05	502.00	533.70	508.47	508.45
521.80	495.78	495.71	527.80	502.11	502.11	533.80	508.53	508.56
521.90	495.85	495.81	527.90	502.18	502.21	533.90	508.61	508.66
522.00	495.92	495.92	528.00	502.27	502.32	534.00	508.71	508.77
522.10	496.05	496.03	528.10	502.37	502.43	534.10	508.78	508.88
522.20	496.10	496.13	528.20	502.49	502.54	534.20	508.87	508.99
522.30	496.17	496.24	528.30	502.59	502.64	534.30	508.99	509.09
522.40	496.29	496.35	528.40	502.67	502.75	534.40	509.08	509.20
522.50	496.42	496.45	528.50	502.77	502.86	534.50	509.20	509.31
522.60	496.54	496.56	528.60	502.89	502.96	534.60	509.34	509.42
522.70	496.73	496.67	528.70	502.99	503.07	534.70	509.48	509.53
522.80	496.82	496.77	528.80	503.12	503.18	534.80	509.61	509.63
522.90	496.92	496.88	528.90	503.26	503.29	534.90	509.72	509.74
523.00	497.04	496.98	529.00	503.33	503.39	535.00	509.81	509.85
523.10	497.17	497.09	529.10	503.38	503.50	535.10	509.93	509.96
523.20	497.32	497.20	529.20	503.43	503.61	535.20	510.10	510.07
523.30	497.49	497.30	529.30	503.53	503.72	535.30	510.21	510.17
523.40	497.62	497.41	529.40	503.75	503.82	535.40	510.31	510.28
523.50	497.69	497.52	529.50	503.91	503.93	535.50	510.42	510.39
523.60	497.79	497.62	529.60	504.08	504.04	535.60	510.59	510.50
523.70	497.88	497.73	529.70	504.18	504.14	535.70	510.75	510.61
523.80	497.95	497.84	529.80	504.29	504.25	535.80	510.88	510.71
523.90	498.05	497.94	529.90	504.41	504.36	535.90	510.94	510.82
524.00	498.13	498.05	530.00	504.51	504.47	536.00	510.99	510.93
524.10	498.28	498.16	530.10	504.62	504.57	536.10	511.09	511.04
524.20	498.37	498.26	530.20	504.69	504.68	536.20	511.19	511.15
524.30	498.44	498.37	530.30	504.86	504.79	536.30	511.25	511.25
524.40	498.51	498.48	530.40	504.93	504.90	536.40	511.35	511.36
524.50	498.57	498.58	530.50	505.00	505.00	536.50	511.46	511.47
524.60	498.62	498.69	530.60	505.10	505.11	536.60	511.56	511.58
524.70	498.68	498.79	530.70	505.24	505.22	536.70	511.62	511.69
524.80	498.74	498.90	530.80	505.32	505.33	536.80	511.68	511.80
524.90	498.85	499.01	530.90	505.43	505.43	536.90	511.80	511.90
525.00	498.98	499.11	531.00	505.51	505.54	537.00	511.89	512.01
525.10	499.07	499.22	531.10	505.59	505.65	537.10	511.95	512.12
525.20	499.17	499.33	531.20	505.68	505.76	537.20	512.05	512.23
525.30	499.28	499.44	531.30	505.76	505.86	537.30	512.16	512.34
525.40	499.40	499.54	531.40	505.86	505.97	537.40	512.24	512.44
525.50	499.51	499.65	531.50	505.94	506.08	537.50	512.37	512.55
525.60	499.60	499.76	531.60	506.02	506.19	537.60	512.46	512.66
525.70	499.72	499.86	531.70	506.12	506.29	537.70	512.57	512.77
525.80	499.86	499.97	531.80	506.24	506.40	537.80	512.65	512.88
525.90	499.99	500.08	531.90	506.42	506.51	537.90	512.76	512.99
526.00	500.11	500.18	532.00	506.53	506.62	538.00	512.96	513.09
526.10	500.24	500.29	532.10	506.67	506.72	538.10	513.13	513.20
526.20	500.32	500.40	532.20	506.76	506.83	538.20	513.23	513.31
526.30	500.42	500.50	532.30	506.85	506.94	538.30	513.37	513.42
526.40	500.56	500.61	532.40	506.94	507.05	538.40	513.50	513.53
526.50	500.71	500.72	532.50	507.06	507.15	538.50	513.65	513.64
526.60	500.86	500.82	532.60	507.17	507.26	538.60	513.71	513.74
526.70	500.99	500.93	532.70	507.27	507.37	538.70	513.79	513.85
526.80	501.10	501.04	532.80	507.38	507.48	538.80	513.88	513.96
526.90	501.25	501.14	532.90	507.46	507.59	538.90	514.00	514.07
527.00	501.37	501.25	533.00	507.55	507.69	539.00	514.19	514.18
527.10	501.59	501.36	533.10	507.62	507.80	539.10	514.28	514.29
527.20	501.69	501.47	533.20	507.78	507.91	539.20	514.36	514.39
527.30	501.79	501.57	533.30	507.98	508.02	539.30	514.50	514.50
527.40	501.88	501.68	533.40	508.13	508.12	539.40	514.69	514.61
527.50	501.93	501.79	533.50	508.24	508.23	539.50	514.80	514.72
527.60	501.97	501.89	533.60	508.36	508.34	539.60	514.92	514.83

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
539.70	515.06	514.94	545.70	521.76	521.46	551.70	527.63	528.01
539.80	515.15	515.05	545.80	521.84	521.57	551.80	527.85	528.12
539.90	515.21	515.15	545.90	521.99	521.68	551.90	528.10	528.23
540.00	515.33	515.26	546.00	522.13	521.79	552.00	528.22	528.34
540.10	515.49	515.37	546.10	522.23	521.89	552.10	528.31	528.45
540.20	515.65	515.48	546.20	522.35	522.00	552.20	528.43	528.56
540.30	515.86	515.59	546.30	522.40	522.11	552.30	528.55	528.67
540.40	516.03	515.70	546.40	522.44	522.22	552.40	528.62	528.78
540.50	516.18	515.80	546.50	522.50	522.33	552.50	528.75	528.89
540.60	516.28	515.91	546.60	522.56	522.44	552.60	528.89	529.00
540.70	516.37	516.02	546.70	522.60	522.55	552.70	528.97	529.11
540.80	516.52	516.13	546.80	522.65	522.66	552.80	529.07	529.21
540.90	516.62	516.24	546.90	522.72	522.77	552.90	529.22	529.32
541.00	516.73	516.35	547.00	522.80	522.87	553.00	529.36	529.43
541.10	516.86	516.46	547.10	522.91	522.98	553.10	529.42	529.54
541.20	516.97	516.56	547.20	523.03	523.09	553.20	529.51	529.65
541.30	517.11	516.67	547.30	523.13	523.20	553.30	529.67	529.76
541.40	517.20	516.78	547.40	523.21	523.31	553.40	529.82	529.87
541.50	517.28	516.89	547.50	523.32	523.42	553.50	529.97	529.98
541.60	517.36	517.00	547.60	523.48	523.53	553.60	530.12	530.09
541.70	517.42	517.11	547.70	523.56	523.64	553.70	530.21	530.20
541.80	517.56	517.22	547.80	523.65	523.75	553.80	530.29	530.31
541.90	517.78	517.32	547.90	523.78	523.86	553.90	530.39	530.42
542.00	517.94	517.43	548.00	523.87	523.97	554.00	530.49	530.53
542.10	518.03	517.54	548.10	523.96	524.07	554.10	530.61	530.64
542.20	518.16	517.65	548.20	524.06	524.18	554.20	530.80	530.75
542.30	518.25	517.76	548.30	524.12	524.29	554.30	530.92	530.86
542.40	518.38	517.87	548.40	524.23	524.40	554.40	531.03	530.97
542.50	518.45	517.98	548.50	524.33	524.51	554.50	531.17	531.08
542.60	518.58	518.09	548.60	524.49	524.62	554.60	531.27	531.19
542.70	518.74	518.19	548.70	524.63	524.73	554.70	531.37	531.30
542.80	518.83	518.30	548.80	524.76	524.84	554.80	531.55	531.41
542.90	518.93	518.41	548.90	524.87	524.95	554.90	531.71	531.52
543.00	519.00	518.52	549.00	524.94	525.06	555.00	531.82	531.63
543.10	519.07	518.63	549.10	525.01	525.17	555.10	531.93	531.74
543.20	519.15	518.74	549.20	525.11	525.28	555.20	532.09	531.85
543.30	519.33	518.85	549.30	525.21	525.38	555.30	532.20	531.96
543.40	519.52	518.96	549.40	525.31	525.49	555.40	532.31	532.07
543.50	519.59	519.06	549.50	525.43	525.60	555.50	532.44	532.18
543.60	519.71	519.17	549.60	525.59	525.71	555.60	532.56	532.29
543.70	519.81	519.28	549.70	525.76	525.82	555.70	532.63	532.40
543.80	519.89	519.39	549.80	525.85	525.93	555.80	532.74	532.51
543.90	520.04	519.50	549.90	525.95	526.04	555.90	532.84	532.62
544.00	520.14	519.61	550.00	526.05	526.15	556.00	532.90	532.73
544.10	520.26	519.72	550.10	526.16	526.26	556.10	533.02	532.84
544.20	520.33	519.83	550.20	526.26	526.37	556.20	533.15	532.95
544.30	520.44	519.93	550.30	526.30	526.48	556.30	533.25	533.06
544.40	520.48	520.04	550.40	526.34	526.59	556.40	533.37	533.17
544.50	520.52	520.15	550.50	526.39	526.70	556.50	533.49	533.28
544.60	520.60	520.26	550.60	526.48	526.81	556.60	533.59	533.39
544.70	520.69	520.37	550.70	526.62	526.92	556.70	533.65	533.50
544.80	520.80	520.48	550.80	526.74	527.02	556.80	533.70	533.61
544.90	520.91	520.59	550.90	526.82	527.13	556.90	533.75	533.72
545.00	520.99	520.70	551.00	526.89	527.24	557.00	533.87	533.83
545.10	521.10	520.80	551.10	526.99	527.35	557.10	533.96	533.94
545.20	521.26	520.91	551.20	527.11	527.46	557.20	534.09	534.05
545.30	521.34	521.02	551.30	527.19	527.57	557.30	534.25	534.16
545.40	521.41	521.13	551.40	527.28	527.68	557.40	534.45	534.27
545.50	521.56	521.24	551.50	527.37	527.79	557.50	534.56	534.38
545.60	521.70	521.35	551.60	527.44	527.90	557.60	534.63	534.49

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
557.70	534.72	534.60	563.70	541.02	541.23	569.70	547.54	547.91
557.80	534.89	534.71	563.80	541.11	541.34	569.80	547.64	548.02
557.90	535.01	534.82	563.90	541.18	541.45	569.90	547.73	548.13
558.00	535.09	534.93	564.00	541.23	541.56	570.00	547.82	548.25
558.10	535.21	535.04	564.10	541.33	541.67	570.10	547.92	548.36
558.20	535.37	535.15	564.20	541.46	541.78	570.20	548.02	548.47
558.30	535.49	535.26	564.30	541.58	541.89	570.30	548.13	548.58
558.40	535.65	535.37	564.40	541.68	542.01	570.40	548.30	548.69
558.50	535.86	535.48	564.50	541.79	542.12	570.50	548.49	548.81
558.60	535.91	535.59	564.60	541.88	542.23	570.60	548.61	548.92
558.70	535.98	535.70	564.70	541.99	542.34	570.70	548.71	549.03
558.80	536.09	535.81	564.80	542.15	542.45	570.80	548.84	549.14
558.90	536.19	535.92	564.90	542.28	542.56	570.90	549.06	549.25
559.00	536.26	536.03	565.00	542.35	542.67	571.00	549.26	549.37
559.10	536.33	536.14	565.10	542.48	542.78	571.10	549.40	549.48
559.20	536.44	536.25	565.20	542.64	542.89	571.20	549.49	549.59
559.30	536.52	536.36	565.30	542.74	543.01	571.30	549.57	549.70
559.40	536.60	536.47	565.40	542.81	543.12	571.40	549.68	549.81
559.50	536.67	536.58	565.50	542.87	543.23	571.50	549.87	549.93
559.60	536.75	536.69	565.60	542.97	543.34	571.60	550.01	550.04
559.70	536.83	536.80	565.70	543.09	543.45	571.70	550.09	550.15
559.80	536.92	536.91	565.80	543.17	543.56	571.80	550.15	550.26
559.90	537.07	537.02	565.90	543.27	543.67	571.90	550.31	550.37
560.00	537.21	537.13	566.00	543.35	543.78	572.00	550.47	550.49
560.10	537.40	537.25	566.10	543.42	543.90	572.10	550.58	550.60
560.20	537.53	537.36	566.20	543.46	544.01	572.20	550.77	550.71
560.30	537.63	537.47	566.30	543.53	544.12	572.30	550.94	550.82
560.40	537.73	537.58	566.40	543.64	544.23	572.40	551.21	550.94
560.50	537.81	537.69	566.50	543.81	544.34	572.50	551.32	551.05
560.60	537.88	537.80	566.60	543.91	544.45	572.60	551.39	551.16
560.70	537.95	537.91	566.70	544.06	544.56	572.70	551.43	551.27
560.80	538.07	538.02	566.80	544.17	544.67	572.80	551.50	551.38
560.90	538.16	538.13	566.90	544.27	544.79	572.90	551.60	551.50
561.00	538.27	538.24	567.00	544.34	544.90	573.00	551.66	551.61
561.10	538.45	538.35	567.10	544.46	545.01	573.10	551.71	551.72
561.20	538.63	538.46	567.20	544.59	545.12	573.20	551.81	551.83
561.30	538.84	538.57	567.30	544.73	545.23	573.30	551.91	551.95
561.40	538.98	538.68	567.40	544.83	545.34	573.40	552.06	552.06
561.50	539.08	538.79	567.50	544.88	545.45	573.50	552.27	552.17
561.60	539.14	538.90	567.60	544.96	545.57	573.60	552.37	552.28
561.70	539.22	539.01	567.70	545.04	545.68	573.70	552.43	552.39
561.80	539.29	539.12	567.80	545.09	545.79	573.80	552.48	552.51
561.90	539.37	539.23	567.90	545.15	545.90	573.90	552.56	552.62
562.00	539.46	539.35	568.00	545.30	546.01	574.00	552.67	552.73
562.10	539.53	539.46	568.10	545.40	546.12	574.10	552.81	552.84
562.20	539.66	539.57	568.20	545.46	546.24	574.20	552.92	552.96
562.30	539.75	539.68	568.30	545.58	546.35	574.30	553.07	553.07
562.40	539.83	539.79	568.40	545.70	546.46	574.40	553.22	553.18
562.50	539.92	539.90	568.50	545.86	546.57	574.50	553.31	553.29
562.60	540.06	540.01	568.60	546.07	546.68	574.60	553.39	553.41
562.70	540.15	540.12	568.70	546.23	546.79	574.70	553.50	553.52
562.80	540.22	540.23	568.80	546.40	546.91	574.80	553.60	553.63
562.90	540.33	540.34	568.90	546.67	547.02	574.90	553.77	553.74
563.00	540.41	540.45	569.00	546.81	547.13	575.00	553.94	553.86
563.10	540.50	540.56	569.10	546.91	547.24	575.10	554.04	553.97
563.20	540.65	540.67	569.20	547.05	547.35	575.20	554.11	554.08
563.30	540.72	540.79	569.30	547.18	547.46	575.30	554.24	554.19
563.40	540.79	540.90	569.40	547.28	547.58	575.40	554.35	554.31
563.50	540.85	541.01	569.50	547.41	547.69	575.50	554.49	554.42
563.60	540.95	541.12	569.60	547.48	547.80	575.60	554.61	554.53

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
575.70	554.67	554.64	581.70	561.57	561.41	587.70	568.35	568.19
575.80	554.75	554.76	581.80	561.63	561.52	587.80	568.43	568.30
575.90	554.85	554.87	581.90	561.75	561.64	587.90	568.52	568.41
576.00	555.03	554.98	582.00	561.82	561.75	588.00	568.59	568.52
576.10	555.13	555.09	582.10	561.88	561.86	588.10	568.69	568.64
576.20	555.22	555.21	582.20	561.97	561.97	588.20	568.78	568.75
576.30	555.29	555.32	582.30	562.05	562.09	588.30	568.86	568.86
576.40	555.34	555.43	582.40	562.17	562.20	588.40	568.95	568.98
576.50	555.42	555.54	582.50	562.31	562.31	588.50	569.07	569.09
576.60	555.49	555.66	582.60	562.47	562.43	588.60	569.16	569.20
576.70	555.55	555.77	582.70	562.63	562.54	588.70	569.31	569.31
576.80	555.59	555.88	582.80	562.76	562.65	588.80	569.45	569.43
576.90	555.67	555.99	582.90	562.84	562.76	588.90	569.57	569.54
577.00	555.81	556.11	583.00	562.98	562.88	589.00	569.66	569.65
577.10	555.92	556.22	583.10	563.10	562.99	589.10	569.74	569.77
577.20	556.01	556.33	583.20	563.22	563.10	589.20	569.84	569.88
577.30	556.12	556.45	583.30	563.32	563.22	589.30	569.93	569.99
577.40	556.22	556.56	583.40	563.38	563.33	589.40	570.13	570.10
577.50	556.41	556.67	583.50	563.46	563.44	589.50	570.37	570.22
577.60	556.52	556.78	583.60	563.54	563.55	589.60	570.46	570.33
577.70	556.63	556.90	583.70	563.68	563.67	589.70	570.66	570.44
577.80	556.77	557.01	583.80	563.79	563.78	589.80	570.82	570.56
577.90	556.90	557.12	583.90	563.91	563.89	589.90	570.91	570.67
578.00	557.09	557.23	584.00	564.03	564.01	590.00	570.97	570.78
578.10	557.24	557.35	584.10	564.19	564.12	590.10	571.01	570.89
578.20	557.35	557.46	584.20	564.32	564.23	590.20	571.07	571.01
578.30	557.52	557.57	584.30	564.40	564.35	590.30	571.14	571.12
578.40	557.64	557.69	584.40	564.49	564.46	590.40	571.22	571.23
578.50	557.73	557.80	584.50	564.56	564.57	590.50	571.31	571.35
578.60	557.84	557.91	584.60	564.63	564.68	590.60	571.48	571.46
578.70	557.95	558.02	584.70	564.76	564.80	590.70	571.60	571.57
578.80	558.11	558.14	584.80	564.84	564.91	590.80	571.71	571.68
578.90	558.28	558.25	584.90	564.96	565.02	590.90	571.84	571.80
579.00	558.48	558.36	585.00	565.05	565.14	591.00	571.96	571.91
579.10	558.54	558.47	585.10	565.11	565.25	591.10	572.13	572.02
579.20	558.59	558.59	585.20	565.21	565.36	591.20	572.25	572.14
579.30	558.72	558.70	585.30	565.31	565.48	591.30	572.32	572.25
579.40	558.97	558.81	585.40	565.37	565.59	591.40	572.41	572.36
579.50	559.09	558.93	585.50	565.46	565.70	591.50	572.57	572.47
579.60	559.21	559.04	585.60	565.58	565.81	591.60	572.76	572.59
579.70	559.31	559.15	585.70	565.66	565.93	591.70	572.88	572.70
579.80	559.40	559.26	585.80	565.74	566.04	591.80	572.97	572.81
579.90	559.51	559.38	585.90	565.82	566.15	591.90	573.04	572.92
580.00	559.65	559.49	586.00	565.91	566.27	592.00	573.16	573.04
580.10	559.81	559.60	586.10	566.01	566.38	592.10	573.33	573.15
580.20	559.91	559.72	586.20	566.13	566.49	592.20	573.45	573.26
580.30	559.99	559.83	586.30	566.37	566.60	592.30	573.52	573.37
580.40	560.13	559.94	586.40	566.58	566.72	592.40	573.69	573.49
580.50	560.26	560.05	586.50	566.73	566.83	592.50	573.84	573.60
580.60	560.40	560.17	586.60	566.87	566.94	592.60	573.97	573.71
580.70	560.51	560.28	586.70	566.97	567.06	592.70	574.11	573.83
580.80	560.63	560.39	586.80	567.08	567.17	592.80	574.24	573.94
580.90	560.74	560.51	586.90	567.20	567.28	592.90	574.46	574.05
581.00	560.83	560.62	587.00	567.34	567.40	593.00	574.53	574.16
581.10	560.95	560.73	587.10	567.45	567.51	593.10	574.59	574.28
581.20	561.02	560.84	587.20	567.65	567.62	593.20	574.70	574.39
581.30	561.12	560.96	587.30	567.78	567.73	593.30	574.80	574.50
581.40	561.22	561.07	587.40	567.94	567.85	593.40	574.89	574.61
581.50	561.31	561.18	587.50	568.16	567.96	593.50	575.04	574.73
581.60	561.42	561.30	587.60	568.30	568.07	593.60	575.16	574.84

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
593.70	575.21	574.95	599.70	581.92	581.69	605.70	588.31	588.39
593.80	575.33	575.06	599.80	582.04	581.80	605.80	588.38	588.50
593.90	575.43	575.18	599.90	582.13	581.91	605.90	588.54	588.61
594.00	575.52	575.29	600.00	582.22	582.02	606.00	588.64	588.72
594.10	575.66	575.40	600.10	582.39	582.13	606.10	588.76	588.83
594.20	575.76	575.51	600.20	582.48	582.25	606.20	588.86	588.94
594.30	575.81	575.63	600.30	582.52	582.36	606.30	588.98	589.05
594.40	575.87	575.74	600.40	582.58	582.47	606.40	589.07	589.17
594.50	575.95	575.85	600.50	582.72	582.58	606.50	589.14	589.28
594.60	576.21	575.96	600.60	582.85	582.69	606.60	589.30	589.39
594.70	576.35	576.08	600.70	583.03	582.81	606.70	589.42	589.50
594.80	576.51	576.19	600.80	583.09	582.92	606.80	589.52	589.61
594.90	576.59	576.30	600.90	583.10	583.03	606.90	589.63	589.72
595.00	576.69	576.41	601.00	583.13	583.14	607.00	589.76	589.83
595.10	576.92	576.53	601.10	583.20	583.25	607.10	589.87	589.94
595.20	577.06	576.64	601.20	583.28	583.37	607.20	589.95	590.06
595.30	577.20	576.75	601.30	583.42	583.48	607.30	590.07	590.17
595.40	577.37	576.86	601.40	583.50	583.59	607.40	590.15	590.28
595.50	577.49	576.98	601.50	583.53	583.70	607.50	590.25	590.39
595.60	577.60	577.09	601.60	583.66	583.81	607.60	590.35	590.50
595.70	577.70	577.20	601.70	583.77	583.92	607.70	590.42	590.61
595.80	577.78	577.31	601.80	583.92	584.04	607.80	590.47	590.72
595.90	577.91	577.43	601.90	584.04	584.15	607.90	590.61	590.83
596.00	578.06	577.54	602.00	584.09	584.26	608.00	590.69	590.94
596.10	578.10	577.65	602.10	584.14	584.37	608.10	590.77	591.06
596.20	578.12	577.76	602.20	584.19	584.48	608.20	590.94	591.17
596.30	578.15	577.87	602.30	584.25	584.59	608.30	591.02	591.28
596.40	578.18	577.99	602.40	584.33	584.71	608.40	591.13	591.39
596.50	578.23	578.10	602.50	584.51	584.82	608.50	591.28	591.50
596.60	578.31	578.21	602.60	584.67	584.93	608.60	591.39	591.61
596.70	578.39	578.32	602.70	584.79	585.04	608.70	591.43	591.72
596.80	578.47	578.44	602.80	584.92	585.15	608.80	591.51	591.83
596.90	578.55	578.55	602.90	585.06	585.26	608.90	591.69	591.94
597.00	578.65	578.66	603.00	585.14	585.38	609.00	591.91	592.05
597.10	578.79	578.77	603.10	585.27	585.49	609.10	592.05	592.17
597.20	578.88	578.88	603.20	585.41	585.60	609.20	592.18	592.28
597.30	578.95	579.00	603.30	585.59	585.71	609.30	592.31	592.39
597.40	579.04	579.11	603.40	585.74	585.82	609.40	592.48	592.50
597.50	579.16	579.22	603.50	585.94	585.93	609.50	592.67	592.61
597.60	579.30	579.33	603.60	585.99	586.05	609.60	592.81	592.72
597.70	579.44	579.45	603.70	586.05	586.16	609.70	592.95	592.83
597.80	579.63	579.56	603.80	586.13	586.27	609.80	593.12	592.94
597.90	579.76	579.67	603.90	586.22	586.38	609.90	593.32	593.05
598.00	579.85	579.78	604.00	586.38	586.49	610.00	593.41	593.16
598.10	579.92	579.89	604.10	586.59	586.60	610.10	593.55	593.27
598.20	579.97	580.01	604.20	586.73	586.72	610.20	593.63	593.39
598.30	580.06	580.12	604.30	586.88	586.83	610.30	593.74	593.50
598.40	580.14	580.23	604.40	586.96	586.94	610.40	593.84	593.61
598.50	580.20	580.34	604.50	587.10	587.05	610.50	594.00	593.72
598.60	580.39	580.45	604.60	587.33	587.16	610.60	594.09	593.83
598.70	580.53	580.57	604.70	587.48	587.27	610.70	594.24	593.94
598.80	580.66	580.68	604.80	587.54	587.38	610.80	594.37	594.05
598.90	580.75	580.79	604.90	587.69	587.50	610.90	594.41	594.16
599.00	580.86	580.90	605.00	587.78	587.61	611.00	594.48	594.27
599.10	580.97	581.02	605.10	587.90	587.72	611.10	594.55	594.38
599.20	581.15	581.13	605.20	588.05	587.83	611.20	594.62	594.49
599.30	581.28	581.24	605.30	588.10	587.94	611.30	594.71	594.60
599.40	581.50	581.35	605.40	588.12	588.05	611.40	594.77	594.71
599.50	581.64	581.46	605.50	588.17	588.16	611.50	594.86	594.83
599.60	581.79	581.58	605.60	588.24	588.27	611.60	595.04	594.94

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
611.70	595.12	595.05	617.70	601.25	601.66	623.80	608.17	608.23
611.80	595.26	595.16	617.80	601.31	601.77	623.90	608.33	608.34
611.90	595.31	595.27	617.90	601.36	601.88	624.00	608.42	608.45
612.00	595.35	595.38	618.00	601.48	601.99	624.10	608.47	608.56
612.10	595.45	595.49	618.10	601.57	602.10	624.20	608.55	608.66
612.20	595.58	595.60	618.20	601.62	602.21	624.30	608.77	608.77
612.30	595.70	595.71	618.30	601.76	602.32	624.40	608.89	608.88
612.40	595.77	595.82	618.40	601.94	602.43	624.50	609.03	608.99
612.50	595.85	595.93	618.50	602.08	602.54	624.60	609.10	609.10
612.60	595.92	596.04	618.60	602.19	602.65	624.70	609.19	609.21
612.70	595.99	596.15	618.70	602.35	602.76	624.80	609.37	609.32
612.80	596.04	596.26	618.80	602.51	602.87	624.90	609.56	609.43
612.90	596.08	596.37	618.90	602.65	602.98	625.00	609.67	609.53
613.00	596.18	596.48	619.00	602.83	603.09	625.10	609.79	609.64
613.10	596.36	596.59	619.10	602.90	603.20	625.20	609.94	609.75
613.20	596.43	596.70	619.20	602.97	603.31	625.30	610.00	609.86
613.30	596.51	596.82	619.30	603.08	603.42	625.40	610.04	609.97
613.40	596.60	596.93	619.40	603.21	603.53	625.50	610.09	610.08
613.50	596.70	597.04	619.50	603.35	603.64	625.60	610.17	610.19
613.60	596.85	597.15	619.60	603.50	603.75	625.70	610.26	610.29
613.70	596.95	597.26	619.70	603.62	603.86	625.80	610.32	610.40
613.80	597.12	597.37	619.80	603.76	603.97	625.90	610.36	610.51
613.90	597.24	597.48	619.90	603.84	604.08	626.00	610.44	610.62
614.00	597.36	597.59	620.00	603.91	604.19	626.10	610.52	610.73
614.10	597.45	597.70	620.10	603.98	604.30	626.20	610.63	610.84
614.20	597.58	597.81	620.20	604.08	604.41	626.30	610.87	610.95
614.30	597.68	597.92	620.30	604.16	604.52	626.40	610.96	611.05
614.40	597.78	598.03	620.40	604.20	604.63	626.50	611.05	611.16
614.50	597.88	598.14	620.50	604.24	604.73	626.60	611.30	611.27
614.60	597.99	598.25	620.60	604.31	604.84	626.70	611.40	611.38
614.70	598.24	598.36	620.70	604.39	604.95	626.80	611.56	611.49
614.80	598.44	598.47	620.80	604.45	605.06	626.90	611.71	611.60
614.90	598.49	598.58	620.90	604.51	605.17	627.00	611.84	611.70
615.00	598.61	598.69	621.00	604.58	605.28	627.10	611.92	611.81
615.10	598.74	598.80	621.10	604.67	605.39	627.20	612.14	611.92
615.20	598.94	598.91	621.20	604.79	605.50	627.30	612.32	612.03
615.30	599.05	599.02	621.30	604.92	605.61	627.40	612.49	612.14
615.40	599.12	599.13	621.40	605.07	605.72	627.50	612.59	612.24
615.50	599.18	599.24	621.50	605.19	605.83	627.60	612.66	612.35
615.60	599.22	599.35	621.60	605.27	605.94	627.70	612.72	612.46
615.70	599.30	599.46	621.70	605.38	606.05	627.80	612.83	612.57
615.80	599.41	599.57	621.80	605.58	606.16	627.90	612.91	612.68
615.90	599.50	599.68	621.90	605.73	606.27	628.00	612.97	612.78
616.00	599.58	599.79	622.00	605.93	606.38	628.10	613.05	612.89
616.10	599.69	599.90	622.20	606.15	606.48	628.20	613.17	613.00
616.20	599.92	600.01	622.30	606.23	606.59	628.30	613.27	613.11
616.30	600.00	600.12	622.40	606.33	606.70	628.40	613.35	613.22
616.40	600.06	600.23	622.50	606.52	606.81	628.50	613.52	613.32
616.50	600.15	600.34	622.60	606.70	606.92	628.60	613.59	613.43
616.60	600.35	600.45	622.70	606.79	607.03	628.70	613.68	613.54
616.70	600.40	600.56	622.80	606.87	607.14	628.80	613.82	613.65
616.80	600.46	600.67	622.90	607.05	607.25	628.90	614.06	613.75
616.90	600.54	600.78	623.00	607.19	607.36	629.00	614.13	613.86
617.00	600.60	600.89	623.10	607.30	607.47	629.10	614.26	613.97
617.10	600.62	601.00	623.20	607.38	607.58	629.20	614.41	614.08
617.20	600.66	601.11	623.30	607.49	607.68	629.30	614.46	614.18
617.30	600.72	601.22	623.40	607.66	607.79	629.40	614.51	614.29
617.40	600.84	601.33	623.50	607.79	607.90	629.50	614.55	614.40
617.50	600.93	601.44	623.60	607.87	608.01	629.60	614.65	614.51
617.60	601.07	601.55	623.70	607.96	608.12	629.70	614.77	614.61

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
629.80	614.87	614.72	635.80	621.16	621.11	641.80	627.99	627.48
629.90	614.94	614.83	635.90	621.18	621.22	641.90	628.12	627.59
630.00	615.01	614.94	636.00	621.22	621.32	642.00	628.21	627.69
630.10	615.12	615.04	636.10	621.26	621.43	642.10	628.27	627.79
630.20	615.19	615.15	636.20	621.36	621.54	642.20	628.32	627.90
630.30	615.23	615.26	636.30	621.52	621.64	642.30	628.41	628.00
630.40	615.29	615.37	636.40	621.62	621.75	642.40	628.54	628.10
630.50	615.35	615.47	636.50	621.71	621.85	642.50	628.64	628.21
630.60	615.47	615.58	636.60	621.80	621.96	642.60	628.71	628.31
630.70	615.68	615.69	636.70	621.91	622.13	642.70	628.79	628.41
630.80	615.73	615.80	636.80	622.13	622.27	642.80	628.97	628.52
630.90	615.81	615.90	636.90	622.28	622.37	642.90	629.17	628.62
631.00	615.92	616.01	637.00	622.41	622.48	643.00	629.22	628.72
631.10	616.13	616.12	637.10	622.47	622.58	643.10	629.28	628.83
631.20	616.28	616.22	637.20	622.53	622.69	643.30	629.47	628.93
631.30	616.35	616.33	637.30	622.62	622.79	643.40	629.58	629.03
631.40	616.44	616.44	637.40	622.69	622.90	643.50	629.63	629.13
631.50	616.66	616.54	637.50	622.79	623.00	643.60	629.74	629.24
631.60	616.81	616.65	637.60	622.95	623.11	643.70	629.91	629.34
631.70	616.93	616.76	637.70	623.15	623.21	643.80	630.00	629.44
631.80	617.10	616.87	637.80	623.22	623.32	643.90	630.05	629.54
631.90	617.20	616.97	637.90	623.28	623.42	644.00	630.14	629.65
632.00	617.28	617.08	638.00	623.34	623.53	644.10	630.20	629.75
632.10	617.55	617.19	638.10	623.44	623.63	644.20	630.30	629.85
632.20	617.64	617.29	638.20	623.50	623.74	644.30	630.40	629.95
632.30	617.72	617.40	638.30	623.54	623.84	644.40	630.51	630.06
632.40	617.90	617.51	638.40	623.68	623.95	644.50	630.60	630.16
632.50	618.01	617.61	638.50	623.92	624.05	644.60	630.65	630.26
632.60	618.13	617.72	638.60	624.04	624.16	644.70	630.68	630.36
632.70	618.33	617.83	638.70	624.09	624.26	644.80	630.71	630.47
632.80	618.45	617.93	638.80	624.19	624.37	644.90	630.76	630.57
632.90	618.52	618.04	638.90	624.36	624.47	645.00	630.83	630.67
633.00	618.58	618.15	639.00	624.39	624.57	645.10	630.93	630.77
633.10	618.70	618.25	639.10	624.43	624.68	645.20	631.02	630.87
633.20	618.81	618.36	639.20	624.48	624.78	645.30	631.09	630.98
633.30	618.91	618.46	639.30	624.53	624.89	645.40	631.15	631.08
633.40	618.97	618.57	639.40	624.61	624.99	645.50	631.37	631.18
633.50	619.04	618.68	639.50	624.75	625.10	645.60	631.46	631.28
633.60	619.13	618.78	639.60	624.91	625.20	645.70	631.67	631.38
633.70	619.22	618.89	639.70	625.01	625.30	645.80	631.79	631.49
633.80	619.28	619.00	639.80	625.09	625.41	645.90	631.88	631.59
633.90	619.34	619.10	639.90	625.14	625.51	646.00	632.00	631.69
634.00	619.40	619.21	640.00	625.33	625.62	646.10	632.10	631.79
634.10	619.49	619.31	640.10	625.43	625.72	646.20	632.18	631.89
634.20	619.58	619.42	640.20	625.60	625.82	646.30	632.36	631.99
634.30	619.67	619.53	640.30	625.78	625.93	646.40	632.44	632.10
634.40	619.74	619.63	640.40	625.87	626.03	646.50	632.55	632.20
634.50	619.82	619.74	640.50	626.07	626.14	646.60	632.65	632.30
634.60	620.10	619.84	640.60	626.18	626.24	646.70	632.77	632.40
634.70	620.23	619.95	640.70	626.26	626.34	646.80	632.88	632.50
634.80	620.29	620.06	640.80	626.43	626.45	646.90	633.04	632.60
634.90	620.36	620.16	640.90	626.60	626.55	647.00	633.16	632.71
635.00	620.39	620.27	641.00	626.73	626.66	647.10	633.26	632.81
635.10	620.42	620.37	641.10	626.95	626.76	647.20	633.37	632.91
635.20	620.49	620.48	641.20	627.15	626.86	647.30	633.47	633.01
635.30	620.59	620.59	641.30	627.36	626.97	647.40	633.64	633.11
635.40	620.75	620.69	641.40	627.46	627.07	647.50	633.82	633.21
635.50	620.88	620.80	641.50	627.55	627.17	647.60	633.87	633.31
635.60	620.96	620.90	641.60	627.68	627.28	647.70	633.91	633.41
635.70	621.05	621.01	641.70	627.86	627.38	647.80	633.97	633.51

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
647.90	634.04	633.62	654.20	640.19	639.60	660.50	645.95	645.53
648.00	634.10	633.72	654.30	640.46	639.70	660.60	646.00	645.63
648.10	634.17	633.82	654.40	640.57	639.79	660.70	646.06	645.73
648.20	634.32	633.92	654.50	640.64	639.89	660.80	646.15	645.82
648.30	634.47	634.02	654.60	640.67	639.99	660.90	646.39	645.92
648.40	634.54	634.12	654.70	640.72	640.09	661.00	646.46	646.01
648.50	634.60	634.22	654.80	640.77	640.19	661.10	646.54	646.11
648.60	634.73	634.32	654.90	640.78	640.28	661.20	646.67	646.21
648.80	634.86	634.42	655.00	640.80	640.38	661.30	646.76	646.30
648.90	634.89	634.52	655.10	640.85	640.48	661.40	646.80	646.40
649.00	634.92	634.62	655.20	640.96	640.58	661.50	646.82	646.49
649.20	634.97	634.72	655.30	641.00	640.68	661.60	646.84	646.59
649.30	635.02	634.82	655.40	641.04	640.78	661.70	646.88	646.69
649.40	635.07	634.92	655.50	641.10	640.87	661.80	646.96	646.78
649.50	635.22	635.02	655.60	641.13	640.97	661.90	647.07	646.88
649.60	635.33	635.12	655.80	641.18	641.07	662.00	647.10	646.97
649.70	635.42	635.23	655.90	641.23	641.17	662.10	647.12	647.07
649.80	635.55	635.33	656.00	641.33	641.26	662.20	647.15	647.16
649.90	635.64	635.43	656.10	641.42	641.36	662.30	647.22	647.26
650.00	635.77	635.53	656.20	641.49	641.46	662.40	647.34	647.36
650.10	635.88	635.63	656.30	641.68	641.56	662.50	647.65	647.45
650.20	635.92	635.73	656.40	641.79	641.66	662.60	647.93	647.55
650.30	635.99	635.83	656.50	641.91	641.75	662.70	648.11	647.64
650.40	636.14	635.93	656.60	642.09	641.85	662.80	648.20	647.74
650.50	636.20	636.03	656.70	642.32	641.95	662.90	648.36	647.83
650.60	636.29	636.13	656.80	642.44	642.05	663.00	648.57	647.93
650.70	636.40	636.23	656.90	642.57	642.14	663.10	648.80	648.02
650.80	636.55	636.33	657.00	642.65	642.24	663.20	648.94	648.12
650.90	636.61	636.43	657.10	642.72	642.34	663.30	649.07	648.21
651.00	636.72	636.53	657.20	642.80	642.44	663.50	649.24	648.31
651.10	636.94	636.62	657.30	642.92	642.53	663.60	649.31	648.40
651.20	637.13	636.72	657.40	643.11	642.63	663.70	649.43	648.50
651.40	637.28	636.82	657.50	643.32	642.73	663.90	649.56	648.60
651.50	637.46	636.92	657.60	643.47	642.82	664.00	649.67	648.78
651.60	637.53	637.02	657.70	643.63	642.92	664.10	649.70	648.89
651.70	637.60	637.12	657.90	643.80	643.02	664.20	649.79	648.98
651.80	637.65	637.22	658.00	643.96	643.13	664.30	649.95	649.15
651.90	637.75	637.32	658.10	644.03	643.31	664.40	650.07	649.27
652.00	637.85	637.42	658.20	644.27	643.41	664.50	650.13	649.37
652.10	637.93	637.52	658.30	644.35	643.51	664.60	650.20	649.46
652.20	638.10	637.62	658.40	644.50	643.60	664.70	650.26	649.56
652.30	638.32	637.72	658.50	644.57	643.70	664.80	650.38	649.65
652.40	638.42	637.82	658.60	644.60	643.80	664.90	650.48	649.75
652.50	638.49	637.92	658.70	644.63	643.89	665.00	650.53	649.84
652.60	638.60	638.02	658.80	644.65	643.99	665.10	650.56	649.94
652.70	638.69	638.12	658.90	644.70	644.09	665.20	650.59	650.03
652.80	638.74	638.21	659.00	644.80	644.18	665.30	650.63	650.13
652.90	638.79	638.31	659.10	644.87	644.28	665.40	650.68	650.22
653.00	638.96	638.41	659.20	644.89	644.38	665.50	650.75	650.31
653.10	639.07	638.51	659.30	644.93	644.47	665.60	650.85	650.41
653.20	639.17	638.61	659.40	645.02	644.57	665.70	650.88	650.50
653.30	639.28	638.71	659.50	645.09	644.67	665.80	650.89	650.60
653.40	639.35	638.81	659.60	645.14	644.76	666.00	650.94	650.69
653.50	639.51	638.91	659.70	645.36	644.86	666.10	651.08	650.79
653.60	639.69	639.01	659.80	645.47	644.96	666.20	651.39	650.88
653.70	639.75	639.10	659.90	645.57	645.05	666.30	651.54	650.98
653.80	639.86	639.20	660.10	645.66	645.15	666.40	651.61	651.07
653.90	639.97	639.30	660.20	645.80	645.24	666.50	651.73	651.17
654.00	640.00	639.40	660.30	645.88	645.34	666.60	651.82	651.32
654.10	640.04	639.50	660.40	645.92	645.44	666.80	651.88	651.46



PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
666.90	651.93	651.55	674.80	657.20	657.29	682.40	663.15	663.12
667.00	651.95	651.64	674.90	657.29	657.39	682.50	663.22	663.22
667.20	652.03	651.74	675.00	657.36	657.48	682.60	663.25	663.32
667.40	652.25	651.83	675.10	657.38	657.57	682.80	663.29	663.50
667.50	652.28	651.93	675.20	657.39	657.67	682.90	663.37	663.60
667.60	652.33	652.02	675.30	657.42	657.82	683.10	663.56	663.69
667.80	652.39	652.12	675.40	657.45	657.95	683.20	663.63	663.87
667.90	652.58	652.21	675.50	657.52	658.05	683.30	663.71	663.98
668.00	652.75	652.31	675.60	657.59	658.14	683.40	663.80	664.08
668.10	652.83	652.40	675.90	657.70	658.24	683.50	663.86	664.17
668.20	652.90	652.49	676.00	657.97	658.33	683.70	663.91	664.26
668.30	652.95	652.59	676.10	658.07	658.42	683.80	663.97	664.36
668.40	653.03	652.68	676.20	658.15	658.52	683.90	664.21	664.45
668.60	653.27	652.78	676.40	658.19	658.61	684.00	664.32	664.55
668.70	653.36	652.87	676.50	658.22	658.70	684.10	664.38	664.64
668.80	653.41	652.97	676.60	658.29	658.80	684.20	664.46	664.73
669.10	653.47	653.06	676.70	658.36	658.89	684.40	664.59	664.83
669.20	653.52	653.15	676.80	658.44	658.99	684.50	664.75	664.92
669.30	653.60	653.25	676.90	658.51	659.08	684.60	664.81	665.02
669.40	653.75	653.34	677.10	658.65	659.17	684.70	664.87	665.11
669.50	653.78	653.44	677.20	658.92	659.27	684.80	664.95	665.21
669.70	653.83	653.53	677.30	659.12	659.36	684.90	665.02	665.30
669.80	653.86	653.62	677.40	659.29	659.45	685.00	665.16	665.40
669.90	653.90	653.72	677.50	659.47	659.55	685.10	665.27	665.49
670.10	653.95	653.81	677.60	659.57	659.64	685.20	665.32	665.58
670.20	654.04	653.91	678.00	659.77	659.74	685.30	665.49	665.68
670.30	654.11	654.00	678.10	659.88	659.83	685.40	665.60	665.77
670.40	654.22	654.09	678.20	660.15	659.95	685.50	665.78	665.94
670.60	654.30	654.19	678.30	660.22	660.12	685.60	665.87	666.06
670.80	654.33	654.28	678.50	660.26	660.21	685.70	666.01	666.16
670.90	654.39	654.38	678.70	660.32	660.30	685.80	666.10	666.25
671.00	654.50	654.47	678.80	660.41	660.40	685.90	666.22	666.35
671.10	654.66	654.56	679.00	660.55	660.49	686.00	666.35	666.44
671.20	654.69	654.66	679.10	660.61	660.59	686.20	666.45	666.54
671.30	654.72	654.75	679.20	660.65	660.68	686.30	666.55	666.66
671.50	654.77	654.85	679.30	660.76	660.77	686.40	666.59	666.83
671.60	654.82	654.94	679.40	660.96	660.87	686.50	666.78	666.92
671.80	655.02	655.03	679.50	661.02	660.96	686.70	666.99	667.03
671.90	655.09	655.13	679.60	661.17	661.05	686.80	667.10	667.22
672.00	655.14	655.22	679.80	661.21	661.15	686.90	667.50	667.41
672.10	655.30	655.32	679.90	661.27	661.24	687.10	667.56	667.50
672.20	655.41	655.41	680.10	661.34	661.34	687.20	667.59	667.59
672.30	655.56	655.50	680.20	661.46	661.43	687.30	667.63	667.78
672.40	655.86	655.60	680.30	661.56	661.52	687.40	667.67	667.88
672.50	656.17	655.78	680.40	661.68	661.62	687.60	667.78	667.98
672.70	656.32	655.89	680.50	661.72	661.71	687.70	667.88	668.07
672.80	656.46	655.98	680.60	661.76	661.81	687.80	668.01	668.17
673.00	656.49	656.07	680.80	661.82	661.90	687.90	668.13	668.27
673.10	656.52	656.17	681.00	661.87	661.99	688.10	668.30	668.36
673.30	656.54	656.26	681.20	661.97	662.09	688.30	668.34	668.51
673.40	656.56	656.35	681.30	662.02	662.18	688.50	668.37	668.65
673.60	656.59	656.45	681.40	662.15	662.28	688.60	668.40	668.75
673.70	656.62	656.54	681.50	662.24	662.37	688.70	668.49	668.92
673.80	656.67	656.64	681.60	662.35	662.46	688.90	668.58	669.14
674.10	656.72	656.73	681.80	662.67	662.56	689.10	668.63	669.23
674.20	656.77	656.82	681.90	662.72	662.65	689.20	668.76	669.33
674.30	656.83	656.92	682.00	662.74	662.75	689.40	669.00	669.42
674.40	656.92	657.01	682.10	662.77	662.84	689.50	669.20	669.53
674.50	657.02	657.10	682.20	662.83	662.93	689.60	669.25	669.71
674.70	657.12	657.20	682.30	663.00	663.03	689.70	669.36	669.81

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
690.00	669.39	669.91	698.40	676.31	677.30	707.10	683.77	684.88
690.10	669.41	670.10	698.50	676.54	677.40	707.20	683.84	684.98
690.20	669.44	670.19	698.70	676.72	677.50	707.30	683.96	685.08
690.30	669.54	670.29	698.90	676.83	677.60	707.40	684.33	685.19
690.40	669.71	670.39	699.00	676.88	677.98	707.60	684.44	685.29
690.50	669.93	670.56	699.10	677.06	678.09	707.70	684.52	685.39
690.60	670.21	670.75	699.20	677.29	678.19	707.80	684.63	685.49
690.70	670.31	670.87	699.30	677.39	678.29	708.00	684.69	685.59
690.80	670.37	670.97	699.40	677.55	678.48	708.20	684.81	685.69
690.90	670.50	671.06	699.60	678.04	678.68	708.40	684.98	685.80
691.00	670.82	671.16	699.80	678.17	678.79	708.60	685.09	685.90
691.10	670.92	671.26	699.90	678.47	678.97	708.70	685.27	686.00
691.30	670.96	671.40	700.00	678.62	679.08	708.90	685.36	686.20
691.40	670.98	671.55	700.10	678.69	679.18	709.00	685.39	686.30
691.50	671.02	671.69	700.20	678.73	679.28	709.10	685.41	686.41
691.60	671.09	671.84	700.30	678.77	679.38	709.20	685.44	686.52
691.70	671.24	671.94	700.50	678.89	679.48	709.50	685.51	686.71
691.90	671.34	672.03	700.60	679.05	679.58	709.60	685.57	686.81
692.10	671.54	672.13	700.70	679.12	679.75	709.70	685.64	686.93
692.20	671.58	672.22	700.80	679.20	679.87	709.80	685.78	687.12
692.40	671.68	672.32	700.90	679.26	680.05	709.90	685.83	687.22
692.50	671.80	672.42	701.00	679.30	680.17	710.00	685.93	687.32
692.80	671.92	672.53	701.20	679.44	680.27	710.10	686.22	687.45
692.90	672.16	672.71	701.30	679.61	680.37	710.40	686.27	687.63
693.40	672.44	672.81	701.40	679.67	680.47	710.60	686.33	687.73
693.50	672.69	673.00	701.60	679.84	680.57	710.70	686.37	687.83
693.70	672.73	673.10	701.70	680.15	680.74	711.00	686.39	687.97
693.80	672.83	673.29	701.80	680.19	680.94	711.10	686.40	688.18
694.00	673.28	673.39	701.90	680.24	681.14	711.20	686.43	688.39
694.20	673.40	673.58	702.10	680.30	681.27	711.30	686.56	688.55
694.30	673.54	673.68	702.20	680.36	681.37	711.40	686.74	688.65
694.60	673.75	673.78	702.30	680.39	681.47	711.50	686.80	688.80
694.70	673.78	674.03	702.40	680.43	681.57	711.60	686.83	689.01
694.80	673.86	674.17	702.50	680.74	681.73	711.70	686.89	689.16
694.90	674.00	674.27	702.60	680.89	681.87	711.80	687.02	689.32
695.00	674.12	674.37	702.70	680.99	681.97	711.90	687.14	689.47
695.20	674.17	674.47	702.80	681.09	682.07	712.10	687.43	689.57
695.40	674.24	674.62	702.90	681.32	682.17	712.50	687.57	689.67
695.50	674.30	674.76	703.00	681.51	682.27	712.60	687.60	689.93
695.60	674.35	674.86	703.10	681.71	682.37	712.90	687.63	690.08
695.70	674.42	674.95	703.30	681.85	682.47	713.10	687.65	690.18
695.80	674.49	675.05	703.40	681.88	682.57	713.30	687.76	690.29
695.90	674.63	675.15	703.50	681.91	682.73	713.40	688.41	690.39
696.00	674.71	675.24	703.70	681.93	682.87	713.50	688.56	690.50
696.10	674.76	675.34	704.00	681.95	683.03	713.60	688.64	690.60
696.30	674.83	675.44	704.10	682.06	683.17	713.80	689.22	690.70
696.40	674.89	675.54	704.30	682.17	683.27	714.10	689.51	690.81
696.60	674.93	675.70	704.40	682.28	683.37	714.20	689.68	690.91
696.70	675.02	675.93	705.00	682.32	683.47	714.50	690.41	691.02
696.80	675.08	676.03	705.10	682.40	683.64	714.60	690.63	691.14
696.90	675.16	676.13	705.20	682.49	683.77	714.70	690.70	691.32
697.00	675.26	676.25	705.50	682.57	683.87	714.80	690.78	691.43
697.30	675.34	676.42	705.70	682.85	683.97	714.90	690.88	691.53
697.60	675.49	676.52	705.80	683.14	684.07	715.00	690.96	691.64
697.70	675.79	676.62	705.90	683.25	684.17	715.30	691.11	691.78
697.80	675.92	676.71	706.10	683.28	684.35	715.40	691.26	691.99
698.00	675.99	676.81	706.20	683.32	684.48	715.70	691.33	692.15
698.10	676.05	676.92	706.40	683.38	684.58	715.80	691.40	692.31
698.20	676.10	677.11	706.70	683.41	684.68	715.90	691.49	692.46
698.30	676.16	677.21	706.90	683.46	684.78	716.00	691.57	692.69

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
716.30	691.62	692.87	730.10	702.68	701.73	751.20	715.98	715.31
716.40	691.71	693.27	730.20	703.09	701.84	751.60	716.08	715.81
716.80	692.05	693.48	730.50	703.23	701.98	753.10	716.66	716.32
716.90	692.13	693.67	730.60	703.40	702.15	753.70	716.78	716.94
717.10	692.17	693.79	730.90	704.04	702.26	754.00	716.84	717.61
717.40	692.25	693.99	731.10	704.38	702.36	754.60	716.98	718.36
717.50	692.35	694.20	731.20	704.43	702.47	754.90	718.25	719.27
717.90	692.41	694.31	731.40	704.61	702.58	755.20	718.45	719.72
718.10	692.44	694.61	731.60	705.09	702.68	755.60	718.58	720.35
718.30	692.47	694.72	731.90	705.44	702.79	756.40	719.32	721.00
718.50	692.50	694.82	732.20	705.65	702.90	756.90	719.36	721.36
718.80	692.58	694.93	732.50	705.73	703.00	758.20	719.39	722.24
719.20	692.85	695.06	733.00	705.83	703.12	759.40	719.42	723.26
719.40	692.90	695.27	733.20	706.33	703.32	760.10	719.43	724.11
719.50	693.11	695.44	733.50	706.52	703.42	761.10	719.48	724.87
719.60	694.01	695.55	733.80	707.78	703.56	761.30	719.93	725.44
719.90	694.87	695.65	734.30	708.13	703.82	761.40	721.18	726.17
720.00	694.94	695.76	734.40	708.18	704.05	761.50	722.11	726.77
720.30	695.11	695.86	734.60	708.23	704.20	762.20	722.65	727.19
720.40	695.44	695.97	734.70	708.28	704.36	762.30	722.95	727.60
720.70	695.79	696.08	734.90	708.63	704.80	763.60	723.81	728.50
720.90	695.85	696.26	735.00	708.73	705.07	765.60	724.80	729.13
721.10	695.99	696.39	735.10	708.84	705.18	765.80	725.05	730.24
721.20	696.04	696.59	735.20	708.91	705.46	766.60	725.55	730.93
721.30	696.32	696.70	735.80	708.94	705.69	767.20	726.50	731.44
721.40	696.56	696.80	736.20	709.01	705.80	768.00	726.83	732.28
721.50	696.69	696.91	736.60	709.08	705.92	768.60	726.87	733.29
722.00	697.24	697.05	737.50	709.11	706.11	770.60	726.89	734.34
722.40	697.66	697.37	737.80	709.14	706.24	771.70	726.92	734.78
722.80	697.72	697.63	738.10	709.19	706.49	771.90	727.26	735.15
723.20	697.81	697.73	738.20	709.88	706.77	775.20	727.32	736.40
723.30	698.28	697.88	738.50	710.08	706.98	776.30	727.45	737.97
723.50	698.43	698.05	738.80	710.14	707.22	776.60	728.23	738.68
723.90	698.48	698.15	739.40	710.21	707.41	777.20	728.65	740.13
724.20	698.58	698.26	740.00	710.29	707.68	778.70	730.68	740.57
724.70	698.93	698.37	740.20	710.36	707.93	779.00	730.81	741.27
724.80	699.27	698.47	740.30	710.43	708.29	779.40	730.89	741.92
724.90	699.37	698.66	740.50	710.48	708.63	782.20	730.94	744.38
725.00	699.49	698.87	740.60	711.29	708.91	782.70	730.99	746.06
725.20	699.52	698.99	741.10	711.36	709.09	785.50	731.43	748.29
725.50	699.54	699.10	741.20	711.44	709.41	786.80	731.98	749.97
725.90	699.58	699.20	741.30	711.51	709.65	789.90	734.53	750.91
726.00	699.61	699.31	741.40	711.59	709.83	791.40	734.64	753.14
726.20	699.65	699.43	741.60	712.06	710.01	793.30	737.74	754.64
726.30	699.68	699.64	742.00	712.91	710.38	793.70	737.86	755.73
726.50	699.97	699.83	743.70	713.31	710.67	793.90	738.73	758.46
726.80	700.02	699.94	743.80	713.36	711.05	794.10	741.33	761.15
726.90	700.05	700.04	744.50	713.37	711.24	795.80	741.39	761.72
727.00	700.56	700.15	745.20	713.39	711.42	796.10	741.48	764.32
727.20	700.61	700.26	745.80	713.40	711.60	799.00	741.55	766.84
727.30	700.71	700.42	746.10	713.40	711.78	800.40	741.62	769.51
727.50	700.93	700.57	747.20	713.41	712.02	803.40	741.74	773.55
727.60	701.16	700.67	748.10	713.42	712.54	803.80	745.35	776.93
728.20	701.22	700.78	748.30	713.44	712.94	807.10	748.44	779.24
728.30	701.38	700.89	748.50	713.45	713.30	808.00	748.48	784.50
728.50	701.83	700.99	748.60	713.63	713.48	816.20	748.51	790.94
728.60	701.88	701.20	750.00	713.88	713.73	816.40	748.53	793.85
729.00	701.94	701.31	750.30	714.11	714.14	821.80	762.03	796.04
729.10	702.26	701.43	750.80	714.77	714.52	823.00	763.11	802.90
729.50	702.46	701.62	750.90	715.30	714.80	824.00	763.44	807.89

PISA Score	NoSmooth	S=0.20
826.60	763.85	821.41
828.10	764.35	826.54

## Appendix L

## Score Conversion Tables from Equipercentile Method – Science as Major and Minor

## Domains

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
131.20	205.32	135.39	251.80	278.09	273.52	278.90	295.66	297.98
141.50	227.52	158.34	252.40	279.36	274.66	279.50	295.74	298.05
154.60	227.95	175.49	252.60	279.76	274.84	279.80	295.85	298.13
171.50	238.68	192.07	253.10	280.27	275.46	279.90	296.10	298.20
175.10	240.16	198.74	254.60	280.61	277.70	280.40	297.76	298.35
186.30	242.22	203.05	255.20	280.92	278.78	281.10	298.04	298.66
193.10	248.63	204.23	256.00	281.12	279.69	281.30	298.17	298.93
193.70	250.59	205.34	256.20	281.20	280.12	281.40	298.32	299.00
201.30	251.34	209.29	257.20	281.33	281.15	282.00	298.47	299.08
203.00	251.62	212.15	257.30	282.01	281.44	282.10	298.84	299.30
203.10	251.74	216.59	258.30	282.09	282.09	282.30	299.00	299.55
204.00	252.38	217.81	259.00	282.30	282.44	282.50	299.09	299.70
204.80	252.51	218.88	259.40	282.93	282.80	282.60	299.29	299.78
205.30	252.87	220.99	259.90	283.04	283.13	283.00	299.51	299.85
205.70	253.26	224.02	260.60	283.14	284.83	283.10	299.62	299.93
209.60	254.58	226.83	260.90	283.62	285.09	283.20	299.74	300.00
211.20	255.76	227.99	261.10	284.91	285.35	284.80	299.86	300.08
212.50	256.01	229.20	262.40	284.99	285.92	285.00	301.16	300.20
216.10	256.09	231.72	262.70	285.05	286.52	285.10	301.58	300.47
217.00	258.61	232.79	263.40	285.33	286.84	285.20	301.76	301.00
217.70	259.21	239.03	263.70	285.60	287.21	285.40	301.90	301.15
218.00	259.79	240.15	264.40	285.97	287.85	285.80	301.95	301.25
218.70	261.12	241.19	264.60	286.10	288.13	286.00	302.30	301.44
219.70	262.79	242.79	264.80	286.76	288.48	286.40	302.63	301.89
221.00	263.87	245.80	265.30	286.79	288.83	286.70	302.80	301.97
222.90	264.35	247.58	265.50	286.83	289.64	286.80	303.24	302.24
224.30	264.50	248.66	265.70	286.95	290.64	287.00	303.51	302.52
226.40	264.71	249.79	266.40	288.28	290.94	287.20	303.55	302.60
227.10	264.78	251.72	266.50	289.35	291.37	287.60	303.59	302.74
227.60	264.93	252.40	267.20	289.55	291.56	287.90	303.62	303.11
228.50	267.38	253.01	267.40	289.70	291.78	288.00	303.82	303.52
229.10	268.36	254.99	268.30	289.84	292.06	288.20	304.00	303.59
229.50	268.38	256.09	268.40	290.28	292.40	288.30	304.14	303.67
231.70	268.42	257.23	268.70	291.04	292.73	288.70	304.42	303.74
232.00	268.48	258.36	269.20	291.26	293.21	288.80	304.50	303.83
232.90	268.55	259.36	269.30	291.45	293.44	288.90	304.60	303.98
238.20	269.21	260.40	270.30	291.53	293.69	289.60	304.76	304.26
239.40	269.26	261.01	270.90	291.57	294.08	290.10	304.87	304.44
239.70	269.28	262.50	271.10	291.80	294.42	290.70	305.10	304.52
240.60	269.41	263.45	271.90	292.02	294.50	290.80	306.31	304.67
241.00	269.69	264.38	272.00	292.20	294.57	291.00	306.38	304.76
241.60	270.40	264.76	272.70	292.38	294.99	291.30	306.45	304.83
242.60	270.96	265.42	273.30	292.61	295.45	291.50	306.54	304.91
244.10	271.94	265.99	273.60	292.80	295.60	291.60	306.60	304.98
245.90	272.00	266.66	274.60	293.03	295.67	291.80	306.70	305.16
246.90	273.04	267.43	274.70	293.43	295.85	292.00	306.73	305.38
247.80	273.42	268.39	274.80	293.55	296.07	292.30	306.77	305.60
248.60	273.83	269.03	274.90	293.85	296.30	292.50	306.83	305.67
248.70	274.66	269.78	275.00	294.08	296.97	292.80	306.92	305.75
248.90	274.74	270.96	277.60	294.48	297.40	293.20	306.99	305.91
251.20	274.80	271.91	277.70	294.78	297.68	293.40	307.12	306.27
251.70	277.65	272.65	278.30	295.22	297.90	293.50	307.24	306.37

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
293.80	307.29	306.44	307.90	314.63	314.95	320.40	323.52	323.47
294.10	307.35	306.51	308.10	314.77	315.05	320.50	323.56	323.54
294.40	307.40	306.59	308.30	314.86	315.19	320.70	323.59	323.64
294.50	307.45	306.72	308.40	314.93	315.27	321.20	323.71	324.06
294.60	307.59	306.93	308.70	315.15	315.41	321.30	323.85	324.25
295.40	307.79	307.21	309.10	315.23	315.61	321.50	323.98	324.32
295.60	307.84	307.28	309.20	315.30	315.68	321.80	324.12	324.39
295.70	307.87	307.35	309.30	315.61	315.80	322.20	324.21	324.51
296.00	307.95	307.43	309.40	315.78	315.92	322.30	324.22	324.68
296.30	308.06	307.50	310.00	315.85	315.99	322.40	324.26	324.89
297.20	308.21	307.71	310.30	315.93	316.06	322.50	324.33	325.03
297.60	308.33	307.84	310.50	316.06	316.13	322.60	324.35	325.14
297.90	308.36	307.93	310.60	316.14	316.22	322.70	324.50	325.21
298.00	308.37	308.08	310.90	316.61	316.64	323.10	324.56	325.27
298.10	308.39	308.22	311.00	317.25	316.93	323.20	324.66	325.34
298.20	308.46	308.33	311.20	317.43	317.16	323.30	324.96	325.43
298.40	308.57	308.42	311.30	317.51	317.44	323.40	325.15	325.57
298.90	308.75	308.63	311.50	317.53	317.56	323.50	325.18	325.71
299.00	308.97	308.90	311.90	317.56	317.63	323.60	325.21	325.85
299.10	309.17	309.12	312.10	317.69	317.70	324.20	325.24	325.99
299.50	309.27	309.20	312.40	318.31	317.77	324.30	325.27	326.06
299.70	309.37	309.27	312.80	318.56	317.91	324.40	325.31	326.13
299.80	309.70	309.34	312.90	318.66	318.13	324.60	325.35	326.21
299.90	310.02	309.47	313.00	318.78	318.41	324.90	325.38	326.42
300.00	310.54	309.90	313.10	319.20	318.55	325.10	325.44	326.63
300.10	310.75	310.17	313.30	319.33	318.62	325.20	325.63	326.81
300.30	310.80	310.36	313.40	319.46	318.69	325.30	325.87	326.88
301.00	310.84	310.50	313.70	319.70	319.05	325.40	325.94	327.00
301.20	310.88	310.57	314.00	320.04	319.33	325.60	325.99	327.12
301.30	310.91	310.73	314.10	320.32	319.40	325.80	326.03	327.19
301.90	310.93	310.92	314.20	320.36	319.47	326.00	326.07	327.26
302.00	311.00	310.99	314.40	320.40	319.54	326.10	326.18	327.33
302.50	311.13	311.12	314.70	320.46	319.62	326.20	326.60	327.40
302.60	311.26	311.23	314.80	320.56	319.76	326.50	326.85	327.61
302.80	311.30	311.30	314.90	320.73	320.05	326.80	326.92	327.74
303.50	311.40	311.45	315.00	321.12	320.32	326.90	327.03	327.82
303.60	311.47	311.68	315.20	321.24	320.39	327.10	327.16	327.96
303.70	311.66	311.93	315.30	321.34	320.46	327.20	327.23	328.10
303.80	311.95	312.08	315.60	321.75	320.56	327.30	327.29	328.22
304.00	312.03	312.28	315.70	322.02	320.70	327.40	327.32	328.29
304.40	312.16	312.53	315.90	322.17	321.05	327.70	327.40	328.48
304.50	312.46	312.80	316.00	322.23	321.24	327.80	327.65	328.63
304.70	312.79	312.87	316.10	322.26	321.32	328.00	327.74	328.70
304.80	312.85	312.95	316.20	322.32	321.46	328.20	327.94	328.77
304.90	312.88	313.02	316.80	322.40	321.65	328.30	328.04	328.84
305.00	312.91	313.09	317.10	322.56	321.88	328.60	328.24	328.93
305.30	312.94	313.22	317.50	322.58	322.16	328.70	328.29	329.21
305.60	312.97	313.33	317.60	322.60	322.26	328.80	328.35	329.49
305.70	313.00	313.41	317.70	322.61	322.33	328.90	328.65	329.73
305.80	313.04	313.62	317.80	322.63	322.40	329.30	328.78	329.87
306.30	313.07	313.83	318.10	322.64	322.47	329.70	328.83	329.96
306.40	313.10	314.02	318.50	322.65	322.54	329.90	329.08	330.05
306.50	313.18	314.09	318.60	322.67	322.61	330.00	329.28	330.19
306.60	313.33	314.16	318.70	322.86	322.68	330.20	329.39	330.40
306.80	313.42	314.26	319.30	323.11	322.90	330.50	329.47	330.54
307.20	313.53	314.40	319.40	323.14	323.12	330.60	329.62	330.61
307.30	313.82	314.61	319.50	323.26	323.19	330.80	329.84	330.75
307.40	314.07	314.74	319.60	323.36	323.26	330.90	329.93	330.85
307.50	314.34	314.81	319.80	323.42	323.33	331.20	329.97	330.95
307.80	314.53	314.88	320.30	323.47	323.40	331.40	330.17	331.16

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
331.50	330.46	331.31	342.30	339.21	338.71	352.20	346.03	345.92
331.70	330.65	331.43	342.40	339.27	338.97	352.30	346.26	345.99
331.80	330.89	331.50	342.60	339.34	339.18	352.40	346.38	346.06
331.90	331.03	331.63	342.70	339.62	339.26	352.60	346.50	346.19
332.00	331.44	331.74	342.90	339.76	339.33	352.90	346.71	346.40
332.40	331.50	331.81	343.10	339.83	339.41	353.20	347.23	346.54
332.50	331.64	331.88	343.20	339.84	339.69	353.30	347.44	346.71
332.60	331.77	331.95	343.60	339.86	339.84	353.40	347.56	346.92
332.70	331.94	332.06	343.80	339.94	339.91	353.50	347.66	347.20
332.90	332.35	332.34	344.00	340.01	339.98	353.80	347.83	347.34
333.30	332.41	332.46	344.10	340.04	340.05	353.90	347.97	347.41
333.40	332.44	332.53	344.20	340.11	340.14	354.00	348.04	347.48
333.50	332.47	332.60	344.50	340.27	340.28	354.10	348.23	347.55
333.60	332.55	332.67	344.70	340.34	340.36	354.20	348.43	347.66
333.80	332.74	332.77	344.80	340.38	340.43	354.30	348.47	347.86
334.20	332.86	332.92	344.90	340.42	340.50	354.40	348.51	348.07
334.30	332.94	333.20	345.10	340.44	340.85	354.50	348.70	348.22
334.40	333.03	333.35	345.40	340.49	341.08	354.80	348.82	348.29
334.50	333.24	333.42	345.50	340.67	341.22	354.90	348.93	348.36
334.60	333.34	333.49	345.60	340.87	341.36	355.00	349.31	348.43
334.70	333.44	333.56	345.70	341.25	341.55	355.10	349.39	348.50
334.90	333.56	333.65	345.80	341.53	341.74	355.20	349.48	348.57
335.20	333.67	333.79	345.90	341.72	341.88	355.30	349.65	348.67
335.30	333.75	334.06	346.00	341.84	341.96	355.70	349.69	348.80
335.40	333.79	334.24	346.10	341.94	342.03	355.90	349.83	348.87
335.50	334.16	334.31	346.40	342.04	342.10	356.00	350.19	349.07
335.60	334.29	334.38	346.60	342.17	342.17	356.10	350.26	349.31
336.30	334.32	334.45	346.90	342.32	342.24	356.20	350.30	349.38
336.40	334.55	334.52	347.30	342.41	342.31	356.30	350.38	349.49
336.50	334.67	334.59	347.40	342.54	342.38	356.60	350.46	349.62
336.70	334.69	334.66	347.50	342.58	342.49	356.70	350.55	349.68
337.00	334.74	334.75	347.60	342.62	342.61	356.80	350.57	349.91
337.10	334.79	334.89	347.90	342.83	342.68	356.90	350.63	350.12
337.30	335.06	335.10	348.20	343.00	342.81	357.20	350.87	350.19
337.40	335.22	335.24	348.30	343.12	342.95	357.30	350.95	350.26
337.60	335.25	335.31	348.40	343.16	343.08	357.60	351.02	350.33
338.00	335.28	335.38	348.50	343.38	343.16	357.70	351.06	350.39
338.10	335.31	335.45	348.60	343.67	343.32	357.80	351.10	350.46
338.20	335.32	335.52	348.80	343.72	343.60	357.90	351.17	350.53
338.30	335.37	335.58	348.90	343.77	343.74	358.10	351.23	350.60
338.50	335.44	335.98	349.30	343.91	343.88	358.20	351.29	350.67
338.90	335.49	336.32	349.40	344.06	344.01	358.50	351.34	350.80
339.20	335.97	336.39	349.60	344.34	344.08	358.70	351.38	351.00
339.30	336.35	336.46	349.70	344.51	344.15	358.80	351.49	351.07
339.40	336.45	336.57	350.10	344.56	344.25	358.90	351.58	351.18
339.80	336.49	336.71	350.20	344.66	344.46	359.00	351.62	351.31
339.90	336.66	336.92	350.30	344.73	344.61	359.10	351.67	351.38
340.00	336.99	337.04	350.40	344.84	344.72	359.40	351.77	351.44
340.10	337.11	337.13	350.50	344.99	344.79	359.60	351.86	351.51
340.30	337.31	337.27	350.60	345.02	344.86	359.70	352.03	351.58
340.40	337.39	337.35	350.70	345.07	344.96	359.80	352.10	351.65
340.50	337.49	337.45	351.00	345.15	345.10	360.00	352.12	351.75
341.00	337.75	337.59	351.10	345.28	345.31	360.40	352.18	351.95
341.20	338.16	337.86	351.30	345.58	345.44	360.50	352.25	352.05
341.40	338.20	338.03	351.40	345.70	345.51	360.60	352.33	352.12
341.70	338.23	338.10	351.50	345.73	345.58	360.70	352.46	352.19
341.90	338.27	338.17	351.60	345.76	345.65	360.80	352.52	352.25
342.00	338.36	338.24	351.70	345.82	345.72	360.90	352.54	352.32
342.10	338.58	338.33	352.00	345.89	345.79	361.30	352.58	352.39
342.20	339.10	338.47	352.10	345.94	345.85	361.50	352.64	352.52

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
361.60	352.76	352.68	370.30	358.85	358.89	378.50	365.39	365.51
361.70	352.98	352.88	370.60	358.93	358.96	378.60	365.43	365.58
361.80	353.12	353.09	370.70	359.01	359.03	378.70	365.45	365.74
362.20	353.23	353.23	370.80	359.05	359.10	379.10	365.47	365.92
362.30	353.29	353.30	370.90	359.21	359.29	379.20	365.50	365.98
362.50	353.38	353.37	371.00	359.49	359.47	379.30	365.87	366.05
362.60	353.47	353.43	371.10	359.55	359.60	379.40	365.98	366.12
362.70	353.49	353.50	371.20	359.60	359.67	379.50	366.00	366.19
362.90	353.55	353.71	371.30	359.62	359.74	379.60	366.03	366.26
363.10	353.61	353.84	371.50	359.68	359.81	379.70	366.08	366.33
363.20	353.66	353.90	371.60	359.81	359.95	379.90	366.21	366.40
363.40	353.82	353.97	371.80	360.36	360.16	380.00	366.31	366.47
363.50	353.94	354.04	372.00	360.52	360.41	380.10	366.36	366.67
363.60	353.99	354.11	372.10	360.55	360.48	380.20	366.42	366.94
363.70	354.04	354.18	372.20	360.59	360.55	380.30	366.50	367.15
363.80	354.09	354.24	372.50	360.64	360.61	380.40	366.61	367.25
364.10	354.16	354.31	372.60	360.67	360.68	380.50	366.79	367.32
364.20	354.20	354.38	372.70	360.68	360.75	380.60	367.15	367.39
364.40	354.27	354.45	372.80	360.76	360.82	380.90	367.29	367.46
364.60	354.38	354.54	373.00	360.88	360.89	381.00	367.33	367.60
364.70	354.45	354.74	373.10	361.12	361.12	381.10	367.46	367.80
365.00	354.57	354.85	373.40	361.23	361.35	381.20	367.82	367.87
365.20	354.87	354.92	373.70	361.51	361.48	381.30	367.86	367.94
365.30	355.03	354.98	373.80	361.73	361.56	381.40	367.88	368.01
365.40	355.15	355.05	373.90	361.79	361.63	381.50	367.91	368.08
365.50	355.17	355.12	374.00	361.92	361.70	381.80	367.96	368.16
365.60	355.19	355.19	374.10	362.04	361.77	381.90	368.04	368.23
365.90	355.21	355.26	374.30	362.15	361.93	382.00	368.09	368.30
366.00	355.25	355.39	374.40	362.22	362.20	382.10	368.22	368.37
366.10	355.29	355.66	374.50	362.24	362.27	382.20	368.36	368.44
366.20	355.72	355.82	374.60	362.51	362.38	382.30	368.41	368.52
366.30	355.99	355.93	374.70	362.63	362.51	382.40	368.47	368.66
366.40	356.00	355.99	374.80	362.68	362.58	382.50	368.61	368.75
366.50	356.03	356.06	374.90	362.73	362.64	382.70	368.73	368.82
366.90	356.07	356.13	375.00	362.78	362.73	382.80	368.86	368.89
367.20	356.17	356.20	375.30	362.98	362.86	382.90	368.89	368.96
367.30	356.29	356.26	375.40	363.05	363.00	383.00	369.00	369.03
367.40	356.39	356.40	375.50	363.07	363.12	383.10	369.13	369.10
367.50	356.44	356.60	375.60	363.18	363.19	383.20	369.17	369.18
367.80	356.58	356.67	375.70	363.42	363.31	383.30	369.19	369.25
367.90	356.66	356.74	375.80	363.45	363.43	383.40	369.22	369.32
368.00	356.73	356.80	375.90	363.49	363.49	383.70	369.26	369.39
368.10	356.84	356.87	376.30	363.52	363.56	383.80	369.32	369.58
368.20	356.90	357.02	376.40	363.56	363.63	383.90	369.39	369.73
368.30	357.04	357.21	376.50	363.71	363.70	384.00	369.51	369.81
368.40	357.22	357.27	376.70	363.92	363.77	384.10	369.54	369.95
368.50	357.35	357.43	376.80	363.99	363.92	384.20	369.72	370.05
368.70	357.53	357.61	376.90	364.11	364.11	384.30	369.75	370.12
368.80	357.61	357.68	377.10	364.18	364.18	384.60	369.79	370.19
368.90	357.65	357.75	377.20	364.27	364.29	384.70	369.86	370.26
369.00	357.76	357.81	377.30	364.30	364.43	384.80	369.92	370.40
369.10	357.86	357.88	377.40	364.52	364.57	384.90	370.17	370.61
369.20	357.90	358.00	377.50	364.63	364.65	385.00	370.27	370.68
369.30	357.98	358.12	377.60	364.64	364.77	385.10	370.35	370.75
369.40	358.03	358.19	377.70	364.67	364.97	385.20	370.45	370.82
369.70	358.07	358.36	377.80	364.79	365.12	385.50	370.53	370.89
369.80	358.14	358.54	378.10	364.94	365.23	385.60	370.60	370.97
370.00	358.60	358.68	378.20	365.03	365.30	385.70	370.62	371.04
370.10	358.78	358.76	378.30	365.20	365.37	385.80	370.76	371.11
370.20	358.81	358.82	378.40	365.33	365.44	385.90	370.95	371.18



PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
386.00	371.00	371.25	394.10	377.42	377.50	401.90	383.23	383.22
386.10	371.05	371.35	394.20	377.67	377.58	402.00	383.28	383.30
386.20	371.13	371.50	394.30	377.99	377.66	402.30	383.37	383.38
386.50	371.19	371.57	394.40	378.08	377.73	402.50	383.54	383.57
386.60	371.26	371.69	394.50	378.11	377.82	402.60	383.78	383.74
386.70	371.54	371.83	394.60	378.14	378.05	402.70	383.88	383.81
386.80	371.66	371.98	394.90	378.25	378.16	402.80	383.93	383.89
386.90	371.69	372.06	395.00	378.32	378.24	403.00	384.02	383.97
387.00	371.80	372.14	395.10	378.43	378.31	403.20	384.16	384.05
387.10	371.94	372.22	395.20	378.52	378.39	403.30	384.22	384.13
387.40	372.00	372.44	395.30	378.54	378.46	403.40	384.26	384.20
387.50	372.05	372.55	395.40	378.67	378.54	403.50	384.38	384.28
387.60	372.11	372.63	395.50	378.83	378.62	403.60	384.62	384.48
387.70	372.31	372.70	395.80	379.00	378.69	403.70	384.66	384.64
387.80	372.54	372.77	395.90	379.06	378.98	403.80	384.70	384.72
387.90	372.57	372.89	396.10	379.20	379.15	403.90	384.74	384.79
388.00	372.63	373.02	396.20	379.32	379.22	404.20	384.88	384.87
388.30	372.73	373.09	396.30	379.37	379.30	404.30	384.96	384.95
388.40	372.77	373.30	396.40	379.41	379.38	404.40	385.00	385.03
388.50	372.80	373.52	396.70	379.43	379.45	404.50	385.08	385.11
388.60	373.02	373.71	396.80	379.46	379.53	404.60	385.26	385.19
388.70	373.10	373.79	396.90	379.50	379.61	404.70	385.52	385.39
388.80	373.19	373.86	397.00	379.60	379.68	405.10	385.58	385.54
388.90	373.43	373.93	397.10	379.82	379.82	405.20	385.62	385.62
389.00	373.67	374.01	397.20	379.93	379.94	405.30	385.65	385.70
389.30	373.74	374.08	397.30	379.96	380.01	405.40	385.87	385.78
389.40	373.80	374.21	397.40	380.00	380.09	405.50	386.02	385.86
389.50	373.96	374.33	397.70	380.18	380.17	405.60	386.09	385.93
389.60	374.02	374.40	397.80	380.28	380.24	405.70	386.13	386.01
389.70	374.05	374.48	397.90	380.45	380.32	405.80	386.16	386.09
389.80	374.21	374.55	398.00	380.58	380.40	406.00	386.26	386.17
389.90	374.25	374.63	398.10	380.76	380.48	406.10	386.43	386.35
390.20	374.31	374.70	398.20	380.89	380.55	406.20	386.53	386.53
390.40	374.35	374.78	398.30	380.92	380.69	406.30	386.69	386.61
390.50	374.48	374.85	398.60	380.98	380.91	406.40	386.85	386.68
390.60	374.60	374.92	398.70	381.09	380.98	406.50	386.90	386.76
390.70	374.66	375.00	398.80	381.20	381.06	406.60	387.00	386.84
390.80	374.74	375.22	398.90	381.29	381.14	406.70	387.09	386.92
391.10	374.88	375.35	399.00	381.38	381.22	407.00	387.40	387.00
391.20	374.96	375.42	399.10	381.42	381.29	407.10	387.53	387.08
391.30	375.17	375.50	399.20	381.47	381.37	407.20	387.62	387.27
391.40	375.38	375.57	399.50	381.67	381.45	407.30	387.76	387.43
391.50	375.59	375.65	399.60	381.81	381.58	407.40	387.90	387.51
391.60	375.65	375.72	399.70	381.85	381.80	407.50	387.92	387.59
391.70	375.69	375.80	399.80	382.03	381.88	407.60	387.94	387.67
391.80	375.73	375.87	399.90	382.18	381.96	407.90	388.03	387.75
392.10	375.79	376.09	400.00	382.25	382.04	408.00	388.27	387.83
392.20	375.87	376.32	400.10	382.32	382.11	408.10	388.35	387.91
392.30	376.35	376.40	400.20	382.36	382.19	408.20	388.55	387.98
392.40	376.50	376.47	400.40	382.41	382.27	408.30	388.69	388.19
392.50	376.59	376.60	400.50	382.45	382.35	408.40	388.73	388.34
392.60	376.63	376.72	400.60	382.52	382.42	408.50	388.77	388.42
392.70	376.68	376.80	400.70	382.68	382.50	408.60	388.84	388.50
393.00	376.73	376.87	400.90	382.73	382.66	408.80	388.90	388.58
393.20	376.80	377.00	401.00	382.79	382.76	408.90	388.92	388.66
393.30	376.89	377.13	401.40	382.88	382.83	409.00	388.94	388.74
393.40	377.03	377.20	401.50	382.94	382.91	409.10	389.19	388.81
393.50	377.09	377.28	401.60	382.97	382.99	409.20	389.32	388.89
393.90	377.18	377.35	401.70	383.05	383.07	409.30	389.37	388.97
394.00	377.29	377.43	401.80	383.18	383.15	409.40	389.43	389.15

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
409.50	389.47	389.33	417.30	395.85	395.73	424.90	401.77	402.23
409.80	389.52	389.41	417.40	395.88	395.86	425.00	401.87	402.42
409.90	389.63	389.49	417.50	396.04	395.97	425.10	401.99	402.54
410.00	389.67	389.57	417.60	396.14	396.12	425.20	402.13	402.63
410.10	389.75	389.64	417.70	396.16	396.20	425.30	402.32	402.71
410.30	389.95	389.72	417.80	396.18	396.28	425.60	402.55	402.80
410.40	390.19	389.80	417.90	396.20	396.36	425.70	402.60	402.96
410.70	390.31	389.88	418.20	396.25	396.51	425.80	402.65	403.13
410.80	390.41	390.08	418.30	396.36	396.72	425.90	402.75	403.25
410.90	390.46	390.28	418.40	396.65	396.80	426.00	402.95	403.34
411.00	390.56	390.42	418.50	396.83	396.88	426.10	403.04	403.42
411.10	390.67	390.50	418.60	396.88	396.96	426.20	403.11	403.51
411.20	390.71	390.57	418.70	396.93	397.04	426.30	403.19	403.59
411.30	390.75	390.65	418.80	396.96	397.12	426.60	403.24	403.68
411.40	390.77	390.73	419.10	396.99	397.20	426.70	403.35	403.76
411.60	390.90	390.83	419.20	397.01	397.28	426.80	403.49	403.85
411.70	391.09	391.07	419.30	397.03	397.36	426.90	403.67	403.99
411.90	391.22	391.17	419.40	397.13	397.52	427.00	403.73	404.22
412.00	391.33	391.25	419.50	397.20	397.72	427.10	403.78	404.30
412.10	391.44	391.33	419.60	397.22	397.80	427.20	403.83	404.39
412.30	391.53	391.41	419.70	397.25	397.88	427.50	403.96	404.47
412.60	391.68	391.48	419.80	397.28	397.96	427.60	404.21	404.56
412.70	391.75	391.56	420.00	397.33	398.04	427.70	404.29	404.65
412.80	392.12	391.64	420.10	397.39	398.12	427.80	404.44	404.82
412.90	392.29	391.72	420.20	397.47	398.20	427.90	404.60	405.12
413.00	392.36	391.80	420.30	397.84	398.29	428.00	404.78	405.20
413.10	392.40	392.04	420.40	397.97	398.50	428.10	405.13	405.29
413.20	392.43	392.16	420.50	398.01	398.65	428.40	405.35	405.37
413.50	392.46	392.24	420.60	398.06	398.73	428.50	405.42	405.46
413.60	392.57	392.32	420.70	398.15	398.81	428.60	405.45	405.55
413.70	392.67	392.40	421.00	398.25	398.89	428.70	405.61	405.63
413.80	393.11	392.47	421.10	398.37	398.97	428.80	405.75	405.72
413.90	393.27	392.55	421.20	398.65	399.06	428.90	405.78	405.81
414.00	393.38	392.63	421.30	398.78	399.14	429.00	405.82	405.99
414.10	393.44	392.73	421.40	398.82	399.26	429.10	405.88	406.08
414.20	393.53	392.97	421.50	398.85	399.50	429.40	406.05	406.17
414.40	393.75	393.14	421.60	398.89	399.58	429.50	406.14	406.25
414.50	393.87	393.25	421.90	398.93	399.67	429.60	406.30	406.34
414.60	393.91	393.33	422.00	399.04	399.75	429.70	406.48	406.43
414.70	394.03	393.41	422.10	399.09	399.83	429.80	406.52	406.51
414.80	394.27	393.49	422.20	399.19	399.91	429.90	406.59	406.60
414.90	394.31	393.76	422.30	399.42	399.99	430.00	406.66	406.69
415.00	394.34	393.95	422.40	399.54	400.08	430.30	406.85	406.92
415.10	394.35	394.02	422.50	399.61	400.16	430.40	406.97	407.06
415.40	394.49	394.10	422.80	399.70	400.28	430.50	407.02	407.15
415.50	394.55	394.18	422.90	399.79	400.42	430.60	407.15	407.23
415.60	394.79	394.26	423.00	399.86	400.51	430.70	407.27	407.32
415.70	394.98	394.34	423.10	400.04	400.59	430.80	407.33	407.41
415.80	395.00	394.42	423.20	400.27	400.67	430.90	407.40	407.50
415.90	395.02	394.50	423.30	400.37	400.81	431.20	407.52	407.58
416.00	395.04	394.58	423.40	400.49	400.94	431.30	407.78	407.81
416.30	395.08	394.78	423.50	400.56	401.09	431.40	407.90	407.96
416.40	395.14	394.94	423.80	400.59	401.41	431.50	408.15	408.04
416.50	395.17	395.02	423.90	400.76	401.49	431.60	408.37	408.13
416.60	395.24	395.10	424.00	401.20	401.57	431.70	408.45	408.22
416.70	395.36	395.18	424.10	401.53	401.66	431.80	408.46	408.31
416.80	395.42	395.26	424.30	401.57	401.74	431.90	408.49	408.39
416.90	395.47	395.34	424.40	401.64	401.82	432.20	408.58	408.48
417.00	395.55	395.42	424.70	401.69	401.91	432.30	408.77	408.57
417.20	395.76	395.50	424.80	401.74	401.99	432.40	408.97	408.71

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
432.50	409.15	408.84	439.90	415.44	415.64	447.20	422.27	422.33
432.60	409.21	408.93	440.00	415.63	415.73	447.30	422.34	422.43
432.70	409.25	409.02	440.10	415.69	415.82	447.40	422.76	422.56
432.80	409.32	409.11	440.20	415.77	415.91	447.50	423.02	422.81
433.10	409.41	409.20	440.30	415.81	416.01	447.60	423.05	422.91
433.20	409.57	409.28	440.50	415.85	416.27	447.70	423.10	423.00
433.30	409.77	409.37	440.60	415.94	416.38	448.00	423.17	423.09
433.40	409.97	409.46	440.70	416.08	416.47	448.10	423.23	423.19
433.50	410.17	409.64	440.80	416.39	416.56	448.20	423.29	423.28
433.60	410.37	409.83	440.90	416.50	416.65	448.30	423.46	423.38
433.70	410.56	409.92	441.00	416.53	416.74	448.40	423.81	423.47
434.00	410.68	410.01	441.10	416.58	416.83	448.50	423.87	423.69
434.10	410.72	410.10	441.20	416.64	416.92	448.60	423.97	423.86
434.20	410.77	410.27	441.50	416.71	417.02	448.70	424.08	423.95
434.30	410.99	410.37	441.60	416.78	417.20	448.90	424.27	424.04
434.40	411.12	410.58	441.70	416.83	417.29	449.00	424.37	424.18
434.50	411.17	410.75	441.80	416.96	417.38	449.10	424.54	424.33
434.60	411.22	410.84	441.90	417.23	417.47	449.20	424.88	424.48
434.70	411.26	410.92	442.00	417.32	417.56	449.30	425.04	424.72
434.90	411.33	411.01	442.10	417.37	417.65	449.40	425.09	424.81
435.00	411.37	411.10	442.40	417.43	417.75	449.50	425.15	424.91
435.10	411.42	411.19	442.50	417.48	417.84	449.60	425.20	425.00
435.20	411.67	411.28	442.60	417.50	417.98	449.90	425.25	425.10
435.30	411.88	411.36	442.70	417.64	418.22	450.00	425.40	425.19
435.40	411.94	411.50	442.80	417.82	418.31	450.10	425.72	425.29
435.50	411.99	411.64	442.90	417.88	418.40	450.20	425.85	425.54
435.60	412.02	411.76	443.00	417.97	418.49	450.30	425.90	425.67
435.90	412.07	411.92	443.10	418.04	418.58	450.40	425.94	425.77
436.00	412.13	412.00	443.30	418.25	418.67	450.50	426.03	425.86
436.10	412.18	412.09	443.40	418.37	418.77	450.80	426.15	425.96
436.20	412.50	412.26	443.50	418.42	418.97	450.90	426.20	426.05
436.30	412.78	412.51	443.60	418.58	419.15	451.00	426.24	426.14
436.40	412.86	412.66	443.70	418.75	419.24	451.10	426.58	426.24
436.50	412.93	412.75	443.80	418.78	419.33	451.20	426.70	426.40
436.80	413.02	412.83	443.90	418.87	419.42	451.30	426.74	426.63
436.90	413.07	412.92	444.00	419.11	419.52	451.40	426.81	426.72
437.00	413.12	413.01	444.30	419.23	419.61	451.50	426.87	426.82
437.10	413.44	413.10	444.40	419.30	419.70	451.70	426.92	426.91
437.20	413.59	413.19	444.50	419.38	419.79	451.80	426.97	427.01
437.30	413.66	413.43	444.60	419.67	419.97	451.90	427.00	427.10
437.40	413.69	413.56	444.70	419.98	420.08	452.00	427.19	427.19
437.50	413.71	413.65	444.80	420.09	420.17	452.10	427.57	427.47
437.70	413.77	413.74	444.90	420.17	420.26	452.20	427.62	427.58
437.80	413.84	413.83	445.20	420.24	420.35	452.30	427.67	427.68
437.90	413.95	413.92	445.30	420.39	420.45	452.40	427.71	427.77
438.00	414.03	414.01	445.40	420.45	420.54	452.70	427.75	427.87
438.10	414.11	414.10	445.50	420.59	420.63	452.80	427.82	427.96
438.20	414.15	414.19	445.60	420.78	420.77	452.90	428.00	428.06
438.30	414.19	414.35	445.70	420.93	421.02	453.00	428.32	428.26
438.40	414.24	414.46	445.80	421.06	421.11	453.10	428.46	428.45
438.70	414.41	414.55	445.90	421.13	421.20	453.20	428.53	428.54
438.80	414.52	414.64	446.10	421.23	421.30	453.30	428.57	428.64
438.90	414.57	414.73	446.20	421.32	421.39	453.60	428.64	428.73
439.00	414.64	414.82	446.30	421.37	421.48	453.70	428.70	428.83
439.10	414.77	414.91	446.40	421.51	421.57	453.80	428.75	428.92
439.20	414.85	415.00	446.50	421.66	421.80	453.90	428.94	429.02
439.30	414.90	415.09	446.60	421.84	421.96	454.00	429.09	429.13
439.60	414.98	415.33	446.70	421.99	422.05	454.10	429.25	429.41
439.70	415.04	415.46	446.80	422.09	422.15	454.20	429.40	429.50
439.80	415.06	415.55	447.10	422.18	422.24	454.30	429.46	429.60

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
454.50	429.59	429.69	462.10	437.04	436.92	469.70	443.78	443.83
454.60	429.74	429.79	462.20	437.10	437.02	469.80	443.96	443.93
454.70	429.78	429.88	462.30	437.21	437.12	469.90	444.03	444.09
454.80	430.17	429.98	462.40	437.32	437.21	470.00	444.32	444.33
454.90	430.44	430.21	462.50	437.39	437.31	470.10	444.39	444.43
455.00	430.49	430.37	462.60	437.48	437.40	470.40	444.48	444.52
455.10	430.53	430.46	462.90	437.61	437.50	470.50	444.55	444.62
455.20	430.64	430.56	463.00	437.73	437.69	470.60	444.64	444.72
455.50	430.78	430.65	463.10	437.76	437.79	470.70	444.77	444.82
455.60	430.83	430.75	463.20	437.91	437.89	470.80	444.94	444.96
455.70	431.10	430.84	463.30	438.08	437.98	470.90	445.21	445.22
455.80	431.28	431.01	463.40	438.14	438.08	471.00	445.33	445.32
455.90	431.30	431.23	463.50	438.20	438.18	471.30	445.45	445.41
456.00	431.32	431.33	463.60	438.23	438.27	471.40	445.51	445.51
456.10	431.34	431.42	463.90	438.32	438.37	471.50	445.54	445.61
456.40	431.38	431.52	464.00	438.43	438.59	471.60	445.77	445.71
456.50	431.44	431.61	464.10	438.80	438.76	471.70	445.98	445.81
456.60	431.49	431.71	464.20	438.96	438.86	471.80	446.12	445.92
456.70	431.68	431.81	464.30	439.01	438.95	471.90	446.19	446.11
456.80	431.90	431.90	464.40	439.09	439.05	472.00	446.25	446.21
456.90	432.10	432.19	464.50	439.16	439.15	472.20	446.35	446.31
457.00	432.25	432.29	464.80	439.25	439.24	472.30	446.46	446.40
457.30	432.35	432.39	464.90	439.29	439.41	472.40	446.48	446.50
457.40	432.38	432.48	465.00	439.38	439.63	472.50	446.69	446.60
457.50	432.41	432.58	465.10	439.65	439.73	472.60	447.12	446.70
457.60	432.62	432.67	465.20	439.79	439.83	472.70	447.19	446.80
457.70	432.83	432.77	465.30	439.84	439.92	472.80	447.29	447.10
457.80	433.01	432.99	465.40	439.93	440.02	472.90	447.37	447.20
457.90	433.14	433.16	465.70	440.02	440.12	473.20	447.43	447.30
458.00	433.21	433.26	465.80	440.11	440.21	473.30	447.55	447.40
458.30	433.36	433.35	465.90	440.18	440.32	473.40	447.60	447.50
458.40	433.48	433.45	466.00	440.32	440.51	473.50	447.75	447.60
458.50	433.74	433.54	466.10	440.55	440.60	473.60	448.02	447.70
458.60	434.14	433.64	466.20	440.59	440.70	473.70	448.10	447.99
458.70	434.19	433.80	466.30	440.62	440.80	473.80	448.17	448.10
458.80	434.22	434.03	466.40	440.66	440.90	474.10	448.22	448.20
458.90	434.25	434.13	466.70	440.74	440.99	474.20	448.29	448.30
459.20	434.36	434.22	466.80	440.83	441.09	474.30	448.35	448.40
459.30	434.47	434.32	466.90	440.94	441.19	474.40	448.50	448.50
459.40	434.55	434.41	467.00	441.12	441.45	474.50	448.66	448.60
459.50	434.73	434.51	467.10	441.29	441.58	474.60	448.84	448.69
459.60	435.01	434.60	467.20	441.51	441.68	474.70	448.91	448.89
459.70	435.06	434.70	467.30	441.58	441.77	474.80	448.95	448.99
459.80	435.13	434.89	467.60	441.72	441.87	475.00	449.01	449.09
460.10	435.21	434.99	467.70	441.88	441.97	475.10	449.06	449.19
460.20	435.28	435.09	467.80	441.94	442.07	475.20	449.08	449.29
460.30	435.34	435.18	467.90	442.04	442.29	475.30	449.19	449.40
460.40	435.46	435.28	468.00	442.25	442.46	475.40	449.32	449.50
460.50	435.59	435.37	468.10	442.41	442.56	475.50	449.37	449.60
460.60	435.87	435.47	468.20	442.47	442.66	475.60	449.42	449.89
460.70	435.96	435.57	468.50	442.54	442.75	475.70	449.50	450.00
460.80	436.01	435.78	468.60	442.62	442.85	476.00	449.60	450.10
461.10	436.07	435.96	468.70	442.66	442.95	476.20	449.85	450.20
461.20	436.16	436.05	468.80	442.80	443.05	476.30	450.08	450.30
461.30	436.35	436.15	468.90	443.04	443.19	476.40	450.34	450.40
461.40	436.51	436.24	469.00	443.27	443.34	476.50	450.44	450.50
461.50	436.56	436.34	469.10	443.39	443.44	476.60	450.56	450.80
461.60	436.68	436.44	469.20	443.44	443.54	476.90	450.83	450.90
461.70	436.86	436.59	469.50	443.53	443.64	477.00	450.93	451.00
462.00	436.96	436.83	469.60	443.61	443.74	477.10	450.96	451.10

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
477.20	451.09	451.20	484.50	458.86	458.68	491.90	465.95	466.33
477.30	451.29	451.30	484.60	458.90	458.78	492.00	466.00	466.49
477.40	451.34	451.40	484.70	459.40	458.88	492.10	466.15	466.73
477.50	451.39	451.51	484.80	459.69	459.14	492.20	466.32	466.83
477.60	451.44	451.71	484.90	459.76	459.28	492.30	466.36	466.93
477.80	451.55	451.81	485.00	459.92	459.38	492.40	466.53	467.04
477.90	451.79	451.91	485.30	460.10	459.48	492.50	466.71	467.14
478.00	451.88	452.01	485.40	460.15	459.58	492.80	466.78	467.24
478.10	452.07	452.11	485.50	460.21	459.68	492.90	466.84	467.43
478.20	452.23	452.21	485.60	460.34	459.79	493.00	467.07	467.65
478.30	452.27	452.31	485.70	460.51	460.06	493.10	467.24	467.75
478.40	452.33	452.44	485.90	460.59	460.19	493.20	467.35	467.85
478.50	452.43	452.71	486.00	460.68	460.29	493.30	467.59	467.95
478.80	452.73	452.81	486.20	460.78	460.39	493.40	467.65	468.06
478.90	452.80	452.92	486.30	460.91	460.49	493.70	467.72	468.16
479.00	452.85	453.02	486.40	461.07	460.59	493.80	467.85	468.38
479.10	453.05	453.12	486.50	461.22	460.69	493.90	467.92	468.56
479.20	453.33	453.22	486.60	461.34	460.79	494.00	468.18	468.67
479.30	453.53	453.36	486.70	461.40	461.07	494.10	468.63	468.77
479.40	453.65	453.62	486.80	461.46	461.19	494.20	468.69	468.87
479.70	453.69	453.72	486.90	461.49	461.29	494.30	468.83	468.98
479.80	453.75	453.83	487.20	461.55	461.39	494.60	468.98	469.08
479.90	453.87	453.93	487.30	461.64	461.49	494.70	469.05	469.18
480.00	454.07	454.03	487.40	461.98	461.59	494.80	469.09	469.46
480.10	454.25	454.13	487.50	462.18	461.69	494.90	469.52	469.59
480.20	454.29	454.23	487.60	462.24	461.99	495.00	469.81	469.69
480.30	454.36	454.37	487.70	462.35	462.10	495.10	469.89	469.79
480.40	454.53	454.53	487.80	462.43	462.20	495.20	469.95	469.90
480.60	454.67	454.64	488.10	462.55	462.30	495.30	469.99	470.00
480.70	454.80	454.74	488.20	462.66	462.40	495.60	470.07	470.12
480.80	454.87	454.84	488.30	462.85	462.50	495.70	470.37	470.41
480.90	455.01	454.94	488.40	463.07	462.60	495.80	470.72	470.51
481.00	455.47	455.04	488.50	463.18	462.90	495.90	470.93	470.62
481.10	455.55	455.14	488.60	463.26	463.00	496.00	470.99	470.72
481.20	455.58	455.33	488.70	463.31	463.10	496.10	471.09	470.82
481.30	455.63	455.55	488.80	463.34	463.20	496.20	471.21	470.93
481.60	455.74	455.65	489.00	463.44	463.30	496.50	471.35	471.09
481.70	455.84	455.75	489.10	463.52	463.40	496.60	471.48	471.33
481.80	455.92	455.85	489.20	463.56	463.50	496.70	471.55	471.44
481.90	456.09	455.95	489.30	463.77	463.61	496.80	471.76	471.54
482.00	456.52	456.05	489.40	463.97	463.90	496.90	471.96	471.64
482.10	456.58	456.26	489.50	464.07	464.00	497.00	472.04	471.75
482.20	456.63	456.46	489.60	464.11	464.11	497.10	472.16	471.85
482.50	456.71	456.56	489.70	464.15	464.21	497.40	472.24	471.95
482.60	456.80	456.66	490.00	464.23	464.31	497.50	472.29	472.12
482.70	456.87	456.76	490.10	464.34	464.41	497.60	472.34	472.26
482.80	457.12	456.86	490.20	464.49	464.53	497.70	472.52	472.36
482.90	457.37	456.96	490.30	464.85	464.81	497.80	472.69	472.47
483.00	457.44	457.19	490.40	464.89	464.91	497.90	472.75	472.57
483.10	457.52	457.36	490.50	464.94	465.01	498.00	472.82	472.67
483.20	457.57	457.47	490.60	464.99	465.11	498.10	472.90	472.78
483.40	457.64	457.57	490.90	465.08	465.21	498.40	473.22	472.88
483.50	457.72	457.67	491.00	465.17	465.32	498.50	473.33	473.16
483.60	457.78	457.77	491.10	465.21	465.45	498.60	473.54	473.29
483.70	458.03	457.87	491.20	465.34	465.72	498.70	473.75	473.39
483.80	458.41	457.97	491.30	465.62	465.82	498.80	473.82	473.50
483.90	458.49	458.22	491.40	465.71	465.92	498.90	473.99	473.60
484.00	458.54	458.37	491.50	465.74	466.02	499.00	474.11	473.70
484.10	458.66	458.48	491.60	465.77	466.12	499.30	474.21	473.81
484.40	458.76	458.58	491.80	465.83	466.23	499.40	474.30	474.11

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
499.50	474.34	474.21	507.10	481.49	481.80	514.50	490.01	489.60
499.60	474.56	474.31	507.20	481.62	481.90	514.60	490.23	489.73
499.70	474.73	474.42	507.30	481.66	482.01	514.70	490.28	490.02
499.80	474.76	474.52	507.40	481.71	482.11	514.80	490.32	490.13
499.90	474.83	474.62	507.70	481.81	482.25	514.90	490.35	490.24
500.20	475.06	474.73	507.80	481.92	482.52	515.10	490.47	490.35
500.30	475.14	474.86	507.90	481.98	482.63	515.20	490.54	490.45
500.40	475.21	475.03	508.00	482.32	482.73	515.30	490.63	490.56
500.50	475.36	475.14	508.10	482.71	482.84	515.40	490.98	490.82
500.60	475.53	475.24	508.20	482.77	482.94	515.50	491.10	490.98
500.70	475.59	475.34	508.30	482.80	483.05	515.60	491.14	491.09
500.80	475.65	475.44	508.60	482.92	483.15	515.70	491.22	491.20
500.90	475.88	475.55	508.70	483.03	483.31	515.80	491.28	491.31
501.20	476.09	475.65	508.80	483.10	483.46	516.10	491.34	491.42
501.30	476.27	475.86	508.90	483.43	483.57	516.20	491.41	491.53
501.40	476.45	476.11	509.00	483.61	483.67	516.30	491.49	491.67
501.50	476.60	476.26	509.10	483.65	483.78	516.40	491.82	491.85
501.60	476.69	476.36	509.20	483.69	483.88	516.50	492.02	491.95
501.70	476.76	476.46	509.30	483.77	483.99	516.60	492.08	492.06
501.80	476.88	476.57	509.50	483.90	484.09	516.70	492.15	492.17
502.10	476.96	476.81	509.60	483.99	484.40	517.00	492.23	492.28
502.20	477.02	476.97	509.70	484.02	484.51	517.10	492.32	492.39
502.30	477.04	477.08	509.80	484.35	484.61	517.20	492.42	492.50
502.40	477.19	477.18	509.90	484.60	484.72	517.30	492.88	492.81
502.50	477.37	477.28	510.00	484.66	484.82	517.40	493.03	492.92
502.60	477.53	477.38	510.10	484.72	484.93	517.50	493.07	493.03
502.70	477.78	477.49	510.20	484.79	485.11	517.60	493.14	493.14
503.00	477.89	477.59	510.50	484.87	485.34	517.70	493.25	493.25
503.10	477.97	477.79	510.60	484.96	485.45	517.90	493.36	493.36
503.20	478.03	477.90	510.70	484.99	485.56	518.00	493.73	493.59
503.30	478.16	478.00	510.80	485.37	485.66	518.10	493.81	493.77
503.40	478.24	478.10	510.90	485.60	485.84	518.20	494.03	493.88
503.50	478.27	478.20	511.00	485.65	485.98	518.30	494.21	493.99
503.60	478.32	478.31	511.10	485.75	486.17	518.40	494.25	494.10
503.70	478.37	478.41	511.40	485.98	486.29	518.50	494.41	494.21
504.00	478.52	478.54	511.50	486.17	486.40	518.60	494.62	494.36
504.10	478.83	478.82	511.60	486.21	486.51	518.90	494.71	494.63
504.20	478.91	478.92	511.70	486.42	486.61	519.00	494.82	494.74
504.30	479.01	479.02	511.80	486.60	486.72	519.10	494.93	494.85
504.40	479.07	479.13	511.90	486.66	486.83	519.20	495.12	494.96
504.50	479.15	479.23	512.00	486.72	487.01	519.30	495.39	495.07
504.60	479.23	479.33	512.10	486.77	487.24	519.40	495.52	495.17
504.90	479.31	479.50	512.30	486.83	487.35	519.50	495.62	495.28
505.00	479.39	479.74	512.40	486.89	487.46	519.80	495.69	495.58
505.10	479.63	479.84	512.50	486.99	487.57	519.90	495.77	495.70
505.20	479.88	479.94	512.60	487.35	487.67	520.00	495.81	495.81
505.30	480.06	480.05	512.70	487.54	487.78	520.10	495.92	495.92
505.40	480.14	480.15	512.80	487.59	488.07	520.20	496.11	496.03
505.50	480.24	480.25	512.90	487.67	488.20	520.30	496.16	496.14
505.80	480.28	480.36	513.00	487.75	488.31	520.40	496.23	496.34
505.90	480.32	480.52	513.30	488.25	488.42	520.50	496.37	496.56
506.00	480.34	480.66	513.40	488.42	488.52	520.70	496.58	496.67
506.10	480.61	480.77	513.50	488.50	488.63	520.80	496.74	496.78
506.20	480.78	480.87	513.60	488.75	488.74	520.90	496.78	496.88
506.30	480.84	480.98	513.70	489.14	488.90	521.00	496.92	496.99
506.40	480.88	481.08	513.80	489.23	489.06	521.10	497.19	497.11
506.50	480.92	481.18	513.90	489.30	489.17	521.20	497.41	497.41
506.80	480.97	481.29	514.20	489.46	489.28	521.30	497.48	497.52
506.90	481.06	481.58	514.30	489.56	489.38	521.40	497.60	497.63
507.00	481.19	481.70	514.40	489.64	489.49	521.70	497.72	497.74

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
521.80	497.83	497.85	529.10	506.19	506.28	536.70	514.59	514.64
521.90	497.89	497.96	529.20	506.26	506.39	536.80	514.65	514.76
522.00	498.07	498.07	529.30	506.37	506.50	536.90	514.78	514.87
522.10	498.43	498.33	529.40	506.84	506.81	537.00	515.02	515.06
522.20	498.50	498.49	529.50	507.07	506.92	537.10	515.12	515.20
522.30	498.55	498.60	529.60	507.11	507.04	537.20	515.18	515.31
522.60	498.61	498.70	529.70	507.16	507.15	537.50	515.27	515.42
522.70	498.67	498.81	529.80	507.22	507.26	537.60	515.39	515.54
522.80	498.70	498.92	530.10	507.31	507.37	537.70	515.47	515.65
522.90	498.83	499.10	530.20	507.50	507.65	537.80	515.71	515.76
523.00	498.98	499.34	530.30	507.86	507.80	537.90	516.22	516.03
523.10	499.20	499.45	530.40	508.05	507.91	538.00	516.30	516.19
523.20	499.34	499.56	530.50	508.10	508.02	538.10	516.37	516.30
523.30	499.43	499.67	530.60	508.15	508.13	538.20	516.45	516.41
523.50	499.51	499.78	530.70	508.22	508.24	538.50	516.58	516.53
523.60	499.56	499.89	531.00	508.43	508.47	538.60	516.86	516.64
523.70	499.61	500.20	531.10	508.62	508.67	538.70	517.21	516.86
523.80	499.82	500.31	531.20	508.65	508.78	538.80	517.39	517.07
523.90	500.21	500.42	531.30	508.83	508.89	538.90	517.42	517.18
524.00	500.26	500.53	531.40	509.06	509.01	539.00	517.48	517.29
524.10	500.30	500.64	531.50	509.11	509.12	539.10	517.58	517.41
524.20	500.35	500.75	531.60	509.20	509.23	539.40	517.86	517.52
524.50	500.45	500.86	531.90	509.34	509.39	539.50	518.01	517.63
524.60	500.66	501.11	532.00	509.51	509.56	539.60	518.11	517.79
524.70	500.99	501.28	532.10	509.58	509.67	539.70	518.32	517.96
524.80	501.42	501.39	532.20	509.70	509.78	539.80	518.48	518.07
524.90	501.55	501.50	532.30	509.82	509.89	539.90	518.58	518.18
525.00	501.64	501.61	532.40	509.88	510.01	540.00	518.81	518.29
525.10	501.71	501.72	532.50	509.91	510.12	540.30	518.96	518.41
525.40	501.80	501.90	532.60	509.94	510.30	540.40	519.04	518.52
525.50	502.04	502.14	532.90	510.06	510.55	540.50	519.08	518.69
525.60	502.13	502.25	533.00	510.16	510.66	540.60	519.22	518.94
525.70	502.29	502.36	533.10	510.63	510.77	540.70	519.46	519.06
525.80	502.50	502.47	533.20	510.85	510.88	540.80	519.71	519.17
525.90	502.58	502.58	533.30	510.92	511.00	540.90	519.81	519.28
526.00	502.64	502.70	533.40	510.99	511.13	541.00	519.89	519.39
526.10	502.68	503.01	533.50	511.04	511.42	541.30	520.07	519.51
526.30	502.92	503.12	533.80	511.18	511.54	541.40	520.20	519.81
526.40	503.07	503.23	533.90	511.44	511.65	541.50	520.39	519.93
526.50	503.15	503.34	534.00	511.51	511.76	541.60	520.61	520.04
526.60	503.36	503.45	534.10	511.68	511.88	541.70	520.68	520.15
526.70	503.48	503.56	534.20	511.84	511.99	541.80	520.72	520.26
526.80	503.54	503.67	534.30	511.91	512.10	541.90	520.76	520.37
526.90	503.64	503.95	534.40	512.03	512.32	542.20	520.84	520.48
527.00	503.78	504.09	534.70	512.31	512.43	542.30	520.93	520.69
527.30	504.07	504.20	534.80	512.44	512.54	542.40	520.97	520.81
527.40	504.13	504.32	534.90	512.56	512.66	542.50	521.14	520.92
527.50	504.35	504.43	535.00	512.74	512.77	542.60	521.37	521.03
527.60	504.77	504.54	535.10	512.97	512.88	542.70	521.55	521.14
527.70	504.92	504.75	535.20	513.30	513.00	542.80	521.70	521.25
527.80	504.98	504.96	535.30	513.40	513.31	543.10	521.75	521.36
527.90	505.04	505.07	535.40	513.46	513.42	543.20	521.86	521.63
528.20	505.15	505.18	535.70	513.57	513.54	543.30	521.92	521.79
528.30	505.26	505.29	535.80	513.65	513.65	543.40	522.10	521.90
528.40	505.30	505.41	535.90	513.81	513.76	543.50	522.23	522.01
528.50	505.48	505.55	536.00	514.20	513.88	543.60	522.29	522.12
528.60	505.87	505.83	536.10	514.27	514.17	543.70	522.51	522.23
528.70	505.96	505.94	536.20	514.31	514.30	543.80	522.61	522.42
528.80	506.03	506.05	536.30	514.37	514.42	544.10	522.71	522.65
528.90	506.09	506.16	536.60	514.49	514.53	544.20	522.82	522.76

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
544.30	523.02	522.87	551.70	530.62	531.06	559.00	539.59	539.57
544.40	523.20	522.98	551.80	531.17	531.17	559.10	539.66	539.68
544.50	523.26	523.10	551.90	531.46	531.28	559.20	539.69	539.79
544.60	523.32	523.21	552.00	531.57	531.40	559.30	539.87	539.91
544.70	523.42	523.33	552.10	531.76	531.51	559.40	540.30	540.05
545.00	523.56	523.53	552.20	531.89	531.66	559.50	540.37	540.33
545.10	523.62	523.64	552.40	531.97	531.93	559.60	540.42	540.44
545.20	523.68	523.75	552.50	532.04	532.05	559.90	540.55	540.55
545.30	523.80	523.86	552.60	532.08	532.16	560.00	540.68	540.66
545.40	523.98	523.97	552.70	532.30	532.27	560.10	540.71	540.77
545.50	524.08	524.08	552.80	532.58	532.38	560.20	540.86	540.88
545.60	524.11	524.19	552.90	532.75	532.50	560.30	541.07	540.99
545.90	524.18	524.50	553.00	532.93	532.62	560.40	541.19	541.31
546.00	524.39	524.61	553.10	533.02	532.92	560.50	541.33	541.42
546.10	524.51	524.72	553.40	533.13	533.03	560.60	541.38	541.53
546.20	524.72	524.83	553.50	533.22	533.15	560.80	541.47	541.64
546.30	524.92	524.95	553.60	533.30	533.26	560.90	541.57	541.75
546.40	524.97	525.06	553.70	533.55	533.37	561.00	541.60	541.86
546.50	525.04	525.30	553.80	533.99	533.48	561.10	541.74	542.12
546.60	525.10	525.48	553.90	534.08	533.79	561.20	541.97	542.28
546.80	525.35	525.59	554.00	534.17	533.91	561.30	542.18	542.40
546.90	525.46	525.70	554.30	534.38	534.02	561.40	542.26	542.51
547.00	525.55	525.81	554.40	534.62	534.13	561.50	542.30	542.62
547.10	525.83	525.92	554.50	534.74	534.24	561.80	542.40	542.73
547.20	526.03	526.03	554.60	534.98	534.36	561.90	542.57	542.93
547.30	526.12	526.19	554.70	535.12	534.61	562.00	542.84	543.15
547.40	526.24	526.35	554.80	535.21	534.78	562.10	543.20	543.27
547.50	526.30	526.47	554.90	535.30	534.89	562.20	543.30	543.38
547.80	526.34	526.58	555.00	535.36	535.01	562.30	543.38	543.49
547.90	526.38	526.69	555.20	535.54	535.12	562.40	543.45	543.60
548.00	526.41	526.80	555.30	535.82	535.23	562.70	543.53	543.71
548.10	526.56	526.91	555.40	535.89	535.34	562.80	543.60	543.87
548.20	526.72	527.07	555.50	536.02	535.56	562.90	543.65	544.14
548.30	526.77	527.33	555.60	536.19	535.77	563.00	544.11	544.25
548.40	526.81	527.44	555.70	536.24	535.88	563.10	544.31	544.36
548.70	526.89	527.56	555.80	536.29	535.99	563.20	544.40	544.47
548.80	526.96	527.67	555.90	536.39	536.10	563.30	544.51	544.59
548.90	527.01	527.78	556.20	536.60	536.21	563.40	544.58	544.70
549.00	527.35	527.89	556.30	536.69	536.37	563.60	544.65	545.01
549.10	527.58	528.20	556.40	536.74	536.64	563.70	544.76	545.12
549.20	527.68	528.31	556.50	536.90	536.75	563.80	544.90	545.24
549.30	527.83	528.43	556.60	537.13	536.86	563.90	545.08	545.35
549.40	528.15	528.54	556.70	537.23	536.97	564.00	545.27	545.46
549.60	528.29	528.65	556.80	537.39	537.08	564.10	545.36	545.57
549.70	528.44	528.76	557.10	537.53	537.19	564.20	545.39	545.86
549.80	528.53	528.87	557.20	537.62	537.50	564.30	545.41	546.00
549.90	528.66	529.07	557.30	537.73	537.62	564.60	545.46	546.11
550.00	528.90	529.20	557.40	537.92	537.73	564.70	545.58	546.23
550.10	529.06	529.31	557.50	538.19	537.84	564.80	546.11	546.34
550.20	529.17	529.42	557.60	538.49	537.95	564.90	546.39	546.45
550.30	529.22	529.53	557.70	538.59	538.06	565.00	546.48	546.57
550.60	529.32	529.65	557.80	538.66	538.17	565.10	546.69	546.76
550.70	529.42	529.76	558.00	538.71	538.45	565.20	546.83	546.89
550.80	529.48	530.01	558.10	538.78	538.59	565.50	546.96	547.01
550.90	529.76	530.18	558.20	538.86	538.71	565.60	547.08	547.12
551.00	530.21	530.30	558.30	539.00	538.82	565.70	547.13	547.23
551.10	530.30	530.41	558.40	539.25	538.93	565.80	547.24	547.35
551.20	530.38	530.52	558.50	539.39	539.04	565.90	547.37	547.46
551.50	530.47	530.63	558.60	539.44	539.25	566.00	547.47	547.73
551.60	530.55	530.84	558.70	539.50	539.46	566.10	547.55	547.89



PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
566.20	547.69	548.00	573.90	556.46	556.32	581.50	564.25	564.10
566.40	547.84	548.12	574.00	556.60	556.43	581.60	564.61	564.21
566.50	547.95	548.23	574.10	556.67	556.54	581.70	564.76	564.33
566.60	548.02	548.35	574.20	556.89	556.65	581.80	564.81	564.62
566.70	548.26	548.58	574.30	557.21	556.76	581.90	564.87	564.72
566.80	548.79	548.77	574.40	557.31	557.02	582.00	564.98	564.83
566.90	548.85	548.89	574.50	557.43	557.18	582.30	565.07	564.93
567.00	548.88	549.00	574.80	557.52	557.29	582.40	565.11	565.04
567.10	548.95	549.12	574.90	557.62	557.41	582.50	565.14	565.14
567.40	549.06	549.23	575.00	557.67	557.52	582.60	565.46	565.34
567.50	549.18	549.35	575.10	558.01	557.63	582.70	565.65	565.55
567.60	549.51	549.52	575.20	558.28	557.74	582.80	565.74	565.66
567.70	549.80	549.68	575.30	558.34	557.89	582.90	565.77	565.76
567.80	549.91	549.79	575.40	558.44	558.06	583.20	565.81	565.87
567.90	550.00	549.91	575.50	558.49	558.17	583.30	565.86	565.97
568.00	550.06	550.02	575.80	558.54	558.28	583.40	565.95	566.08
568.30	550.14	550.13	575.90	558.58	558.38	583.50	566.09	566.18
568.40	550.25	550.25	576.00	559.02	558.49	583.60	566.32	566.38
568.50	550.41	550.49	576.10	559.27	558.60	583.70	566.41	566.49
568.60	550.75	550.68	576.20	559.34	558.74	583.80	566.49	566.60
568.70	550.99	550.79	576.30	559.38	559.02	583.90	566.56	566.70
568.80	551.09	550.91	576.40	559.42	559.13	584.10	566.64	566.81
568.90	551.17	551.02	576.70	559.48	559.24	584.20	566.70	566.91
569.20	551.50	551.14	576.80	559.58	559.35	584.30	566.76	567.02
569.30	551.60	551.35	576.90	559.91	559.46	584.40	566.92	567.17
569.40	551.66	551.56	577.00	560.11	559.57	584.50	567.10	567.43
569.50	551.97	551.68	577.10	560.26	559.82	584.60	567.22	567.54
569.60	552.36	551.79	577.20	560.37	559.98	584.70	567.38	567.64
569.70	552.43	551.91	577.30	560.49	560.09	584.80	567.43	567.75
569.80	552.48	552.02	577.60	560.60	560.20	585.10	567.52	567.85
569.90	552.52	552.14	577.70	560.83	560.31	585.30	567.62	567.96
570.20	552.61	552.30	577.80	560.91	560.41	585.40	567.77	568.19
570.30	552.75	552.46	577.90	561.06	560.52	585.50	568.02	568.37
570.40	552.94	552.58	578.00	561.23	560.66	585.60	568.28	568.47
570.50	553.10	552.69	578.10	561.32	560.84	585.70	568.34	568.58
570.60	553.19	552.81	578.20	561.42	560.94	586.00	568.43	568.68
570.70	553.30	552.92	578.30	561.51	561.05	586.10	568.50	568.79
570.80	553.43	553.03	578.60	561.84	561.16	586.20	568.56	568.89
571.10	553.50	553.24	578.70	561.93	561.27	586.30	568.76	569.20
571.20	553.58	553.46	578.80	562.11	561.37	586.40	569.10	569.31
571.30	553.68	553.57	578.90	562.37	561.48	586.50	569.21	569.41
571.40	553.86	553.69	579.00	562.59	561.76	586.60	569.28	569.52
571.50	554.00	553.80	579.10	562.74	561.89	586.70	569.38	569.62
571.60	554.09	553.91	579.20	562.80	562.00	586.90	569.50	569.73
571.70	554.26	554.07	579.50	562.87	562.11	587.00	569.61	569.84
572.00	554.38	554.34	579.60	562.95	562.21	587.10	569.66	570.03
572.10	554.54	554.45	579.70	563.00	562.32	587.20	569.83	570.25
572.20	554.65	554.56	579.80	563.11	562.48	587.30	570.22	570.35
572.30	554.88	554.68	579.90	563.25	562.73	587.40	570.26	570.46
572.40	555.24	554.79	580.00	563.29	562.84	587.50	570.37	570.57
572.50	555.31	554.90	580.10	563.33	562.94	587.60	570.45	570.67
572.60	555.40	555.03	580.40	563.42	563.05	587.90	570.52	570.78
572.70	555.46	555.23	580.50	563.61	563.16	588.00	570.61	571.06
573.00	555.54	555.34	580.60	563.68	563.26	588.10	570.68	571.19
573.10	555.63	555.45	580.70	563.79	563.37	588.20	570.98	571.30
573.20	555.78	555.56	580.80	563.88	563.55	588.30	571.24	571.41
573.30	555.94	555.67	580.90	563.92	563.68	588.40	571.33	571.51
573.40	556.07	555.78	581.00	563.97	563.78	588.50	571.39	571.62
573.50	556.23	555.90	581.10	564.03	563.89	588.80	571.50	571.78
573.60	556.35	556.21	581.40	564.16	563.99	588.90	571.57	572.03

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
589.00	571.62	572.14	596.30	580.15	580.46	603.70	588.28	588.58
589.10	571.91	572.25	596.40	580.40	580.57	603.80	588.32	588.84
589.20	572.25	572.35	596.50	580.70	580.68	603.90	588.35	588.95
589.30	572.31	572.46	596.60	580.97	580.79	604.00	588.61	589.06
589.40	572.37	572.57	596.70	581.03	580.90	604.10	588.86	589.16
589.50	572.43	572.68	596.80	581.20	581.01	604.20	588.91	589.27
589.70	572.51	572.95	596.90	581.45	581.16	604.30	588.96	589.38
589.80	572.69	573.09	597.20	581.49	581.43	604.40	589.01	589.49
589.90	572.92	573.20	597.30	581.53	581.54	604.70	589.12	589.70
590.00	573.04	573.30	597.40	581.61	581.65	604.80	589.33	589.81
590.10	573.14	573.41	597.50	581.82	581.76	604.90	589.75	589.92
590.20	573.18	573.52	597.60	582.08	581.87	605.00	589.96	590.03
590.30	573.31	573.68	597.70	582.34	581.98	605.10	590.04	590.14
590.40	573.43	573.94	597.80	582.41	582.26	605.20	590.08	590.25
590.70	573.49	574.04	597.90	582.46	582.40	605.30	590.14	590.36
590.80	573.54	574.15	598.10	582.52	582.51	605.60	590.23	590.61
590.90	573.74	574.26	598.20	582.64	582.62	605.70	590.32	590.78
591.00	574.10	574.37	598.30	582.76	582.73	605.80	590.37	590.89
591.10	574.35	574.48	598.40	582.94	582.83	605.90	590.66	591.00
591.20	574.40	574.75	598.50	583.27	583.03	606.00	590.89	591.11
591.30	574.45	574.89	598.60	583.34	583.25	606.10	590.97	591.22
591.60	574.55	575.00	598.70	583.42	583.36	606.20	591.07	591.38
591.70	574.74	575.11	599.10	583.50	583.47	606.50	591.27	591.64
591.80	574.80	575.22	599.20	583.65	583.58	606.60	591.69	591.75
591.90	575.00	575.33	599.30	583.87	583.69	606.70	591.89	591.86
592.00	575.19	575.43	599.40	584.13	583.80	606.80	592.09	591.97
592.10	575.24	575.63	599.50	584.16	583.92	606.90	592.26	592.08
592.20	575.35	575.85	599.60	584.18	584.12	607.00	592.34	592.18
592.30	575.40	575.96	599.70	584.22	584.23	607.10	592.44	592.29
592.50	575.58	576.07	600.00	584.29	584.34	607.20	592.55	592.50
592.60	575.81	576.18	600.10	584.42	584.45	607.50	592.67	592.61
592.70	575.86	576.29	600.20	584.56	584.56	607.60	592.78	592.72
592.80	576.17	576.40	600.30	584.74	584.67	607.70	592.99	592.83
592.90	576.41	576.71	600.40	585.11	584.78	607.80	593.15	592.94
593.00	576.72	576.81	600.50	585.26	585.06	607.90	593.40	593.05
593.10	576.83	576.92	600.60	585.36	585.29	608.00	593.56	593.16
593.20	576.98	577.03	600.70	585.44	585.40	608.10	593.58	593.41
593.50	577.09	577.14	600.90	585.54	585.51	608.40	593.63	593.58
593.60	577.18	577.25	601.00	585.64	585.62	608.50	593.76	593.69
593.70	577.22	577.48	601.10	585.67	585.80	608.60	593.81	593.80
593.80	577.67	577.67	601.20	585.91	586.04	608.70	594.02	593.91
593.90	577.96	577.78	601.30	586.06	586.15	608.80	594.40	594.02
594.00	578.05	577.89	601.40	586.11	586.26	608.90	594.47	594.19
594.10	578.08	578.00	601.50	586.15	586.37	609.00	594.54	594.44
594.40	578.13	578.11	601.60	586.22	586.48	609.30	594.68	594.55
594.50	578.23	578.22	601.90	586.33	586.59	609.40	594.77	594.66
594.60	578.37	578.38	602.00	586.58	586.70	609.50	594.83	594.77
594.70	578.71	578.64	602.10	586.88	586.91	609.60	595.07	594.88
594.80	578.85	578.75	602.20	586.99	587.02	609.70	595.29	594.99
594.90	578.89	578.86	602.30	587.08	587.12	609.80	595.35	595.09
595.00	578.94	578.97	602.40	587.21	587.23	609.90	595.46	595.30
595.10	578.99	579.07	602.50	587.31	587.34	610.00	595.53	595.41
595.30	579.08	579.18	602.80	587.52	587.45	610.30	595.65	595.52
595.40	579.17	579.48	602.90	587.90	587.56	610.40	595.72	595.63
595.50	579.27	579.60	603.00	587.96	587.81	610.50	595.86	595.74
595.60	579.71	579.71	603.10	588.08	587.98	610.60	595.98	595.85
595.70	579.91	579.82	603.20	588.16	588.09	610.70	596.08	595.96
595.80	579.97	579.93	603.30	588.18	588.20	610.80	596.36	596.21
595.90	580.01	580.04	603.40	588.21	588.31	610.90	596.38	596.38
596.00	580.05	580.26	603.50	588.24	588.42	611.20	596.42	596.49

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
611.30	596.48	596.60	618.90	604.81	604.65	626.30	612.64	612.63
611.40	596.54	596.71	619.00	605.05	604.79	626.40	612.74	612.73
611.50	596.75	596.81	619.10	605.10	604.90	626.50	613.11	612.91
611.60	597.05	596.97	619.20	605.15	605.00	626.60	613.20	613.14
611.70	597.25	597.23	619.30	605.18	605.11	626.70	613.26	613.25
611.80	597.36	597.34	619.60	605.22	605.22	626.80	613.31	613.35
612.10	597.42	597.45	619.70	605.27	605.37	627.00	613.40	613.46
612.20	597.51	597.56	619.80	605.40	605.63	627.20	613.48	613.56
612.30	597.61	597.67	619.90	605.71	605.74	627.30	613.62	613.67
612.40	597.76	597.78	620.00	605.94	605.84	627.40	613.76	613.92
612.50	597.89	597.89	620.10	606.02	605.95	627.50	613.81	614.08
612.60	597.92	598.09	620.20	606.16	606.06	627.60	613.99	614.18
612.70	597.99	598.20	620.50	606.40	606.16	627.70	614.07	614.29
612.80	598.09	598.31	620.60	606.54	606.40	628.00	614.12	614.39
613.10	598.37	598.42	620.70	606.59	606.57	628.10	614.18	614.50
613.20	598.53	598.53	620.80	606.74	606.68	628.20	614.29	614.61
613.30	598.98	598.64	620.90	606.99	606.79	628.30	614.46	614.91
613.40	599.22	598.89	621.00	607.10	606.89	628.40	614.72	615.02
613.50	599.29	599.16	621.10	607.15	607.00	628.50	614.91	615.12
613.60	599.36	599.27	621.20	607.19	607.10	628.60	614.97	615.23
613.70	599.40	599.37	621.40	607.33	607.23	628.90	615.01	615.33
614.00	599.47	599.48	621.50	607.57	607.52	629.10	615.05	615.44
614.10	599.57	599.59	621.60	607.64	607.62	629.20	615.18	615.54
614.20	599.64	599.70	621.70	607.88	607.73	629.30	615.31	615.74
614.30	600.01	600.01	621.80	608.07	607.83	629.40	615.37	615.95
614.40	600.14	600.12	621.90	608.28	607.94	629.50	615.40	616.06
614.50	600.20	600.22	622.00	608.42	608.05	629.80	615.51	616.16
614.60	600.35	600.33	622.10	608.46	608.25	629.90	615.84	616.27
614.90	600.44	600.44	622.40	608.51	608.46	630.00	616.02	616.38
615.00	600.56	600.55	622.50	608.58	608.56	630.10	616.19	616.48
615.10	600.63	600.66	622.60	608.69	608.67	630.20	616.31	616.76
615.20	600.75	600.83	622.70	608.88	608.77	630.40	616.38	616.89
615.30	601.06	600.97	622.80	609.13	608.88	630.50	616.49	617.00
615.40	601.11	601.08	622.90	609.22	608.98	630.80	616.86	617.10
615.50	601.16	601.19	623.00	609.31	609.27	630.90	617.06	617.21
615.60	601.26	601.30	623.30	609.39	609.40	631.00	617.14	617.37
615.90	601.50	601.41	623.40	609.48	609.50	631.10	617.27	617.72
616.00	601.76	601.51	623.50	609.54	609.61	631.20	617.72	617.83
616.10	602.03	601.67	623.60	609.79	609.71	631.30	617.82	617.93
616.20	602.27	601.93	623.70	610.03	609.82	631.40	617.92	618.04
616.30	602.35	602.04	623.80	610.15	609.92	631.70	618.00	618.15
616.40	602.43	602.15	623.90	610.27	610.08	631.80	618.15	618.25
616.50	602.65	602.25	624.00	610.31	610.33	631.90	618.30	618.36
616.80	602.83	602.36	624.20	610.40	610.44	632.00	618.66	618.53
616.90	602.90	602.47	624.30	610.51	610.54	632.10	618.86	618.67
617.00	602.92	602.73	624.40	610.56	610.65	632.20	618.93	618.78
617.10	603.03	602.88	624.50	610.74	610.75	632.30	618.97	618.88
617.20	603.20	602.99	624.60	610.91	610.86	632.40	618.99	618.99
617.30	603.26	603.10	624.70	610.99	611.09	632.60	619.02	619.10
617.70	603.34	603.21	624.80	611.16	611.27	632.70	619.05	619.20
617.80	603.40	603.31	624.90	611.29	611.38	632.80	619.11	619.33
617.90	603.58	603.42	625.20	611.39	611.48	632.90	619.28	619.62
618.00	603.93	603.56	625.30	611.53	611.59	633.00	619.65	619.72
618.10	604.11	603.73	625.40	611.64	611.69	633.10	619.70	619.83
618.20	604.17	603.84	625.50	611.78	611.80	633.20	619.74	619.94
618.30	604.23	603.95	625.60	612.26	612.10	633.30	619.78	620.04
618.40	604.27	604.06	625.70	612.38	612.21	633.60	619.86	620.15
618.60	604.30	604.16	625.80	612.44	612.31	633.70	620.00	620.37
618.70	604.36	604.27	626.10	612.50	612.42	633.80	620.29	620.56
618.80	604.45	604.38	626.20	612.58	612.52	633.90	620.60	620.67

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
634.00	620.67	620.78	641.50	629.28	628.97	649.50	636.83	637.14
634.10	620.74	620.89	641.60	629.36	629.14	649.60	636.97	637.35
634.20	620.78	620.99	641.70	629.48	629.25	649.70	637.46	637.46
634.50	620.82	621.10	642.00	629.77	629.36	649.80	637.60	637.57
634.60	620.86	621.22	642.10	629.96	629.47	650.00	637.64	637.68
634.70	620.95	621.42	642.20	630.10	629.75	650.10	637.74	637.78
634.80	621.06	621.52	642.30	630.24	629.89	650.40	637.89	637.89
634.90	621.21	621.63	642.40	630.30	630.00	650.50	638.07	638.18
635.00	621.27	621.74	642.50	630.42	630.11	650.60	638.47	638.30
635.10	621.37	621.85	642.60	630.64	630.25	650.70	638.69	638.41
635.20	621.46	621.95	642.90	630.85	630.43	650.80	638.74	638.51
635.40	621.56	622.06	643.00	630.99	630.63	650.90	638.77	638.62
635.50	621.63	622.31	643.10	631.05	630.85	651.00	638.81	638.73
635.60	621.69	622.48	643.20	631.10	630.96	651.30	638.87	638.83
635.70	621.95	622.59	643.30	631.27	631.07	651.40	639.26	639.02
635.80	622.47	622.69	643.40	631.40	631.18	651.60	639.37	639.24
635.90	622.52	622.80	643.50	631.74	631.29	651.70	639.58	639.35
636.00	622.57	622.91	643.80	631.91	631.40	651.80	639.65	639.46
636.10	622.67	623.06	643.90	632.00	631.71	652.20	639.70	639.56
636.40	622.74	623.33	644.10	632.19	631.82	652.30	639.75	639.67
636.50	622.81	623.44	644.20	632.36	631.93	652.50	640.13	639.77
636.60	623.18	623.55	644.30	632.39	632.04	652.60	640.46	640.04
636.70	623.48	623.66	644.40	632.46	632.15	652.70	640.55	640.18
636.80	623.51	623.76	644.50	632.56	632.25	652.80	640.60	640.29
636.90	623.53	623.87	644.80	632.64	632.36	652.90	640.64	640.40
637.00	623.55	623.98	644.90	632.74	632.55	653.20	640.90	640.50
637.30	623.64	624.19	645.00	632.88	632.68	653.30	641.02	640.61
637.40	623.75	624.30	645.10	633.02	632.79	653.40	641.12	640.73
637.50	623.82	624.41	645.20	633.07	632.90	653.50	641.21	641.02
637.60	624.21	624.52	645.40	633.11	633.01	653.60	641.24	641.12
637.70	624.47	624.63	645.70	633.16	633.12	653.70	641.28	641.23
637.80	624.50	624.74	645.80	633.24	633.22	653.80	641.32	641.33
637.90	624.54	624.85	645.90	633.46	633.40	654.10	641.40	641.43
638.20	624.67	625.08	646.00	633.86	633.64	654.20	641.51	641.54
638.30	624.85	625.27	646.10	633.95	633.75	654.30	641.69	641.64
638.40	624.88	625.38	646.20	634.00	633.86	654.40	642.10	641.84
638.50	625.29	625.49	646.30	634.06	633.97	654.50	642.38	642.05
638.60	625.45	625.60	646.60	634.15	634.07	654.60	642.52	642.16
638.70	625.53	625.71	646.70	634.29	634.18	654.70	642.78	642.26
638.80	625.74	625.86	646.80	634.43	634.47	655.00	643.01	642.36
638.90	625.87	626.13	646.90	634.63	634.60	655.10	643.16	642.47
639.20	626.17	626.24	647.00	634.88	634.71	655.20	643.26	642.57
639.30	626.33	626.35	647.10	634.91	634.81	655.30	643.39	642.82
639.40	626.64	626.46	647.20	634.95	634.92	655.40	643.54	642.98
639.50	626.79	626.57	647.30	634.99	635.03	655.60	643.63	643.08
639.60	626.94	626.68	647.60	635.03	635.14	655.70	643.71	643.19
639.70	627.06	626.79	647.70	635.16	635.29	655.90	643.81	643.29
639.80	627.25	627.00	647.80	635.51	635.45	656.10	643.84	643.39
640.10	627.35	627.21	647.90	635.65	635.56	656.20	644.29	643.49
640.20	627.45	627.32	648.00	635.69	635.67	656.40	644.48	643.79
640.30	627.49	627.43	648.10	635.75	635.78	656.50	644.84	643.90
640.40	627.68	627.54	648.20	635.86	635.88	656.90	644.95	644.10
640.50	628.10	627.65	648.50	635.94	635.99	657.00	645.08	644.21
640.60	628.12	627.89	648.60	636.00	636.10	657.20	645.31	644.31
640.70	628.18	628.07	648.70	636.14	636.41	657.30	645.74	644.41
641.00	628.27	628.18	648.80	636.51	636.51	657.50	645.81	644.54
641.10	628.32	628.29	648.90	636.61	636.62	657.80	645.86	644.81
641.20	628.36	628.40	649.00	636.64	636.73	657.90	645.90	644.92
641.30	628.87	628.51	649.10	636.70	636.83	658.00	645.92	645.02
641.40	629.24	628.67	649.40	636.76	636.94	658.10	646.06	645.12

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
658.20	646.18	645.24	666.30	653.53	653.45	675.20	661.16	661.58
658.40	646.52	645.47	666.40	653.57	653.55	675.30	661.22	661.68
658.50	646.65	645.72	666.50	653.79	653.65	675.50	661.36	661.78
658.70	646.78	645.83	666.60	654.18	653.74	675.60	661.51	661.88
658.80	646.86	645.93	666.80	654.27	653.92	675.80	661.65	661.98
658.90	646.91	646.03	666.90	654.33	654.14	675.90	661.72	662.08
659.00	647.06	646.13	667.10	654.45	654.23	676.00	661.74	662.40
659.20	647.14	646.23	667.20	654.63	654.33	676.10	661.76	662.57
659.30	647.16	646.39	667.30	654.67	654.43	676.20	661.79	662.67
659.40	647.18	646.63	667.40	654.73	654.52	676.50	661.84	662.77
659.70	647.22	646.73	667.50	654.96	654.62	676.60	661.89	662.87
659.80	647.28	646.83	667.70	655.08	654.76	676.70	662.09	662.97
659.90	647.58	646.93	668.10	655.14	655.02	676.90	662.68	663.07
660.00	647.79	647.03	668.30	655.21	655.11	677.40	662.72	663.30
660.10	647.91	647.13	668.40	655.41	655.21	677.50	662.79	663.47
660.20	647.94	647.23	668.60	655.61	655.31	677.60	662.96	663.56
660.30	647.99	647.40	668.70	655.64	655.40	677.70	663.09	663.66
660.60	648.04	647.63	669.00	655.69	655.60	677.90	663.46	663.76
660.70	648.10	647.73	669.20	655.82	655.70	678.00	663.56	663.93
660.80	648.28	647.83	669.30	656.13	655.89	678.30	663.60	664.06
660.90	648.63	647.93	669.40	656.36	656.08	678.40	663.66	664.22
661.00	648.79	648.03	669.60	656.42	656.19	678.60	663.75	664.36
661.10	648.87	648.13	669.70	656.46	656.37	678.70	663.84	664.46
661.20	648.94	648.29	669.90	656.49	656.48	678.80	664.00	664.56
661.30	649.05	648.53	670.20	656.84	656.81	679.00	664.11	664.66
661.50	649.41	648.63	670.50	657.11	656.97	679.30	664.27	664.76
661.60	649.56	648.73	670.60	657.22	657.14	679.50	664.52	664.86
661.70	649.60	648.83	670.90	657.28	657.27	679.70	664.60	664.96
661.80	649.71	648.92	671.00	657.30	657.43	679.90	664.63	665.19
661.90	649.88	649.02	671.10	657.49	657.68	680.30	664.67	665.36
662.00	649.95	649.16	671.30	657.88	657.86	680.40	664.69	665.46
662.10	650.00	649.42	671.40	657.91	657.96	680.50	664.77	665.56
662.50	650.09	649.52	671.50	657.95	658.05	680.70	664.82	665.73
662.60	650.39	649.62	671.80	658.02	658.15	680.80	664.88	666.06
662.70	650.44	649.72	671.90	658.15	658.29	681.10	665.07	666.26
662.80	650.58	649.83	672.00	658.19	658.44	681.20	665.31	666.37
662.90	650.69	650.01	672.10	658.30	658.58	681.30	665.35	666.47
663.00	650.80	650.13	672.20	658.45	658.74	681.40	665.61	666.57
663.10	650.87	650.41	672.30	658.48	658.83	681.50	665.85	666.74
663.40	650.89	650.51	672.40	658.50	658.93	681.70	666.21	666.87
663.50	650.93	650.60	672.50	658.54	659.06	682.10	666.34	667.04
663.60	650.99	650.70	672.70	658.62	659.23	682.20	666.47	667.17
663.70	651.32	650.80	672.80	658.79	659.32	682.30	666.69	667.27
663.80	651.40	650.90	672.90	658.93	659.46	682.40	667.26	667.37
664.00	651.46	651.00	673.00	659.39	659.72	682.50	667.30	667.48
664.10	651.60	651.28	673.10	659.77	659.82	682.70	667.47	667.65
664.30	651.69	651.39	673.20	659.79	659.91	683.00	667.60	668.01
664.40	651.79	651.58	673.30	659.83	660.01	683.10	668.06	668.26
664.50	651.94	651.69	673.40	659.87	660.11	683.30	668.26	668.38
664.60	652.27	651.78	673.70	659.90	660.21	683.40	668.35	668.57
664.70	652.34	652.12	673.80	659.95	660.31	683.50	668.39	668.69
664.80	652.39	652.28	673.90	660.25	660.60	683.60	668.54	668.96
664.90	652.52	652.45	674.10	660.51	660.70	684.00	668.64	669.18
665.00	652.58	652.57	674.20	660.61	660.80	684.20	669.28	669.29
665.30	652.66	652.67	674.30	660.65	660.89	684.30	669.45	669.39
665.40	652.78	652.77	674.60	660.67	660.99	684.50	669.51	669.59
665.50	652.99	652.86	674.70	660.70	661.09	684.90	669.64	669.70
665.60	653.37	653.08	674.90	660.79	661.19	685.10	670.21	669.90
665.80	653.48	653.26	675.00	660.92	661.29	685.80	670.55	670.20
666.20	653.51	653.36	675.10	661.00	661.47	685.90	670.74	670.50

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
686.00	670.90	670.62	697.50	679.69	680.11	709.40	691.06	691.73
686.10	670.97	670.91	697.90	679.80	680.36	709.70	691.22	691.89
686.20	671.02	671.01	698.20	680.33	680.46	710.10	691.34	692.17
686.40	671.03	671.13	698.50	680.42	680.64	710.20	691.41	692.52
686.70	671.07	671.32	698.60	680.45	680.78	710.30	691.45	692.86
686.80	671.32	671.42	698.80	680.61	681.05	710.50	691.65	693.00
686.90	671.39	671.56	699.10	680.79	681.19	711.00	691.91	693.25
687.00	671.78	671.82	699.20	681.30	681.30	711.10	692.77	693.59
687.20	671.96	671.93	699.30	681.34	681.40	711.20	692.91	693.98
687.30	671.99	672.03	700.00	681.40	681.52	711.50	693.11	694.26
687.40	672.03	672.13	700.10	681.63	681.77	711.60	693.18	694.37
687.70	672.26	672.24	700.30	681.78	682.13	711.90	693.23	694.49
687.80	672.41	672.34	700.70	682.08	682.23	712.00	693.33	694.72
687.90	672.72	672.44	700.80	682.21	682.34	712.10	694.29	695.24
688.10	672.79	672.59	700.90	682.25	682.45	712.20	694.43	695.54
688.30	672.80	672.75	701.00	682.30	682.61	712.40	695.27	695.90
688.60	672.83	672.85	701.20	682.34	682.89	712.80	695.51	696.07
688.70	672.88	672.95	701.30	682.38	683.07	712.90	695.78	696.26
688.80	672.92	673.06	701.40	682.45	683.26	713.00	695.87	696.50
688.90	673.14	673.16	701.60	682.63	683.39	713.10	696.01	697.01
689.10	673.48	673.27	701.80	682.70	683.49	713.40	696.26	697.16
689.50	673.68	673.37	701.90	682.93	683.61	713.80	696.41	697.35
689.60	673.77	673.62	702.20	683.22	684.02	714.00	697.41	697.46
689.70	673.79	673.78	702.30	683.31	684.22	714.70	698.45	697.81
689.80	673.83	673.88	702.60	683.34	684.36	714.80	698.50	698.18
689.90	673.97	674.07	702.70	683.37	684.65	715.00	698.53	698.51
690.10	674.07	674.19	702.80	683.39	684.99	715.30	698.75	698.66
690.50	674.19	674.29	702.90	683.43	685.48	715.60	699.25	698.93
690.60	674.36	674.58	703.10	684.26	685.86	715.90	699.92	699.16
690.70	674.83	674.70	703.20	684.29	685.97	716.20	700.04	699.28
690.80	674.93	674.90	703.50	684.36	686.08	716.80	700.69	699.97
691.10	674.98	675.01	703.60	684.50	686.19	717.60	700.76	700.12
691.40	675.08	675.11	703.80	685.08	686.40	717.70	700.87	700.42
691.50	675.22	675.21	704.10	685.63	686.71	717.80	701.12	700.75
691.70	675.40	675.34	704.40	685.80	686.82	717.90	701.17	700.86
691.80	675.51	675.52	704.50	685.83	686.93	718.10	701.24	700.98
692.00	675.53	675.66	704.60	685.88	687.08	718.40	701.87	701.20
692.30	675.74	675.83	704.70	686.33	687.25	718.50	701.99	701.32
692.60	675.85	675.94	704.90	686.46	687.36	718.70	702.37	701.47
692.90	675.99	676.04	705.40	686.55	687.62	718.80	702.72	701.70
693.00	676.03	676.15	705.60	686.67	687.78	718.90	703.08	701.87
693.20	676.10	676.35	705.70	686.75	687.89	719.10	703.14	702.16
693.50	676.18	676.56	705.80	686.84	688.11	719.40	703.18	702.31
693.80	676.27	676.66	706.30	686.94	688.35	719.50	703.21	702.62
694.20	676.53	676.83	706.60	687.51	688.63	719.60	703.33	702.74
694.30	676.80	677.25	706.80	687.88	688.74	719.70	703.65	702.86
694.40	677.01	677.47	706.90	688.48	688.85	719.80	704.32	703.05
694.50	677.46	677.58	707.00	688.59	689.03	720.30	704.41	703.19
694.70	677.65	677.68	707.20	688.75	689.40	720.40	704.43	703.51
695.20	677.76	677.88	707.30	688.84	689.59	720.50	704.48	703.65
695.40	678.37	678.00	707.40	688.89	689.70	720.60	704.58	703.94
695.80	678.49	678.30	707.80	689.41	689.81	720.70	705.20	704.29
696.00	678.59	678.41	707.90	689.57	689.95	721.20	705.40	704.48
696.10	678.65	678.61	708.30	689.66	690.25	721.50	705.51	704.60
696.30	678.77	678.72	708.40	689.81	690.55	721.80	705.58	704.73
696.50	678.99	678.85	708.50	690.65	690.66	722.20	705.62	705.08
697.00	679.15	679.09	708.60	690.68	690.78	722.40	705.65	705.51
697.10	679.22	679.37	709.10	690.71	691.07	722.50	705.70	705.67
697.30	679.33	679.58	709.20	690.74	691.40	722.70	705.77	705.79
697.40	679.63	679.79	709.30	690.82	691.53	723.20	706.40	706.32

PISA Score	NoSmooth	S=0.20	PISA Score	NoSmooth	S=0.20
723.60	707.41	706.65	745.80	720.54	729.85
724.00	707.85	706.84	746.50	722.08	730.68
724.30	707.90	706.96	747.60	722.32	731.64
724.60	708.05	707.16	747.70	722.46	731.94
724.70	708.15	707.30	748.50	722.52	732.97
725.00	708.32	707.47	749.50	722.72	733.75
725.20	708.57	707.84	749.80	724.74	734.47
726.00	708.94	708.11	750.50	725.05	735.02
726.20	709.11	708.37	751.10	726.64	735.94
726.90	709.15	708.49	751.30	726.80	736.71
727.00	709.19	708.64	752.00	726.91	737.35
727.20	709.31	709.13	752.60	726.93	738.00
727.40	709.92	709.25	753.40	726.94	738.58
727.80	710.03	709.36	753.90	729.49	739.29
728.00	710.12	709.65	754.10	730.66	740.25
728.30	710.15	710.10	755.10	732.22	740.92
728.70	710.24	710.22	755.30	734.45	741.66
729.00	711.35	710.37	756.00	738.85	741.96
729.80	711.51	710.78	756.20	743.96	743.37
729.90	711.59	711.07	756.70	748.13	743.99
730.60	712.10	711.19	756.80	748.32	744.23
730.80	712.31	711.51	758.20	748.45	744.89
731.60	712.44	711.69	760.50	748.59	745.69
731.80	712.86	711.95	761.60	748.75	746.36
731.90	713.27	712.10	763.50	748.91	747.66
732.70	713.30	712.32	763.60	750.83	748.98
733.00	713.33	712.81	763.80	750.89	750.02
733.60	713.35	712.99	765.20	750.95	751.13
733.80	713.37	713.32	765.30	751.01	751.99
734.30	713.39	713.91	766.00	751.07	753.26
734.60	713.41	714.74	766.30	751.12	754.03
734.70	713.44	715.07	767.00	751.15	755.20
735.50	713.51	715.63	767.80	751.17	756.07
735.80	713.57	716.18	771.90	751.19	756.72
736.40	713.77	717.41	772.50	763.56	758.24
736.70	714.79	717.76	773.70	763.59	761.44
736.80	714.85	717.99	774.40	763.63	763.57
737.40	715.25	718.43	775.50	763.67	764.54
737.70	716.55	718.71	777.50	763.72	765.56
738.10	716.75	718.89	779.10	764.01	766.44
738.40	717.01	719.34	788.90	774.08	767.98
738.70	717.18	719.56	789.30	774.15	772.43
739.20	718.30	719.75	790.50	774.22	774.20
739.40	718.36	720.33	793.00	774.29	776.61
740.20	718.40	720.51	796.20	774.36	782.95
740.40	718.41	720.70	802.60	774.45	789.58
740.90	718.42	721.44	809.20	774.56	793.22
741.10	718.44	722.06	814.50	774.67	802.00
741.70	718.50	722.45	821.30	774.78	813.14
741.80	719.28	722.86	840.90	774.89	832.69
742.00	719.36	723.67			
743.00	719.41	724.30			
743.60	719.42	724.68			
743.90	719.44	725.14			
744.10	719.65	726.10			
744.20	719.69	726.94			
744.30	719.73	727.24			
744.80	719.79	727.81			
745.50	720.40	728.26			
745.70	720.48	728.91			