

CHAPTER 6

International Comparisons of Education

This chapter offers a broad perspective on education across the nations of the world. It also provides an international context for examining the condition of education in the United States. Insights into the educational practices and outcomes of the United States are obtained by comparing them with those of other education systems. Most of the education systems represent countries; however, some of the tables in this chapter also include data for subnational entities with separate education systems, such as Hong Kong. The National Center for Education Statistics (NCES) carries out a variety of activities in order to provide statistical data for international comparisons of education.

This chapter presents data drawn from materials prepared by the United Nations Educational, Scientific, and Cultural Organization (UNESCO); the Organization for Economic Cooperation and Development (OECD); and the International Association for the Evaluation of Educational Achievement (IEA). Basic summary data on enrollments and enrollment ratios, teachers, educational attainment, and finances were synthesized from data published by the OECD in the Online Education Database and the annual *Education at a Glance* report, as well as from data collected by UNESCO. Even though these tabulations are carefully prepared, international data users should be cautioned about the many problems of definition and reporting involved in the collection of data about the education systems of the world, which vary greatly in structure from country to country (see the UNESCO entry at the end of Appendix A: Guide to Sources).

Also presented in this chapter are data from two international assessments of student achievement that are carried out under the aegis of IEA and supported by NCES. The Trends in International Mathematics and Science Study (TIMSS), formerly known as the Third International Mathematics and Science Study, assesses the mathematics and science knowledge and skills of fourth- and eighth-graders every 4 years. The Progress in International Reading Literacy Study (PIRLS) measures the reading knowledge and skills of fourth-graders every 5 years.

This chapter includes additional information from two OECD assessments supported by NCES. The Program for International Student Assessment (PISA) provides performance scores of 15-year-olds in the areas of reading, mathematics, and science literacy; it also measures general, or cross-curricular, competencies such as learning strategies. The Program for the International Assessment of Adult Competencies (PIAAC) assesses the cognitive skills of adults in the areas of literacy, numeracy, and problem solving in technology-rich

environments. PIAAC measures relationships between adults' skills in these areas and their educational background, workplace experiences, occupational attainment, and use of information and communication technology. While PISA and PIAAC focus on OECD countries, data from some non-OECD education systems are also provided.

Further information on survey methodologies is in Appendix A: Guide to Sources and in the publications cited in the table source notes.

Population

Among the reporting OECD countries, Mexico had the largest percentage of its population made up of young people ages 5 to 14 (20 percent) in 2012, followed by Israel (18 percent) and Turkey (17 percent) (table 601.30). OECD countries with small percentages of people in this age group included the Czech Republic, Germany, Greece, Italy, Japan, and Slovenia (all at 9 percent), and Austria, Estonia, Hungary, the Republic of Korea, Poland, Portugal, the Slovak Republic, Spain, and Switzerland (all at 10 percent). In the United States, the proportion of 5- to 14-year-olds was 13 percent, which was higher than in most of the other OECD countries.

Enrollments

In 2013, about 1.5 billion students were enrolled in schools around the world (table 601.10). Of these students, 714 million were in elementary-level programs, 569 million were in secondary programs, and 199 million were in postsecondary programs.

From 2000 to 2013, enrollment changes varied from region to region. Changes in elementary enrollment ranged from increases of 59 percent in Africa, 36 percent in Oceania, and less than 1 percent in Asia to decreases of 10 percent in Europe, 7 percent in Central and South America (including Latin America and the Caribbean), and 3 percent in Northern America (including Bermuda, Canada, Greenland, St. Pierre and Miquelon, and the United States) (table F, table 601.10, and figure 27). Over the same period, secondary enrollment increased by 83 percent in Africa, 34 percent in Asia, 17 percent in Central and South America, 7 percent in Northern America, and 4 percent in Oceania but decreased by 17 percent in Europe. At the postsecondary level, enrollments increased in all major areas of the world from 2000 to 2013. Postsecondary enrollment rose by 164 percent in Asia, 105 percent in Central and South America, 99 percent in Africa, 61 percent in Oceania, 48 percent in Northern America, and 23 percent in Europe.

Table F. Population and enrollment at different levels in major areas of the world: 2000 and 2013

[In millions]

Area of the world	Population	Enrollment		
		Elementary	Secondary	Postsecondary
World total				
2000.....	6,088.6	655.6	450.1	99.6
2013.....	7,101.0	713.6	568.5	198.6
Africa				
2000.....	802.7	109.5	38.6	6.1
2013.....	1,102.6	173.6	70.8	12.2
Asia				
2000.....	3,693.8	404.8	257.5	41.0
2013.....	4,262.1	406.0	344.8	108.2
Europe				
2000.....	730.5	41.7	70.5	25.5
2013.....	744.0	37.7	58.4	31.5
Central and South America				
2000.....	517.8	70.0	55.0	11.5
2013.....	604.9	65.4	64.2	23.7
Northern America				
2000.....	313.4	27.4	25.1	14.4
2013.....	351.2	26.6	26.8	21.3
Oceania				
2000.....	30.4	3.1	3.4	1.0
2013.....	36.3	4.3	3.5	1.7

SOURCE: United Nations Educational, Scientific, and Cultural Organization, unpublished tabulations, and U.S. Department of Commerce, Census Bureau, International Data Base.

Across OECD countries in 2013, an average enrollment rate of 98 percent was reported for the 5- to 14-year-old population, and the enrollment rate was at least 94 percent in all 31 of the OECD countries that reported data for this age group (table 601.35). For 15-year-olds in 2013, the OECD average enrollment rate was 97 percent, with only 2 out of 33 reporting countries having a rate of less than 90 percent (Mexico, at 71 percent, and Turkey, at 88 percent) (table 601.40). The OECD average enrollment rate for youth decreased with each additional year of age, from 94 percent for 16-year-olds to 51 percent for 20-year-olds. Although the U.S. enrollment rates for 15-year-olds (99 percent) and 19-year-olds (60 percent) were higher than the OECD average, the U.S. enrollment rates at ages 16 through 18 were lower than the OECD average.

In all reporting OECD countries, the majority of enrollment was still at the secondary level for 17-year-olds. For older students, however, patterns of enrollment at the secondary and postsecondary levels varied across OECD countries. For example, of the 32 countries that reported separate secondary and postsecondary enrollment rates, 14 countries had a higher percentage of their 19-year-olds enrolled at the secondary level, while 18 countries had a higher percentage enrolled at the postsecondary level. The percentage of 19-year-olds enrolled at the secondary level was at least 5 times higher than the percentage enrolled at the postsecondary level in 3 countries: Iceland (70 percent of 19-year-olds enrolled at the secondary level vs. 4 percent enrolled at the postsecondary level), Italy (22 percent vs. 2 percent), and Denmark (58 percent vs. 8 percent). At the other end of the spectrum, 5 countries reported a percentage of 19-year-olds

enrolled at the postsecondary level that was at least 5 times higher than the percentage enrolled at the secondary level: the Republic of Korea (74 percent of 19-year-olds enrolled at the postsecondary level vs. less than 1 percent enrolled at the secondary level), Ireland (57 percent vs. 4 percent), the United States (52 percent vs. 6 percent), Israel (13 percent vs. 2 percent), and Turkey (40 percent vs. 7 percent).

Achievement

Mathematics and Science at Grades 4 and 8

The 2011 Trends in International Mathematics and Science Study (TIMSS) assessed students' mathematics and science performance at grade 4 in 45 countries and at grade 8 in 38 countries. A number of subnational entities also participated in TIMSS as separate education systems. Examples of subnational participants include the cities of Hong Kong and Taipei, several U.S. states and Canadian provinces, Northern Ireland and England within the United Kingdom, and the Flemish community in Belgium. Results for individual U.S. states are based on public school students only, while U.S. national results are based on both public and private school students. TIMSS assessments are curriculum based and measure what students have actually learned against the subject matter that is expected to be taught by the end of grades 4 and 8, as described in the TIMSS mathematics and science frameworks, which guide assessment development. At both grades, TIMSS scores are reported on a scale of 0 to 1,000, with the scale average set at 500.

In 2011, the average mathematics scores of U.S. fourth-graders (541) and eighth-graders (509) were higher than the TIMSS scale average of 500 (tables 602.20 and 602.30). The average U.S. fourth-grade mathematics score was higher than the average score in 37 of the 44 other countries participating at grade 4, lower than the average score in 3 countries, and not measurably different from the average score in the remaining 4 countries (table 602.20). The 3 countries that outperformed the United States in fourth-grade mathematics were Singapore, the Republic of Korea, and Japan. At grade 8, the average U.S. mathematics score was higher than the average score in 27 of the 37 other participating countries, lower than the average score in 4 countries, and not measurably different from the average score in the remaining 6 countries (table 602.30). The 4 countries that outperformed the United States in eighth-grade mathematics were the Republic of Korea, Singapore, Japan, and the Russian Federation.

Of the two U.S. states that participated in the 2011 TIMSS as separate education systems at grade 4, one state—North Carolina—had an average score for public schools that was higher than both the TIMSS scale average and the U.S. national average in mathematics (table 602.20). Public schools in the other state, Florida, had an average fourth-grade mathematics score that was higher than the TIMSS scale average but not measurably different from the U.S. national average. Of the nine U.S. states that participated separately at grade 8, four states—Massachusetts, Minnesota,

North Carolina, and Indiana—had public school average scores that were higher than both the TIMSS scale average and the U.S. national average in mathematics (table 602.30). The public schools in three states—Colorado, Connecticut, and Florida—had average eighth-grade mathematics scores that were higher than the TIMSS scale average but not measurably different from the U.S. national average. The average eighth-grade score for public schools in California was not measurably different from the TIMSS scale average but was lower than the U.S. national average, while Alabama’s public school average was lower than both the TIMSS scale average and the U.S. national average in mathematics.

The average science scores of both U.S. fourth-graders (544) and U.S. eighth-graders (525) were higher than the TIMSS scale average of 500 in 2011 (tables 602.20 and 602.30). The average U.S. fourth-grade science score was higher than the average score in 39 of the 44 other countries participating at grade 4 and lower than the average score in 5 countries (table 602.20). The 5 countries that outperformed the United States in fourth-grade science were the Republic of Korea, Singapore, Finland, Japan, and the Russian Federation. At grade 8, the average U.S. science score was higher than the average score in 28 of the 37 other participating countries in 2011, lower than the average score in 6 countries, and not measurably different from the average score in the remaining 3 countries (table 602.30). The 6 countries that outperformed the United States in eighth-grade science were Singapore, the Republic of Korea, Japan, Finland, Slovenia, and the Russian Federation.

Public schools in both Florida and North Carolina, which were the two U.S. states participating in the 2011 TIMSS at grade 4, had average fourth-grade science scores that were higher than the TIMSS scale average but not measurably different from the U.S. national average (table 602.20). Of the nine U.S. states that participated at grade 8, three states—Massachusetts, Minnesota, and Colorado—had public school average scores that were higher than both the TIMSS scale average and the U.S. national average in science (table 602.30). Public schools in four states—Indiana, Connecticut, North Carolina, and Florida—had average eighth-grade science scores that were higher than the TIMSS scale average but not measurably different from the U.S. national average. The average eighth-grade score for public schools in California was not measurably different from the TIMSS scale average but was lower than the U.S. national average, while Alabama’s public school average was lower than both the TIMSS scale average and the U.S. national average in science.

Reading Literacy at Grade 4

The Progress in International Reading Literacy Study (PIRLS) has conducted international assessments of fourth-grade reading literacy in 2001, 2006, and 2011. In 2011, PIRLS participants consisted of 40 countries as well as a number of subnational education systems. Examples of subnational participants include the cities of Hong Kong and Taipei, the public school system of the U.S. state of Florida,

several Canadian provinces, Northern Ireland and England within the United Kingdom, and the Flemish community in Belgium. PIRLS scores are reported on a scale from 0 to 1,000, with the scale average set at 500.

On the 2011 PIRLS, U.S. fourth-graders had an average reading literacy score of 556 (table 602.10). The U.S. average score in 2011 was 14 points higher than in 2001 and 16 points higher than in 2006. In all 3 assessment years, the U.S. average score was higher than the PIRLS scale average.

In 2011, the average reading literacy score of fourth-graders in the United States was higher than the average score in 33 of the 39 other participating countries, lower than the average score in 3 countries, and not measurably different from the average in the remaining 3 countries. The 3 countries that outperformed the United States on the 2011 PIRLS were the Russian Federation, Finland, and Singapore. Public school students in Florida scored higher than both the PIRLS scale average and the U.S. national average.

In the United States, the 2011 average reading literacy score for females (562) was higher than the average score for males (551). In 34 of the 39 other participating countries, the average score for females was also higher than the average score for males, while there was no measurable difference between females’ and males’ average scores in the remaining 5 countries.

Reading, Mathematics, and Science Literacy at Age 15

The Program for International Student Assessment (PISA) assesses 15-year-old students’ application of reading, mathematics, and science literacy to problems within a real-life context. In 2012, PISA assessed students in the 34 OECD countries as well as in a number of other education systems. Some subnational entities participated as separate education systems, including the U.S. states of Connecticut, Florida, and Massachusetts. Results for individual U.S. states are based on public school students only, while U.S. national results are based on both public and private school students. PISA scores are reported on a scale of 0 to 1,000.

On the 2012 PISA assessment, U.S. 15-year-olds’ average score in reading literacy was 498, which was not measurably different from the OECD average of 496 (table 602.50). The average reading literacy score in the United States was lower than the average score in 13 of the 33 other OECD countries, higher than the average score in 10 of the other OECD countries, and not measurably different from the average score in 10 of the OECD countries. The average reading literacy scores of public school students in Massachusetts (527) and Connecticut (521) were higher than both the U.S. average and the OECD average, while the average score in Florida (492) was not measurably different from either the U.S. average or the OECD average. In all participating education systems, females outperformed males in reading (table 602.40). The U.S. gender gap in reading (31 points) was smaller than the OECD average gap (38 points) and smaller than the gaps in 14 of the OECD countries.

In mathematics literacy, U.S. 15-year-olds' average score of 481 on the 2012 PISA assessment was lower than the OECD average score of 494 (table 602.60). The average mathematics literacy score in the United States was lower than the average in 21 of the 33 other OECD countries, higher than the average in 5 OECD countries, and not measurably different from the average in 7 OECD countries. The average mathematics literacy score of public school students in Massachusetts (514) was higher than both the U.S. average and the OECD average, while the average score in Connecticut (506) was higher than the U.S. average but not measurably different from the OECD average. The average score in Florida (467) was lower than both the U.S. average and the OECD average. In 25 of the OECD countries, males outperformed females in mathematics literacy (table 602.40). In the United States, however, the average score of males (484) was not measurably different from that of females (479).

In science literacy, U.S. 15-year-olds' average score of 497 was not measurably different from the OECD average score of 501 (table 602.70). The average science literacy score in the United States was lower than the average in 15 OECD countries, higher than the average in 8 OECD countries, and not measurably different from the average in 10 OECD countries. The average science literacy scores of public school students in Massachusetts (527) and Connecticut (521) were higher than both the U.S. average and the OECD average. The average score in Florida (485) was not measurably different from the U.S. average but was lower than the OECD average.

Educational Attainment

In 2014, the percentage of 25- to 64-year-olds who had completed high school varied among reporting OECD countries (table 603.10). The OECD country reporting the highest percentage of 25- to 64-year-olds who had completed high school was the Czech Republic (93 percent), followed by Estonia, the Slovak Republic, and Poland (all at 91 percent). High school completers made up 90 percent of 25- to 64-year-olds in 2 OECD countries (Canada and the United States), and 12 OECD countries reported percentages between 80 and 88 percent. The OECD country reporting the lowest percentage of high school completers among 25- to 64-year-olds was Mexico (34 percent), followed by Turkey (36 percent) and then Portugal (43 percent).

In 2014, the OECD country reporting the highest percentage of 25- to 64-year-olds with a postsecondary degree (i.e., any degree at the associate's level or above) was Canada (54 percent), followed by Israel (49 percent), Luxembourg (46 percent), the Republic of Korea (45 percent), and the United States (44 percent) (table 603.20). An additional 6 OECD countries reported that at least 40 percent of their 25- to 64-year-olds had a postsecondary degree. The OECD countries reporting the lowest percentages of 25- to 64-year-olds with a postsecondary degree were Italy and Turkey (both at 17 percent), followed by Mexico (19 percent).

Among younger adults (those 25 to 34 years old) in OECD countries, the percentage with a postsecondary degree also varied in 2014 (table 603.20 and figure 28). The OECD country reporting the highest percentage of younger adults with a postsecondary degree was the Republic of Korea (68 percent), followed by Canada (58 percent) and then Luxembourg (53 percent). At least 40 percent of younger adults had a postsecondary degree in 18 additional countries, including the United States (46 percent). The OECD country reporting the lowest percentage of younger adults with a degree in 2014 was Italy (24 percent), followed by Mexico and Turkey (both at 25 percent).

Degrees

In 27 of the 30 reporting OECD countries, more than half of all postsecondary degrees (i.e., all degrees at the associate's level or above) were awarded to women in 2013 (table 603.60). However, the proportion of degrees awarded to women varied by field. For example, 29 of the 30 countries reported that at least 70 percent of education degrees were awarded to women. In contrast, 18 of the countries reported that less than 25 percent of degrees in the combined field of engineering, manufacturing, and construction were awarded to women.

The percentages of bachelor's degrees that were awarded in mathematics and science fields—including natural sciences, mathematics and computer science, and engineering—varied across the 32 OECD countries that reported these data in 2013 (table 603.70). Three of the reporting OECD countries awarded 30 percent or more of their bachelor's degrees in mathematics and science fields: Germany (36 percent), the Republic of Korea (33 percent), and Greece (30 percent). Two countries awarded less than 15 percent of their bachelor's degrees in mathematics and science fields: Norway (13 percent) and the Netherlands (14 percent). In 2013, the United States awarded 17 percent of its bachelor's degrees in mathematics and science fields, a lower percentage than most other reporting countries.

The percentages of graduate degrees awarded in mathematics and science fields—including natural sciences, mathematics and computer science, and engineering—varied widely across OECD countries in 2013 (table 603.80). In most of the countries, a higher percentage of degrees were awarded in mathematics and science fields at the doctoral level than at the master's level. In 2013, data at the master's level were reported by 32 OECD countries. Five of the reporting OECD countries awarded 30 percent or more of their master's degrees in mathematics and science fields: Japan (42 percent), Greece and Sweden (both at 32 percent), Germany (31 percent), and Estonia (30 percent). Six OECD countries awarded less than 15 percent of their master's degrees in mathematics and science fields: Chile (6 percent), Mexico (11 percent), Israel and the United States (both at 12 percent), and Ireland and the Netherlands (both at 14 percent). Data at the doctoral level were reported by 31 OECD countries in 2013. Six of the reporting OECD countries awarded more than half of their

doctor's degrees in mathematics and science fields: France (62 percent), Chile (59 percent), Canada (56 percent), Israel (52 percent), and Estonia and Sweden (both at 51 percent). Only 2 OECD countries reported awarding less than 30 percent of their doctor's degrees in mathematics and science fields: Turkey (20 percent) and Mexico (28 percent). The United States awarded 41 percent of its doctor's degrees in mathematics and science fields.

Skills of Adults

The Program for the International Assessment of Adult Competencies (PIAAC) assesses the cognitive skills of adults in three areas—literacy, numeracy, and problem solving in technology-rich environments—that are seen as key to facilitating the social and economic participation of adults in advanced economies. The discussion below focuses on the areas of literacy and numeracy. PIAAC 2012 results are available for adults in 24 participating countries and regions, including 22 that belong to the OECD. Participating countries and regions are referred to collectively as “education systems” in the *Digest*. The education systems that participated in the 2012 assessment were primarily countries, but also included three subnational education systems: Northern Ireland and England within the United Kingdom, and the Flemish community in Belgium. PIAAC literacy and numeracy scores are reported on a scale of 0 to 500.

In 2012, average scores on the PIAAC literacy scale for adults ages 25 to 65 ranged from 249 in Italy and 250 in Spain to 296 in Japan (table 604.10). U.S. 25- to 65-year-olds had an average PIAAC literacy score of 269, which was not measurably different from the OECD average score of 271. Across education systems, adults' average literacy scores generally increased with higher levels of educational attainment. In the United States, for example, 25- to 65-year-olds whose highest level of attainment was high school completion had an average literacy score of 259, compared with an average score of 302 for those who had a bachelor's or higher degree. The literacy score for U.S. high school completers in the 25- to 65-year-old age group was lower than the OECD average of 268 for high school completers in this age group, while the literacy score for U.S. 25- to 65-year-olds with a bachelor's or higher degree was not measurably different from the OECD average of 302 for those with a bachelor's or higher degree.

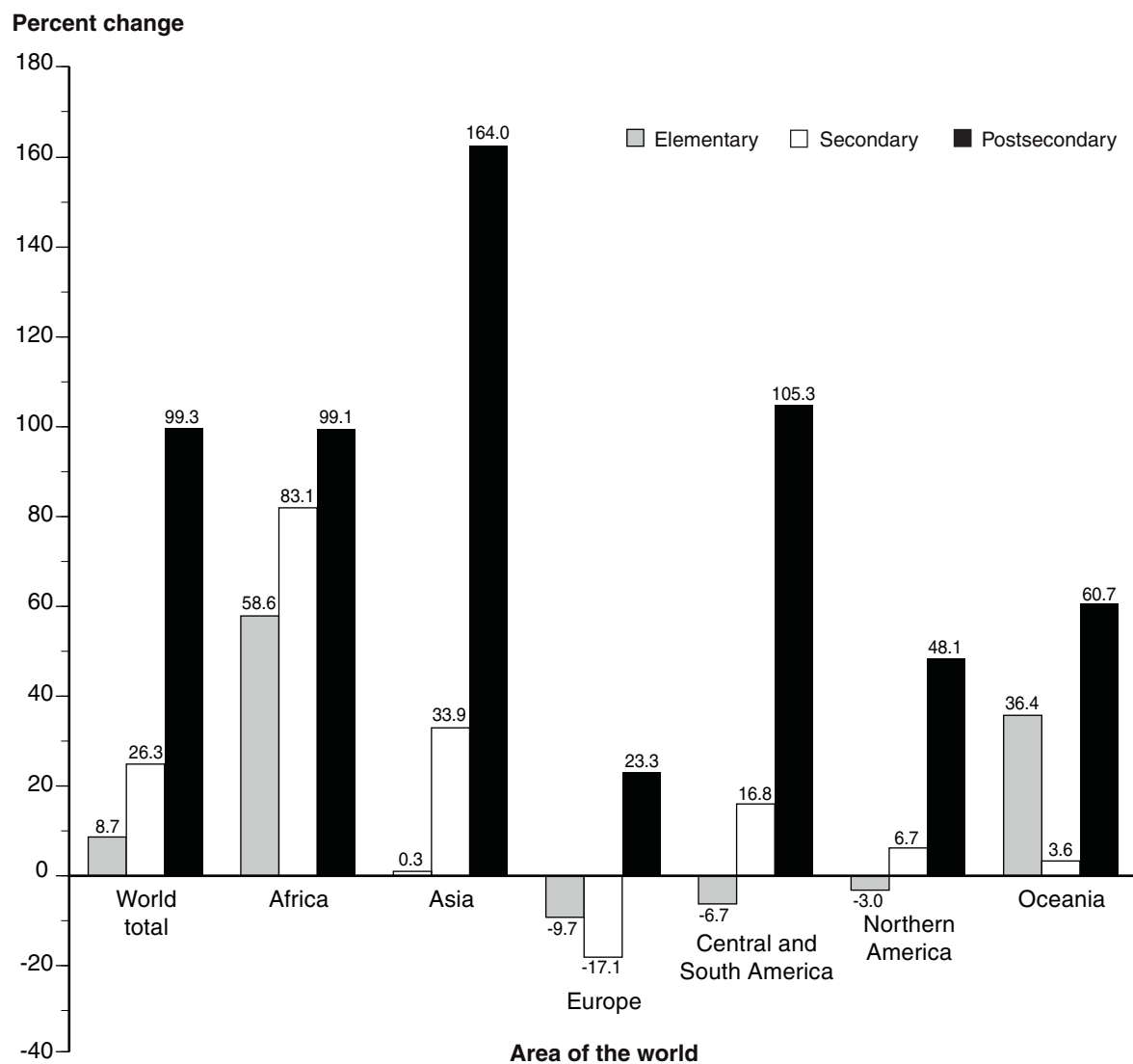
On the PIAAC numeracy scale, 2012 average scores for adults ages 25 to 65 ranged from 245 in Spain and 246 in

Italy to 289 in Japan. U.S. 25- to 65-year-olds had an average PIAAC numeracy score of 254, which was lower than the OECD average score of 268. Across education systems, adults' average numeracy scores generally increased with higher levels of educational attainment. In the United States, for example, 25- to 65-year-olds whose highest level of attainment was high school completion had an average numeracy score of 241, compared with an average score of 293 for those who had a bachelor's or higher degree. The numeracy score for U.S. 25- to 65-year-olds who had completed only high school was lower than the OECD average of 265 for those with the same level of educational attainment. Likewise, the average numeracy score of U.S. 25- to 65-year-olds with a bachelor's or higher degree was lower than the OECD average of 303 for those with a bachelor's or higher degree.

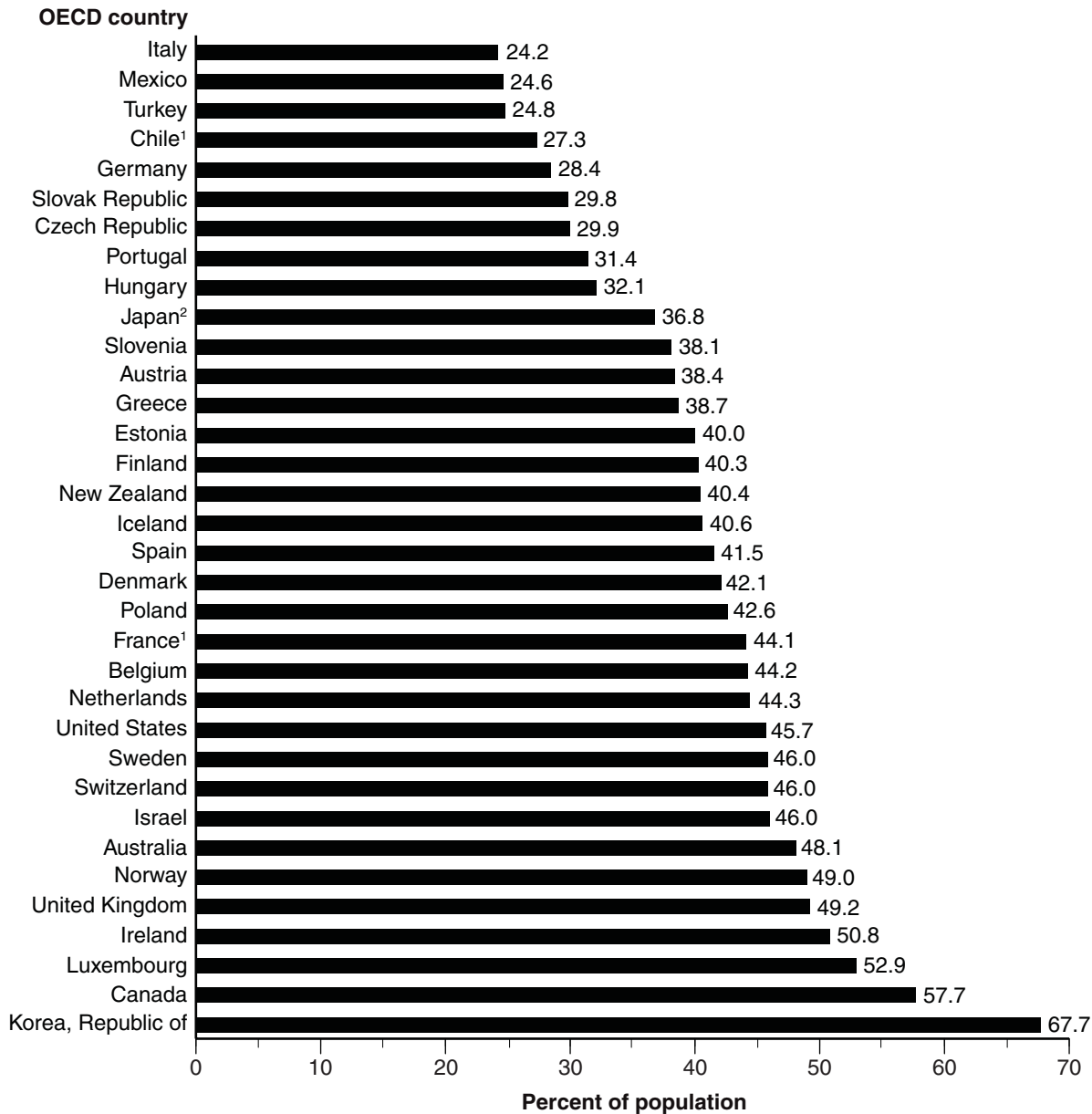
Finances

In 2012, expenditures per full-time-equivalent (FTE) student at the combined elementary and secondary level of education were at least \$11,000 (in current U.S. dollars) in 6 of the 32 OECD countries that reported finance data for this level of education (table 605.10). Specifically, Luxembourg spent \$20,200 per elementary/secondary student; Switzerland spent \$15,500; Norway spent \$13,600; Austria spent \$12,200; the United States spent \$11,700; and Belgium spent \$11,000. At the higher education level, 9 of 31 reporting countries had expenditures of over \$17,000 per FTE student in 2012: Luxembourg (\$32,900), the United States (\$26,600), Switzerland (\$25,300), the United Kingdom (\$24,300), Sweden (\$22,500), Norway (\$20,000), the Netherlands (\$19,300), Finland (\$17,900), and Germany (\$17,200). These expenditures were adjusted to U.S. dollars using the purchasing-power-parity (PPP) index. This index is considered more stable and comparable than indexes using currency exchange rates; for more information, see appendix B.

A comparison of public direct expenditures on all education levels as a percentage of gross domestic product (GDP) in reporting OECD countries shows that public investment in education in 2012 ranged from 3.5 percent in Japan and the Slovak Republic to 6.5 percent in Norway (table 605.20 and figure 29). Among reporting OECD countries, the average public direct expenditure on education in 2012 was 4.7 percent of GDP. In the United States, the public direct expenditure on education as a percentage of GDP was 4.7 percent.

Figure 27. Percentage change in enrollment, by major areas of the world and level of education: 2000 to 2013

NOTE: Europe includes all countries of the former Union of Soviet Socialist Republics (U.S.S.R.) except Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, and Uzbekistan, which are included in Asia. Asia also includes Turkey, the Arab states (except those located in Africa), and Israel. Central and South America includes Latin America and the Caribbean. Northern America includes Bermuda, Canada, Greenland, St. Pierre and Miquelon, and the United States. Data include imputed values for nonrespondent countries. SOURCE: United Nations Educational, Scientific, and Cultural Organization (UNESCO), unpublished tabulations. U.S. Department of Commerce, Census Bureau, International Data Base (March 2016).

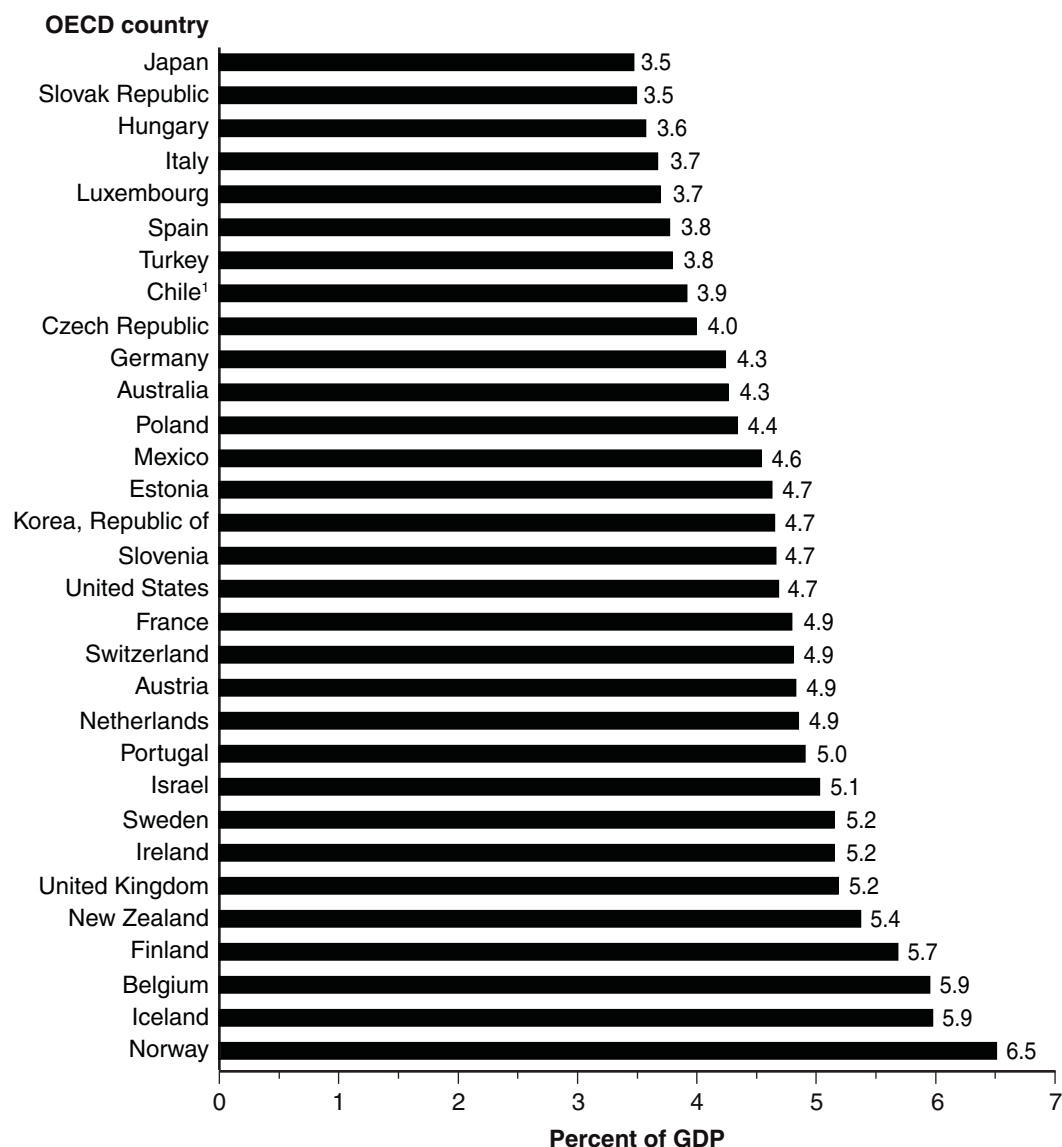
Figure 28. Percentage of the population 25 to 34 years old with an associate's or higher degree, by OECD country: 2014

¹Data from 2013 are reported for 2014.

²Excludes short-cycle tertiary education, which corresponds to the associate's degree in the United States.

NOTE: All data in this figure were calculated using International Standard Classification of Education (ISCED) 2011. The data refer to total tertiary degrees, which correspond to all degrees at the associate's level and above in the United States and include the following ISCED 2011 levels: level 5 (corresponding to the associate's degree in the United States), level 6 (bachelor's or equivalent degree), level 7 (master's or equivalent degree), and level 8 (doctoral or equivalent degree).

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2015.

Figure 29. Public direct expenditures on education institutions as a percentage of gross domestic product (GDP), by selected OECD country: 2012

¹Data are for 2013 instead of 2012. Data for 2012 were not available.

NOTE: Includes public direct expenditures on all levels of education institutions. Public direct expenditures on education institutions include public subsidies to households for payments to education institutions; direct expenditures on education institutions from international sources; amounts spent directly by governments to hire education personnel and to procure other resources; and amounts provided by governments to public or private institutions.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance, 2015*.

Table 601.10. Population, school enrollment, and number of teachers, by major areas of the world and level of education: Selected years, 1980 through 2013

[In thousands]

Year and selected characteristic	World total ¹	Major areas of the world					
		Africa	Asia ^{1,2}	Europe ²	Central and South America ³	Northern America ³	Oceania
1	2	3	4	5	6	7	8
1980							
Population, all ages ⁴	4,451,363	478,543	2,644,522	695,225	358,609	251,929	22,534
Enrollment, all levels	869,566	78,324	493,917	134,429	97,146	60,542	5,207
Primary (elementary) ⁵	525,601	61,541	334,056	47,661	56,801	22,893	2,649
Secondary ⁶	294,322	15,080	146,867	69,983	35,550	24,695	2,147
Postsecondary ⁷	49,644	1,703	12,995	16,785	4,796	12,955	411
Teachers, all levels	39,584	2,325	19,270	—	4,407	—	276
Primary (elementary) ⁵	18,475	1,646	10,711	2,499	1,872	—	134
Secondary ⁶	17,202	586	7,418	—	2,153	1,309	112
Postsecondary ⁷	3,906	92	1,141	—	383	815	31
1990							
Population, all ages ⁴	5,288,956	630,010	3,191,764	722,628	440,609	277,533	26,412
Enrollment, all levels	985,773	107,320	561,993	132,628	116,498	61,543	5,790
Primary (elementary) ⁵	577,034	78,099	361,455	45,195	65,049	24,629	2,607
Secondary ⁶	341,284	26,386	177,769	68,827	44,201	21,534	2,566
Postsecondary ⁷	67,455	2,836	22,768	18,607	7,248	15,380	617
Teachers, all levels	47,877	3,630	24,523	—	5,538	3,938	314
Primary (elementary) ⁵	22,103	2,288	13,063	2,610	2,396	1,608	139
Secondary ⁶	20,751	1,201	9,744	5,791	2,541	1,340	134
Postsecondary ⁷	5,024	141	1,717	—	601	991	41
2000							
Population, all ages ⁴	6,088,571	802,705	3,693,777	730,523	517,756	313,388	30,421
Enrollment, all levels	1,206,331	154,222	703,297	137,693	136,593	66,968	7,559
Primary (elementary) ⁵	656,568	109,452	404,809	41,699	70,043	27,435	3,131
Secondary ⁶	450,115	38,643	257,507	70,453	55,011	25,117	3,384
Postsecondary ⁷	99,649	6,127	40,981	25,541	11,539	14,416	1,044
Teachers, all levels	56,535	4,917	29,336	10,705	6,527	4,648	—
Primary (elementary) ⁵	24,862	2,843	14,569	2,739	2,751	1,806	155
Secondary ⁶	24,987	1,790	12,323	6,096	2,900	1,682	—
Postsecondary ⁷	6,686	285	2,444	1,870	876	1,161	50
2005							
Population, all ages ⁴	6,473,045	907,737	3,918,933	733,244	552,438	328,033	32,659
Enrollment, all levels	1,326,269	194,285	772,684	135,543	143,471	72,389	7,898
Primary (elementary) ⁵	679,003	136,505	405,256	38,472	68,848	26,780	3,142
Secondary ⁶	507,988	49,168	304,929	64,895	58,496	27,039	3,462
Postsecondary ⁷	139,278	8,612	62,499	32,176	16,127	18,570	1,295
Teachers, all levels	64,255	5,937	34,432	10,826	7,628	5,007	—
Primary (elementary) ⁵	26,796	3,449	15,735	2,674	2,917	1,865	—
Secondary ⁶	28,302	2,139	14,831	5,864	3,484	1,774	—
Postsecondary ⁷	9,157	349	3,866	2,288	1,227	1,368	59
2010							
Population, all ages ⁴	6,866,332	1,025,744	4,136,475	740,296	585,639	343,239	34,940
Enrollment, all levels	1,423,325	233,885	827,834	128,692	149,189	75,166	8,558
Primary (elementary) ⁵	696,711	159,515	403,576	36,751	66,682	26,565	3,622
Secondary ⁶	544,881	62,957	332,852	58,234	60,667	26,809	3,362
Postsecondary ⁷	181,734	11,413	91,407	33,708	21,840	21,792	1,574
Teachers, all levels	71,591	7,284	39,761	10,520	8,143	5,454	—
Primary (elementary) ⁵	28,547	4,006	16,850	2,676	2,922	1,920	—
Secondary ⁶	31,993	2,821	18,077	5,420	3,586	1,898	—
Postsecondary ⁷	11,052	457	4,833	2,424	1,634	1,637	67
2013							
Population, all ages ⁴	7,101,028	1,102,597	4,262,082	743,962	604,918	351,199	36,271
Enrollment, all levels	1,480,690	256,560	859,031	127,582	153,299	74,766	9,453
Primary (elementary) ⁵	713,581	173,601	406,046	37,663	65,378	26,624	4,269
Secondary ⁶	568,543	70,762	344,813	58,434	64,234	26,795	3,505
Postsecondary ⁷	198,567	12,197	108,172	31,485	23,687	21,347	1,679
Teachers, all levels	74,026	8,314	—	10,332	8,423	5,234	—
Primary (elementary) ⁵	29,486	4,519	17,304	2,676	2,977	1,820	—
Secondary ⁶	32,740	3,276	18,328	5,353	3,792	1,787	—
Postsecondary ⁷	11,800	519	—	2,303	1,654	1,627	68

—Not available.

¹Enrollment and teacher data for the world total and Asia exclude Taiwan.²Europe includes all countries of the former Union of Soviet Socialist Republics (U.S.S.R.) except Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, and Uzbekistan, which are included in Asia. Asia also includes Turkey, the Arab states (with the exception of those located in Africa), and Israel.³Central and South America includes Latin America and the Caribbean. Northern America includes Bermuda, Canada, Greenland, St. Pierre and Miquelon, and the United States.⁴Estimate of midyear population.⁵This level generally corresponds to grades 1–6 in the United States.⁶Includes general education, teacher training (at the secondary level), and technical and vocational education. This level generally corresponds to grades 7–12 in the United States.⁷Includes college and university enrollment, and technical and vocational education beyond the secondary level.

NOTE: Detail may not sum to totals because of rounding. Data include imputed values for nonrespondent countries. Enrollment and teacher data exclude several island countries or territories with small populations (less than 150,000). Some data have been revised from previously published figures.

SOURCE: United Nations Educational, Scientific, and Cultural Organization (UNESCO), unpublished tabulations. U.S. Department of Commerce, Census Bureau, International Data Base, retrieved March 31, 2016, from <http://www.census.gov/population/international/data/idb/informationGateway.php>. (This table was prepared March 2016.)

Table 601.20. Selected population and enrollment statistics for countries with populations of at least 10 million in 2013, by continent and country: Selected years, 1990 through 2013

Continent and country ¹	Midyear population (in millions)				Persons per square kilometer, 2013	Primary (elementary) ²				Secondary ³				Postsecondary ⁴																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	1991		2000			Enrollment (in thousands)		Gross enrollment ratio ⁵		Enrollment (in thousands)		Gross enrollment ratio ⁵		Enrollment (in thousands)		Gross enrollment ratio ⁵																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
						1999-2000	2012-13	1990-91	1999-2000	2012-13	1999-2000	2012-13	1990-91	1999-2000	2012-13	1990-91	1999-2000	2012-13																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
World total ⁶	5,372	6,089	7,101	54	655,727	712,994 ⁷	99	98	108 ⁷	449,304	567,831 ⁷	52	59	75 ⁷	99,301	198,020	14	19	19	20	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

See notes at end of table.

Table 601.20. Selected population and enrollment statistics for countries with populations of at least 10 million in 2013, by continent and country: Selected years, 1990 through 2013—Continued

Continent and country ¹	Midyear population (in millions)				Persons per square kilometer, 2013	Primary (elementary) ²				Secondary ³				Postsecondary ⁴			
	1991	2000	2013			Enrollment (in thousands)		Gross enrollment ratio ⁵		Enrollment (in thousands)		Gross enrollment ratio ⁵		Enrollment (in thousands)		Gross enrollment ratio ⁵	
						1999-2000	2012-13	1990-91	2012-13	1999-2000	2012-13	1990-91	2012-13	1999-2000	2012-13	1990-91	2012-13
	2	3	4	5		6	7	8	9	10	11	12	13	14	15	16	17
1																	
Saudi Arabia.....	16	21	27	13		—	3,636	—	—	107	—	3,400 ⁷	—	—	108 ⁷	404	1,357
Sri Lanka ⁸	17	19	22	335		—	1,767	110	—	101	—	2,606	72	—	100	—	298
Syria.....	13	17	20	110		2,775	1,547	107	108	80	1,069	1,857	48	44	50	—	660
Taiwan.....	20	22	23	722		—	—	—	—	—	—	—	—	—	—	—	—
Thailand.....	57	63	67	132		6,101	4,955	100	98	97	—	—	30	—	86	1,900	2,405
Turkey.....	58	66	77	101		6,562	5,594	104	103	108	5,658	10,563	52	73	115	—	4,976
Uzbekistan.....	21	25	29	67		2,602	—	111	101	108	3,566	—	99	86	—	305	—
Vietnam.....	69	79	92	298		10,063	7,203	106	109	108	—	—	—	—	—	732	2,250
Yemen.....	13	17	25	48		—	3,875	—	—	97	—	1,768	—	—	49	—	—
Europe																	
Belgium.....	10	10	11	368		774	764	100	105	105	1,058	1,207	103	145	163	356	488
Czech Republic.....	10	10	11	137		645	492	97	103	99	958	801	90	88	104	254	427
France.....	59	61	66	103		3,885	4,171	109	105	106	5,929	5,914	101	109	111	2,015	2,338
Germany ¹¹	80	82	81	233		3,656	2,890	102	107	103	8,307	7,289	99	100	102	—	2,780
Greece.....	10	11	11	83		634	634	99	97	99	739	695	95	90	108	422	659
Italy ²	57	58	61	209		2,836	2,861	99	103	102	4,404	4,594	81	92	102	1,770	1,873
Netherlands ³	15	16	17	496		1,279	1,255 ⁷	103	109	106 ⁷	1,379	1,555 ⁷	120	124	131 ⁷	488	—
Poland ⁴	38	39	39	127		3,319	2,161	98	98	101	3,988	2,778	88	99	109	1,580	1,903
Portugal.....	10	10	11	118		811	693	120	123	110	831	799	68	105	120	374	371
Romania ⁵	23	22	22	95		1,189	—	85	97	—	2,226	1,669	89	79	98	453	618
Russian Federation.....	148	147	143	9		6,138	5,652	110	103	100	—	9,092	96	—	99	6,331	7,528
Spain ⁶	39	41	47	95		2,540	2,935	105	104	106	3,246	3,296	103	110	131	1,829	1,969
Ukraine ⁷	52	49	45	78		2,079	1,638	119	115	108	5,315	6,497	88	104	98	1,812	2,206
United Kingdom ⁸	58	59	63	262		4,632	4,622	105	100	109	—	—	—	102	124	2,024	2,386
North America																	
Canada.....	28	31	35	4		2,456	—	104	100	—	2,519	—	101	102	—	1,212	—
Cuba.....	11	11	11	101		1,046	772	98	101	98	790	787	90	83	93	159	373
Dominican Republic.....	7	8	10	212		1,364	1,291	100	114	103	654	920	—	59	78	—	—
Guatemala.....	9	11	14	134		1,909	2,499	77	102	108	504	1,160	23	36	64	—	294
Mexico.....	86	100	119	61		14,766	14,837	110	106	104	9,094	12,467	52	70	87	1,963	3,300
United States.....	253	282	316	35		24,973	24,418	104	103	99	22,594	24,095	91	93	96	13,203	19,973
South America																	
Argentina.....	34	37	43	16		4,728	4,792	109	113	111	3,428	4,406	72	86	106	1,767 ⁷	2,768
Bolivia.....	7	8	10	10		1,492	1,349	102	120	—	877 ⁷	1,113	—	78 ⁷	85	279	—
Brazil.....	152	174	201	24		20,212	16,761	—	—	—	—	24,881	—	—	—	2,781	7,323
Chile.....	13	15	17	23		1,799	1,472	107	109	100	1,391	1,571	96	87	100	452	1,174
Colombia.....	34	39	46	44		5,221	4,708	102	121	—	3,569	4,910	52	70	—	934	2,109
Ecuador.....	10	12	15	56		1,925	2,103	122	111	116	917	1,835	57	58	102	—	586
Peru.....	22	26	30	23		4,338	3,545	117	121	103	2,374	2,732	66	85	98	900	—
Venezuela.....	20	23	28	32		3,328	3,520	109	99	102	1,543	2,575	56	59	92	668	—
Oceania																	
Australia ⁹	17	19	22	3		1,906	2,128	106	100	107	2,589	2,384	—	163	138	845	1,390

—Not available.

[#]Rounds to zero.¹Selection based on total population for midyear 2013.²This level generally corresponds to grades 1–6 in the United States.³Includes general education, teacher training (at the secondary level), and technical and vocational education. This level generally corresponds to grades 7–12 in the United States.⁴Includes college and university enrollment, and technical and vocational education beyond the secondary level.⁵Data represent the total enrollment of all ages in the school level divided by the population of the specific age groups that correspond to the school level. Adjustments have been made for the varying lengths of primary and secondary programs. Ratios may exceed 100 because some countries have many students from outside the normal age range.⁶Enrollment totals and ratios exclude the Democratic People's Republic of Korea (North Korea).⁷Estimated by the United Nations Educational, Scientific, and Cultural Organization (UNESCO) Institute for Statistics.⁸Classification or data coverage of levels has been revised. Data by level may not be comparable over time.⁹Policy change in 1999–2000: introduction of free universal primary education.¹⁰National estimation.¹¹Data include both former East and West Germany.

NOTE: Data do not include adult education or special education provided outside regular schools. Some data have been revised from previously published figures.

SOURCE: United Nations Educational, Scientific, and Cultural Organization (UNESCO), *Statistical Yearbook, 1999*; unpublished tabulations; and tabulations from the UNESCO Institute for Statistics Online Data Center, retrieved May 16, 2016, from <http://data.us.unesco.org/>; U.S. Department of Commerce, Census Bureau, International Data Base, retrieved May 16, 2016, from <http://www.census.gov/population/international/data/idb/informationGateway.php>. (This table was prepared May 2016.)

Table 601.30. School-age populations as a percentage of total population, by age group and country: Selected years, 1985 through 2012

Country	5- to 14-year-olds as a percent of total population											15- to 19-year-olds as a percent of total population										
	1985 ¹	1990 ¹	1995 ¹	2005	2006	2007	2008	2009	2010	2011	2012	1985 ²	1990 ²	1995 ²	2005	2006	2007	2008	2009	2010	2011	2012
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1																						

—Not available.

¹Data are for the 5- to 13-year-old population.²Data are for the 14- to 17-year-old population.³Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year. However, if data were reported for less than 75 percent of the countries, the average for that year is omitted.⁴Country did not exist in its current form in the given year.⁵Data for 1985 are for the former West Germany.SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, selected years, 1987 through 2011; and Online Education Database, retrieved February 8, 2016, from <http://stats.oecd.org/Index.aspx>. (This table was prepared February 2016.)

Table 601.35. Percentage of 3- and 4-year-olds and 5- to 14-year-olds enrolled in school, by country: 2000 through 2013

Country	Percent of 3- and 4-year-olds enrolled		Percent of 5- to 14-year-olds enrolled													
	2012	2013	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
OECD average¹	76.2	80.5	97.8	98.1	98.3	98.0	98.0	98.2	98.3	98.5	98.7	98.5	98.8	98.6	98.4	98.3
Australia.....	46.6	72.1	100.0	100.1	99.3	98.2	98.5	99.1	99.6	99.3	99.3	99.3	99.2	99.4	101.1	100.6
Austria.....	77.8	81.4	98.2	98.7	98.9	98.5	98.5	98.4	98.1	98.3	98.5	98.4	98.4	98.2	98.2	98.4
Belgium.....	98.6	97.9	99.1	100.2	100.1	100.3	100.4 ²	99.6 ²	99.4	99.3	99.1	98.9	98.6	98.5	98.5	97.9
Canada.....	—	—	97.1	97.2	—	—	—	—	—	—	—	98.7	98.8	98.9	99.9	—
Chile.....	62.1	67.3	93.6	—	92.1	90.8	89.5	88.3	91.2	96.1	96.1	93.2	95.1	94.3	93.9	97.3
Czech Republic.....	70.3	70.9	99.8	99.8	99.3	99.8	99.7	99.8	99.9	99.8	98.7	98.7	98.1	97.7	98.6	98.1
Denmark.....	97.5	96.9	99.2	97.2	99.1	99.1	98.0	97.1	97.4	98.0	97.6	97.6	99.1	99.4	99.3	99.4
Estonia.....	88.9	89.2	—	—	—	—	—	104.6	102.2	100.4	100.4	100.0	96.4	95.7	95.2	96.4
Finland.....	55.1	71.4	91.6	93.5	94.4	94.6	95.1	95.1	95.1	95.3	95.5	95.5	95.5	95.7	95.7	96.8
France.....	99.1	100.1	99.8	101.0	101.1	101.4	101.6	101.3	101.0	100.9	100.7	99.8	99.6	99.4	99.1	99.1
Germany.....	93.3	94.0	99.4	100.1	97.5	97.6	97.9	98.3	98.8	99.2	99.3	99.4	99.4	98.5	99.4	98.7
Greece.....	25.6	—	99.8	98.1	96.3	96.7	97.2	97.5	98.1	97.7	98.9	100.1	100.7	100.0	99.2	—
Hungary.....	83.6	84.3	99.9	99.4	100.3	100.4	100.5	100.3	100.3	99.8	99.6	98.9	98.5	98.1	97.6	97.1
Iceland.....	96.1	96.4	98.5	98.9	98.5	98.8	98.8	98.9	98.8	98.3	98.5	98.2	98.5	98.6	98.8	98.5
Ireland.....	69.1	69.9	100.5	100.6	101.4	100.4	100.9	101.1	101.2	102.6	101.5	101.7	102.1	101.1	100.9	100.0
Israel.....	89.1	100.0	96.6	96.9	96.1	96.8	96.6	96.0	95.8	96.1	95.7	96.2	97.8	96.8	97.8	98.2
Italy.....	94.2	96.5	99.7	99.4	101.7	101.9	101.6	101.2	100.7	100.3	100.3	99.8	99.5	99.0	98.6	100.0
Japan.....	85.9	88.2	101.2	101.0	100.8	100.7	100.7	100.7	100.7	100.5	100.7	101.0	101.5	101.1	101.3	100.0
Korea, Republic of ..	86.3	—	92.3	92.6	92.7	93.2	93.5	94.1	94.9	95.7	95.1	95.7	99.7	99.1	98.8	—
Luxembourg.....	85.4	85.1	95.3	92.2	93.4	96.7	96.4	96.7	96.2	95.9	95.8	95.6	95.8	96.0	97.9	97.1
Mexico.....	63.3	66.1	94.8	95.0	95.7	96.9	97.7	99.9	100.9	102.1	103.4	104.6	106.1	107.7	100.2	100.0
Netherlands.....	91.4	91.5	99.4	99.3	99.3	99.7	99.6	99.0	99.6	99.5	99.6	99.5	99.5	99.8	99.8	99.5
New Zealand.....	90.7	98.2	99.0	99.3	99.5	100.1	100.5	100.9	101.0	99.7	100.2	100.6	100.9	101.0	100.7	100.0
Norway.....	96.1	96.2	97.4	97.6	97.9	98.1	98.3	98.4	98.8	99.2	99.5	99.5	99.5	99.6	99.5	99.5
Poland.....	58.0	60.0	93.6	94.3	94.4	94.2	94.5	94.6	94.5	94.5	94.0	94.1	94.9	95.3	95.5	95.9
Portugal.....	84.9	84.2	105.2	107.0	106.0	105.3	104.1	103.9	103.8	104.2	104.1	103.1	102.4	102.1	102.1	100.0
Slovak Republic.....	67.5	68.1	—	97.9	98.1	97.3	97.3	97.1	96.8	96.8	96.6	96.1	95.8	95.5	94.5	94.2
Slovenia.....	87.1	86.7	—	—	—	—	—	96.5	96.4	96.2	96.8	97.1	97.1	97.1	97.4	97.1
Spain.....	96.1	96.2	104.4	103.6	103.8	102.5	101.8	101.4	101.0	100.7	100.4	100.1	99.5	99.0	97.8	97.5
Sweden.....	93.4	93.7	97.8	98.1	98.2	98.6	99.1	99.5	98.8	100.3	99.3	98.7	98.5	97.4	99.0	98.5
Switzerland.....	21.6	22.2	98.8	98.7	98.6	99.3	99.6	99.6	100.3	100.4	100.2	100.0	100.1	99.5	99.3	99.6
Turkey.....	12.0	21.7	80.2	83.5	—	82.0	81.2	81.8	82.9	84.3	91.9	91.3	94.1	94.9	95.2	96.3
United Kingdom.....	95.5	96.3	98.9	98.7	98.9	100.5	100.4	101.0	100.7	99.3	101.5	101.4	103.1	100.7	98.0	98.2
United States.....	53.5	53.7	99.3	102.1	96.9	97.1	97.3	97.7	98.0	98.3	98.6	97.1	96.8	96.2	97.3	96.9
Other reporting countries																
Argentina.....	—	—	105.6	104.1	104.3	—	—	—	—	—	—	107.3	107.6	106.7	—	—
Brazil.....	49.3	65.3	89.8	91.3	91.8	—	93.0	93.1	—	91.7	95.6	96.5	96.2	94.9	94.8	94.9
China.....	—	—	79.6	81.7	80.7	85.9	—	—	—	—	—	—	—	—	26.9	—
Colombia.....	21.9	61.5	—	—	—	—	—	—	—	—	—	—	—	—	91.2	93.2
India.....	2.5	—	—	65.0	—	65.7	—	—	—	—	—	—	77.7	—	79.6	—
Indonesia.....	14.9	26.6	—	86.4	93.4	89.2	—	—	—	—	95.1	—	101.2	92.8	87.5	89.9
Latvia.....	83.4	86.1	—	—	—	—	—	—	—	—	—	—	—	—	98.2	97.8
Russian Federation.....	73.4	75.8	—	83.3	84.6	94.2	90.4	81.5	—	—	93.8	93.5	93.1	92.1	92.7	93.2
Saudi Arabia.....	—	17.3	—	—	—	—	—	—	—	—	—	—	—	—	79.3	88.0
South Africa.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	76.8	—

—Not available.

¹Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year.

²Excludes the German-speaking Community of Belgium.

NOTE: For each country, this table shows the number of persons in each age group who are enrolled in that country as a percentage of that country's total population in the specified age group. However, some of a country's population may be enrolled in a different

country, and some persons enrolled in the country may be residents of a different country. Enrollment rates may be underestimated for countries such as Luxembourg that are net exporters of students and may be overestimated for countries that are net importers. If a country enrolls many residents of other countries, the country's total population in the specified age group can be smaller than the total number enrolled, resulting in enrollment estimates exceeding 100 percent.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2002 through 2015. (This table was prepared November 2015.)

Table 601.40. Percentage of 15- to 29-year-olds enrolled in school, by selected levels of education, age, and country: 2013

Country	All levels of education ¹							Secondary education ²						Total tertiary education (postsecondary degree programs) ³			
	15 years old	16 years old	17 years old	18 years old	19 years old	20 years old	20 to 29 years old	15 years old	16 years old	17 years old	18 years old	19 years old	20 years old	17 years old	18 years old	19 years old	20 years old
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
OECD average⁴	97.3	94.4	90.5	75.1	58.4	51.4	28.3	97.0	94.1	88.4	56.6	25.8	12.6	1.6	17.1	30.9	37.3
Australia.....	100.9	98.3	89.6	74.2	70.2	66.2	34.0	100.8	97.8	82.9	39.1	23.9	19.4	5.6	31.9	42.7	43.5
Austria.....	94.7	91.0	88.6	74.0	51.2	41.2	26.6	94.7	90.9	74.6	44.0	19.2	8.5	13.3	28.8	30.3	30.9
Belgium.....	99.6	99.2	98.4	83.4	79.6	77.1	34.2	99.4	99.0	97.2	50.7	26.5	15.3	1.0	30.3	49.1	53.3
Canada.....	92.7	91.0	79.8	56.2	49.5	44.9	22.0	92.7	90.9	76.9	26.7	11.0	6.6	2.8	29.5	38.5	38.3
Chile.....	94.7	93.9	89.2	62.8	55.3	51.3	28.4	93.1	93.1	88.6	33.6	10.4	4.0	0.2	29.0	44.7	47.3
Czech Republic.....	99.8	97.8	95.6	89.5	72.5	56.6	26.0	99.7	97.8	95.4	88.3	49.3	14.3	0.1	1.2	23.2	42.3
Denmark.....	99.1	95.1	90.9	86.9	66.0	55.0	44.9	98.9	95.1	90.9	86.4	58.0	32.6	#	0.5	8.0	22.4
Estonia.....	98.4	97.4	93.6	85.5	65.2	56.4	29.7	98.3	97.4	93.4	79.0	22.7	9.4	0.2	5.6	35.3	39.2
Finland.....	98.1	94.8	94.8	94.1	50.7	47.6	41.3	98.1	94.8	94.6	93.2	33.8	18.4	0.1	0.9	16.9	29.1
France.....	98.1	93.7	90.3	77.1	63.9	52.9	21.0	97.4	92.9	87.0	40.0	16.3	6.9	2.6	35.8	46.6	45.4
Germany.....	98.2	97.4	93.3	85.0	72.9	62.7	33.5	98.1	96.1	89.5	75.1	40.4	22.6	0.3	4.6	15.1	24.2
Greece.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hungary.....	97.3	94.2	93.0	84.4	70.3	60.3	27.3	97.1	94.1	92.6	72.3	31.8	13.1	0.3	6.3	23.3	33.7
Iceland.....	99.1	96.0	90.2	82.5	73.9	54.0	40.4	99.1	96.0	90.1	81.9	69.7	33.2	#	0.5	4.3	20.5
Ireland.....	101.3	101.3	97.7	106.9	74.1	66.5	22.1	101.2	101.1	89.6	47.1	4.2	1.2	4.4	31.5	56.7	57.1
Israel.....	96.6	94.7	89.6	25.7	14.8	15.3	22.2	96.2	94.3	89.2	17.4	1.5	0.8	0.4	8.2	12.8	13.9
Italy.....	99.6	97.1	91.7	78.6	23.9	39.7	25.2	99.6	96.7	91.0	77.4	21.6	8.0	#	#	2.3	30.9
Japan.....	99.2	96.1	95.6	4.0	1.0	#	—	99.2	96.1	95.6	3.1	1.0	#	—	—	—	—
Korea, Republic of.....	99.7	96.8	96.3	70.3	74.1	70.3	31.4	99.7	96.8	95.2	7.6	0.4	0.1	1.0	62.7	73.8	70.2
Luxembourg ⁵	97.3	86.5	81.9	72.0	50.6	35.0	12.8	97.3	86.5	81.7	69.5	41.7	24.5	0.2	2.3	8.5	9.8
Mexico.....	71.1	65.9	57.1	41.1	34.1	30.1	14.0	70.4	65.9	54.4	23.4	10.4	5.6	2.7	17.7	23.7	24.5
Netherlands.....	99.2	98.5	96.0	86.3	77.5	68.2	31.3	99.1	98.3	89.1	62.7	42.0	27.1	6.8	23.5	35.5	41.1
New Zealand.....	101.9	102.1	91.9	66.9	58.6	53.6	27.5	101.8	101.2	86.9	28.2	10.4	6.4	2.5	31.4	41.3	42.0
Norway.....	100.3	95.3	92.7	89.6	57.0	52.5	30.3	100.3	95.3	92.7	89.3	39.5	19.9	#	0.4	17.3	32.2
Poland.....	96.4	96.7	95.7	92.5	71.7	65.9	33.0	95.8	96.5	95.4	92.3	42.2	12.1	0.1	0.1	24.7	45.0
Portugal.....	101.5	100.5	94.8	80.6	65.4	56.5	24.2	99.0	99.2	93.5	53.6	29.1	15.5	0.5	25.6	34.6	39.5
Slovak Republic.....	97.8	93.2	90.0	84.2	62.8	45.6	20.8	97.1	92.9	89.7	77.7	33.1	5.6	#	3.0	23.6	36.3
Slovenia.....	97.8	97.5	96.3	92.1	78.2	66.5	33.6	97.8	97.4	96.3	87.6	25.1	8.7	#	4.5	53.0	57.8
Spain.....	97.3	95.5	91.8	80.2	71.8	63.9	29.3	96.7	95.5	91.6	45.8	28.5	18.2	#	34.0	43.1	45.5
Sweden.....	99.3	99.7	98.4	96.3	43.0	40.0	34.9	99.3	99.6	98.0	94.9	24.5	13.3	0.2	1.1	16.7	23.9
Switzerland.....	97.9	93.2	91.3	84.6	62.8	46.2	26.3	97.8	92.8	90.1	79.7	50.4	24.8	0.4	3.8	11.2	20.1
Turkey.....	87.8	81.9	73.5	55.2	47.2	51.1	30.9	86.4	80.4	69.9	31.3	7.3	5.8	2.2	23.9	39.9	45.3
United Kingdom.....	99.1	93.8	90.3	67.2	58.6	53.1	21.0	99.1	93.4	88.0	38.5	19.9	12.9	2.3	28.8	38.7	40.2
United States.....	98.8	89.4	88.1	69.2	59.9	49.1	26.0	98.8	89.1	86.9	29.6	5.6	#	1.1	38.2	52.0	47.0
Other reporting countries																	
Brazil.....	92.6	88.5	73.7	50.1	40.3	32.9	19.7	89.9	86.3	66.6	33.9	19.5	11.3	4.8	13.1	18.0	19.2
Colombia.....	82.7	73.6	53.9	41.7	32.9	29.3	16.9	79.5	68.3	39.0	18.7	8.4	4.8	13.6	22.0	23.8	23.9
Indonesia.....	92.6	80.9	83.2	54.1	43.0	30.5	12.6	92.6	80.9	83.2	46.7	14.2	4.0	#	7.4	28.9	26.5
Latvia.....	98.7	98.6	98.3	93.0	82.5	58.8	28.2	97.6	98.0	97.4	90.2	43.0	12.7	0.3	2.5	36.7	43.7
Russian Federation.....	96.4	91.3	92.3	76.7	65.8	52.9	20.1	87.7	58.1	38.2	3.5	0.1	#	39.9	60.7	59.8	50.5
Saudi Arabia.....	101.1	94.6	90.4	48.0	20.4	15.9	4.8	97.1	94.3	90.1	47.7	20.1	15.7	—	—	—	—

—Not available.

#Rounds to zero.

¹In addition to secondary and tertiary education, may include enrollment in the following International Standard Classification of Education (ISCED) 2011 education levels that are not shown separately: level 1 (primary or elementary education) and level 4 (nontertiary education that typically corresponds to postsecondary vocational programs below the associate's degree level in the United States).

²Refers to ISCED 2011 level 2 (lower secondary education) and level 3 (upper secondary education). Secondary education generally corresponds to grades 7–12 in the United States.

³Total tertiary education corresponds to all postsecondary programs leading to associate's and higher degrees in the United States. Tertiary education includes ISCED 2011 level 5 (corresponding to U.S. programs at the associate's degree level), level 6 (bachelor's or equivalent level), level 7 (master's or equivalent level), and level 8 (doctoral or equivalent level). Enrollment rates may not be directly comparable across countries due to differing definitions of tertiary education and the age at which it begins.

⁴Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally.

⁵Tertiary students from Luxembourg generally study for no more than 1 year in Luxembourg and must complete their studies in other countries.

NOTE: For each country, this table shows the number of persons at a given age who are enrolled in that country as a percentage of that country's total population at the specified age. If a country enrolls many residents of other countries, the country's total population at the specified age can be smaller than the total number enrolled, resulting in enrollment estimates exceeding 100 percent. Conversely, if a country has many residents who are enrolled outside of the country, the country's enrollment rates may be underestimated. Enrollment estimates can also be affected if population and enrollment data were collected at different times. Includes both full-time and part-time students.

SOURCE: Organization for Economic Cooperation and Development (OECD), Online Education Database, retrieved April 5, 2016, from <http://stats.oecd.org/Index.aspx>. (This table was prepared April 2016.)

Table 601.50. Pupil/teacher ratios in public and private elementary and secondary schools, by level of education and country: Selected years, 2000 through 2013

Country	Elementary school										Junior high school (lower secondary)										Senior high school (upper secondary)									
	2000	2005	2009	2010	2011	2012	2013	2000	2005	2009	2010	2011	2012	2013	2000	2005	2009	2010	2011	2012	2013	2000	2005	2009	2010	2011	2012	2013		
1																														
OECD average ¹	17.7	17.0	16.0	15.9	15.4	15.1	15.2	—	14.0	13.5	13.6	13.3	13.3	13.4	13.7	13.5	13.4	13.6	13.7	13.7	13.4	13.7	13.5	13.4	13.6	13.7	13.5	13.7	13.5	
Australia.....	17.3	16.2	15.8	15.7	15.6	15.5	15.6	—	10.6	9.6	9.3	9.1	9.0	9.0	—	12.1	12.0	12.0	12.0	12.0	12.0	12.1	12.0	12.0	12.0	12.0	12.0	12.0	12.0	
Austria.....	17.3	16.2	15.8	15.7	15.6	15.5	15.6	—	10.6	9.6	9.3	9.1	9.0	9.0	—	12.1	12.0	12.0	12.0	12.0	12.0	12.1	12.0	12.0	12.0	12.0	12.0	12.0	12.0	
Belgium.....	15.0 ⁴	12.8	12.5	12.4	12.5	12.5	12.7	—	9.4	8.7	8.1	8.1	8.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Canada.....	18.1	12.8	12.5	12.4	12.3	12.5	12.7	—	25.9	22.4	20.9	20.6	20.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Chile.....	—	25.9	22.4	24.6	23.1	22.1	22.5	—	25.9	22.4	20.9	20.6	20.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Czech Republic.....	19.7	17.5	18.4	18.7	18.7	18.9	18.8	14.7	13.5	11.5	11.2	11.1	11.1	11.2	11.5	12.8	12.2	12.1	11.7	11.7	11.3	13.7	13.5	13.4	13.6	13.7	13.5	13.7	13.5	
Denmark.....	10.4	—	16.2	16.2	16.2	16.2	16.2	14.7	13.5	11.5	11.2	11.1	11.1	11.2	11.5	12.8	12.2	12.1	11.7	11.7	11.3	13.7	13.5	13.4	13.6	13.7	13.5	13.7	13.5	
Estonia.....	16.9	15.9	15.6	15.6	15.6	15.6	15.6	14.7	13.5	11.5	11.2	11.1	11.1	11.2	11.5	12.8	12.2	12.1	11.7	11.7	11.3	13.7	13.5	13.4	13.6	13.7	13.5	13.7	13.5	
Finland.....	19.8	19.4	19.7	19.7	19.7	19.7	19.7	14.7	13.5	11.5	11.2	11.1	11.1	11.2	11.5	12.8	12.2	12.1	11.7	11.7	11.3	13.7	13.5	13.4	13.6	13.7	13.5	13.7	13.5	
France.....	19.8	18.8	17.4	16.7	16.3	16.0	15.6	15.7	15.5	15.1	14.9	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	
Germany.....	13.4	11.1	10.7	10.8	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	
Greece.....	10.9	10.6	10.7	10.8	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	
Hungary.....	10.9	10.6	10.7	10.8	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	
Iceland.....	21.5	17.9	15.9	15.9	15.7	16.2	16.4	—	11.3	10.8	10.7	10.5	10.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Ireland.....	21.5	17.9	15.9	15.9	15.7	16.2	16.4	—	11.3	10.8	10.7	10.5	10.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Israel.....	11.0	17.3	17.0	20.6	15.9	15.2	15.3	13.4	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	
Italy.....	20.9	19.4	18.6	18.4	18.1	17.7	17.4	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	
Japan.....	32.1	28.0	25.5	21.1	19.6	18.4	17.3	21.5	20.8	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	
Korea, Republic of ..	15.9 ¹⁰	—	11.6	10.1	9.9	9.2	8.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Luxembourg.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Mexico.....	27.2	28.3	28.1	28.1	28.1	28.0	27.7	34.8	33.7	33.0	32.7	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	
Netherlands.....	16.8 ⁴	15.9 ⁴	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	
New Zealand.....	20.6	18.1	16.9	16.2	16.3	16.4	16.4	19.9	16.8	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	
Norway.....	12.4	10.7	10.2	10.0	10.5	10.3	10.3	11.5	12.7	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	
Poland.....	12.7	11.7	10.2	10.0	11.0	11.3	11.1	11.3	12.7	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	
Portugal.....	12.1	10.8	11.3	10.9	11.6	11.9	12.2	10.4	8.2	7.6	7.9	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	
Slovak Republic.....	18.3	18.0	16.7	16.2	16.3	16.3	16.3	13.5	11.1	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	
Slovenia.....	13.0	13.0	13.0	13.0	13.0	13.0	13.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Spain.....	14.9	14.3	13.3	13.2	13.2	13.4	13.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Sweden.....	12.8	12.2	12.1	11.7	11.3	11.8	12.7	12.8	12.0	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	
Switzerland ¹⁰	30.5	14.6	15.4	14.9	21.0	20.1	19.8	—	11.7	12.0	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	
Turkey.....	21.2	20.7	19.9	19.8	19.9	20.1	20.7	17.6 ²	17.0	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	
United Kingdom.....	15.8	14.9	14.8	14.5	15.3	15.3	15.3	16.3	15.1	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	
United States.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Other reporting countries																														
Argentina.....	22.7 ^{10,12}		16.0 ¹³	23.4	22.5	21.7	21.2	13.2 ^{10,12}	18.1	15.3 ¹³	20.4	19.8	19.1	18.5	9.0 ^{10,12}	17.6	8.8 ¹³	17.3	8.8 ¹³	16.9	16.2	157	157	157	157	157	157	157	157	
Brazil.....	26.2 ¹²		24.0	17.2	17.1	17.5	16.9	3.6 ¹²	—	21.0	15.0	14.6	12.8	13.4	38.7 ¹²	18.1	18.2	18.4	18.4	18.4	16.2	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	
China.....	20.2 ¹²		17.6	—	—	—	25.0	17.6 ¹²	—	15.6	—	—	—	26.6	9.7 ¹²	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Colombia.....	20.2 ¹²		17.6	—	—	—	25.0	17.6 ¹²	—	15.6	—	—	—	26.6	9.7 ¹²	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Indonesia.....	43.0 ¹⁴		20.8	19.9	20.3	25.2	20.7	19.6 ¹⁴	—	15.9	17.0	18.3	21.6	18.0	17.8 ¹⁴	—	16.8	16.1	20.1	20.1	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22	

Table 601.60. Teachers' statutory teaching and total working time and average class size in public elementary and secondary schools, by level of education and country: 2013

Country	Statutory teaching and total working time												Average class size	
	Number of weeks teaching			Number of days teaching			Net teaching time in hours			Total working time in hours				
	Elementary school	Junior high school (lower secondary) ¹	Senior high school (upper secondary) ¹	Elementary school	Junior high school (lower secondary) ¹	Senior high school (upper secondary) ¹	Elementary school	Junior high school (lower secondary) ¹	Senior high school (upper secondary) ¹	Elementary school	Junior high school (lower secondary) ¹	Senior high school (upper secondary) ¹	Elementary school	Junior high school (lower secondary) ¹
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
OECD average ²	38	37	37	183	182	181	772	694	643	1,600	1,618	1,603	21	24
Australia ³	40	40	40	196	196	194	879	821	812	†	†	†	23	23
Austria ³	38	38	38	180	180	180	779	607	589	1,776	1,776	†	18	21
Belgium (Flemish) ³	37	37	37	177	179	179	752	669	625	†	†	†	—	—
Belgium (French) ³	37	37	37	181	181	181	721	661	601	962	†	†	20	—
Canada ³	37	37	37	183	183	183	796	743	745	†	†	†	—	—
Chile ⁴	38	38	38	181	181	181	1,129	1,129	1,129	1,989	1,989	1,989	29	31
Czech Republic ³	39	39	39	188	188	188	827	620	592	1,760	1,760	1,760	20	22
Denmark ⁵	†	†	†	†	†	†	662	662	369 ⁶	1,680	1,680	1,680	21	21
England ⁵	38	38	38	190	190	190	722	745	745	1,265	1,265	1,265	—	—
Estonia ⁴	35	35	35	172	172	172	619	619	568	1,540	1,540	1,540	17	15
Finland ⁷	38	38	38	188	188	188	677	592	550	†	†	†	19	20
France ³	36	36	36	144	†	†	924	648	648	1,607	1,607	1,607	23	25
Germany ³	40	40	40	193	193	193	800	752	715	1,768	1,768	1,768	21	24
Greece ³	35	31	31	171	152	152	569	415	415	†	†	†	17	22
Hungary ⁷	36	36	36	182	182	181	601	601	597	1,864	1,864	1,864	21	21
Iceland ³	37	37	35	180	180	170	624	624	544	1,800	1,800	1,800	19	20
Ireland ³	37	33	33	183	167	167	915	735	735	†	†	†	25	—
Israel ³	38	36	36	182	175	175	840	644	570	1,225	985	811	28	29
Italy ³	39	39	39	171	171	171	752	616	616	—	—	—	19	22
Japan ⁵	40	40	39	201	202	197	736	608	513	1,899	1,899	1,899	27	32
Korea, Republic of ⁷	38	38	38	190	190	190	667	557	549	1,520	1,520	1,520	24	33
Luxembourg ³	36	36	36	176	176	176	810	739	739	†	†	†	15	19
Mexico ³	42	42	36	200	200	171	800	1,047	838	†	†	†	20	28
Netherlands ⁴	40	—	—	195	—	—	930	750	750	1,659	1,659	1,659	23 ⁸	—
New Zealand ³	38	38	38	192	191	190	922	841	760	†	†	†	—	—
Norway ⁴	38	38	38	190	190	190	741	663	523	1,688	1,688	1,688	—	—
Poland ⁵	38	37	37	184	182	179	629	555	551	1,504	1,488	1,472	19	23
Portugal ⁴	36	36	36	166	166	166	747	609	609	1,282	1,282	1,282	21	22
Scotland ⁴	38	38	38	190	190	190	855	855	855	1,365	1,365	1,365	—	—
Slovak Republic ³	38	38	38	187	187 ³	187	832	645	617	1,568	1,568	1,568	18	19
Slovenia ³	40	40	40	190	190	190	627	627	570	—	—	—	19	20
Spain ³	37	37	36	176	176	171	880	713	693	1,425	1,425	1,425	21	25
Sweden ³	†	†	†	†	†	†	†	†	†	1,767	1,767	1,767	—	—
Switzerland	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Turkey ³	38	38	38	180	180	180	720	504	504	1,576	1,576	1,576	23	28
United Kingdom	—	—	—	—	—	—	—	—	—	—	—	—	27	20
United States ⁵	36	36	36	180	180	180	—	981	—	1,922	1,936	1,960	22	28
Other reporting countries														
Brazil	42	42	42	203	203	203	—	—	—	—	—	—	25	28
China	—	—	—	—	—	—	—	—	—	—	—	—	37	50
Colombia ³	40	40	40	200	200	200	1,000	1,200	1,200	1,600	1,600	1,600	24	30
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—	26	31
Latvia	35	35	35	165	165	165	825	825	990	1,760	1,760	1,760	16	15
Russian Federation ⁵	34	35	35	170	210	210	561	483	483	—	—	—	18	19

—Not available.

†Not applicable according to the Organization for Economic Cooperation and Development (OECD).

¹General programs only.

²Refers to the mean of the data values for all reporting OECD countries, to which each country or country component reporting data contributes equally.

³Typical teaching time reported.

⁴Maximum teaching time reported.

⁵Actual teaching time reported.

⁶Data from 2011 reported for 2013.

⁷Minimum teaching time reported.

⁸Data for government-dependent private institutions are included.

NOTE: In this table, elementary school corresponds to International Standard Classification of Education (ISCED) 2011 level 1 (U.S. grades 1 through 6), junior high school corresponds to ISCED 2011 level 2 (U.S. grades 7 through 9), and senior high school corresponds to ISCED 2011 level 3 (U.S. grades 10 through 12).

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2015. (This table was prepared February 2016.)

Table 602.10. Average reading literacy scale scores of fourth-graders and percentage whose schools emphasize reading skills and strategies at or before second grade or at third grade, by sex and country or other education system: 2001, 2006, and 2011
[Standard errors appear in parentheses]

	Average reading literacy scale score ²						Percent of fourth-graders in 2011, by grade at which reading skills and strategies emphasized ³							
			2011											
Country or other education system ¹	2001	2006	Total	Male	Female	At or before second grade	At third grade							
1	2	3	4	5	6	7	8							
PIRLS average⁴	500	(†)	500	(†)	500	(†)	504	(0.5)	520	(0.5)	28	(0.5)	68	(0.5)
Australia.....	—	(†)	—	(†)	527	(2.2)	519	(2.7)	536	(2.7)	73	(4.0)	27	(4.0)
Austria.....	—	(†)	538	(2.2)	529	(2.0)	525	(2.3)	533	(2.2)	29	(4.2)	71	(4.2)
Azerbaijan ⁵	—	(†)	—	(†)	462 ⁶	(3.3)	456 ⁶	(3.5)	470 ⁶	(3.6)	19	(3.6)	79	(3.8)
Belgium (French)-BEL.....	—	(†)	500	(2.6)	506 ^{6,7}	(2.9)	504 ^{6,7}	(3.1)	509 ^{6,7}	(3.1)	29	(5.0)	70	(5.1)
Bulgaria.....	550	(3.8)	547	(4.4)	532	(4.1)	524	(4.3)	539	(4.5)	25	(3.5)	74	(3.6)
Canada.....	—	(†)	—	(†)	548 ⁶	(1.6)	542 ⁶	(2.1)	555 ⁶	(1.7)	55	(2.7)	44	(2.7)
Chinese Taipei-CHN.....	—	(†)	535	(2.0)	553	(1.9)	546	(2.1)	561	(2.1)	17	(3.0)	80	(3.0)
Colombia.....	422	(4.4)	—	(†)	448	(4.1)	448	(4.6)	447	(4.6)	13	(3.3)	81	(3.6)
Croatia.....	—	(†)	—	(†)	553 ⁶	(1.9)	546 ⁶	(2.2)	560 ⁶	(2.1)	31	(4.1)	68	(4.2)
Czech Republic.....	537	(2.3)	—	(†)	545	(2.2)	542	(2.5)	549	(2.5)	24	(3.8)	74	(4.0)
Denmark.....	—	(†)	546	(2.3)	554 ⁶	(1.7)	548 ⁶	(2.1)	560 ⁶	(1.9)	21	(2.4)	79	(2.4)
England-GBR.....	553 ^{4,5}	(3.4)	539	(2.6)	552 ⁷	(2.6)	540 ⁷	(3.1)	563 ⁷	(3.0)	84	(3.3)	15	(3.2)
Finland.....	—	(†)	—	(†)	568	(1.9)	558	(2.2)	578	(2.3)	10	(2.6)	87	(2.8)
France.....	525	(2.4)	522	(2.1)	520	(2.6)	518	(2.4)	522	(3.4)	18	(3.3)	81	(3.4)
Georgia ⁵	—	(†)	471 ^{6,8}	(3.1)	488 ⁸	(3.1)	477 ⁸	(4.0)	499 ⁸	(2.7)	20	(2.8)	79	(2.9)
Germany.....	539	(1.9)	548	(2.2)	541	(2.2)	537	(2.7)	545	(2.3)	30	(3.4)	69	(3.3)
Hong Kong-CHN.....	528	(3.1)	564	(2.4)	571 ⁹	(2.3)	563 ⁹	(2.5)	579 ⁹	(2.3)	16	(3.5)	81	(3.8)
Hungary.....	543	(2.2)	551	(3.0)	539	(2.9)	532	(3.2)	547	(3.2)	28	(4.1)	71	(4.0)
Indonesia.....	—	(†)	405	(4.1)	428	(4.2)	419	(4.3)	437	(4.5)	†	(†)	88	(3.2)
Iran, Islamic Republic of.....	414	(4.2)	421	(3.1)	457	(2.8)	448	(4.3)	467	(4.3)	7	(1.6)	85	(2.4)
Ireland.....	—	(†)	—	(†)	552	(2.3)	544	(3.0)	559	(2.9)	40	(4.0)	60	(4.0)
Israel.....	509 ¹⁰	(2.8)	512 ¹⁰	(3.3)	541 ⁹	(2.7)	538 ⁹	(3.4)	544 ⁹	(3.1)	59	(4.7)	41	(4.7)
Italy.....	541	(2.4)	551	(2.9)	541	(2.2)	540	(2.7)	543	(2.4)	15	(2.5)	84	(2.5)
Lithuania.....	543 ⁸	(2.6)	537 ⁸	(1.6)	528 ^{6,8}	(2.0)	520 ^{6,8}	(2.4)	537 ^{6,8}	(2.4)	23	(3.3)	76	(3.4)
Malta.....	—	(†)	—	(†)	477	(1.4)	468	(2.0)	486	(1.9)	14	(0.1)	86	(0.1)
Morocco.....	350 ¹¹	(9.6)	323	(5.9)	310 ¹²	(3.9)	296 ¹²	(4.6)	326 ¹²	(4.0)	†	(†)	48	(4.0)
Netherlands.....	554 ⁷	(2.5)	547 ⁷	(1.5)	546 ⁷	(1.9)	543 ⁷	(2.2)	549 ⁷	(2.1)	22 ¹³	(4.4)	78 ¹³	(4.4)
New Zealand.....	529	(3.6)	532	(2.0)	531	(1.9)	521	(2.7)	541	(2.2)	73	(3.6)	27	(3.6)
Northern Ireland-GBR.....	—	(†)	—	(†)	558 ⁷	(2.4)	550 ⁷	(3.2)	567 ⁷	(2.5)	55 ¹³	(4.6)	45 ¹³	(4.6)
Norway.....	499	(2.9)	498 ¹³	(2.6)	507 ¹¹	(1.9)	500 ¹¹	(2.7)	514 ¹¹	(2.2)	14	(3.4)	83	(3.9)
Oman.....	—	(†)	—	(†)	391 ¹⁴	(2.8)	371 ¹⁴	(3.4)	411 ¹⁴	(3.0)	4	(0.9)	86	(2.0)
Poland.....	—	(†)	519	(2.4)	526	(2.1)	519	(2.7)	533	(2.5)	6 ¹	(2.1)	94	(2.1)
Portugal.....	—	(†)	—	(†)	541	(2.6)	534	(2.8)	548	(3.0)	25	(4.1)	75	(4.1)
Qatar.....	—	(†)	353	(1.1)	425 ⁶	(3.5)	411 ⁶	(4.2)	441 ⁶	(4.7)	24	(3.0)	66	(3.4)
Romania.....	512	(4.6)	489	(5.0)	502	(4.3)	495	(4.3)	510	(4.8)	14	(3.4)	85	(3.5)
Russian Federation.....	528 ⁶	(4.4)	565 ⁶	(3.4)	568	(2.7)	559	(3.1)	578	(2.8)	50	(3.7)	50	(3.7)
Saudi Arabia.....	—	(†)	—	(†)	430	(4.4)	402	(8.2)	456	(3.1)	7	(1.7)	78	(3.5)
Singapore.....	528	(5.2)	558	(2.9)	567 ⁶	(3.3)	559 ⁶	(3.6)	576 ⁶	(3.5)	46	(#)	54	(#)
Slovak Republic.....	518	(2.8)	531	(2.8)	535	(2.8)	530	(2.8)	540	(3.1)	24	(3.2)	76	(3.3)
Slovenia.....	502	(2.0)	522	(2.1)	530	(2.0)	523	(2.7)	539	(2.2)	8	(1.8)	87	(2.4)
Spain.....	—	(†)	513	(2.5)	513	(2.3)	511	(2.8)	516	(2.5)	29	(3.2)	71	(3.2)
Sweden.....	561	(2.2)	549	(2.3)	542	(2.1)	535	(2.5)	549	(2.4)	37 ¹³	(4.5)	63 ¹³	(4.5)
Trinidad and Tobago.....	—	(†)	436	(4.9)	471	(3.8)	456	(4.3)	487	(4.5)	32	(3.8)	66	(4.0)
United Arab Emirates.....	—	(†)	—	(†)	439	(2.2)	425	(3.5)	452	(3.0)	15	(1.3)	68	(2.2)
United States.....	542 ^{6,7}	(3.8)	540 ⁷	(3.5)	556 ⁶	(1.5)	551 ⁶	(1.7)	562 ⁶	(1.9)	75 ¹³	(2.7)	24 ¹³	(2.7)
Benchmarking education systems														
Abu Dhabi-UAE.....	—	(†)	—	(†)	424	(4.7)	406	(6.3)	442	(5.5)	11	(2.6)	61	(4.4)
Alberta-CAN.....	—	(†)	560 ⁶	(2.4)	548 ⁶	(2.9)	543 ⁶	(3.1)	553 ⁶	(3.1)	52	(4.5)	48	(4.5)
Andalusia-ESP.....	—	(†)	—	(†)	515	(2.3)	511	(2.8)	519	(2.4)	26	(3.6)	74	(3.6)
Dubai-UAE.....	—	(†)	—	(†)	476	(2.0)	470	(3.5)	483	(3.9)	28	(0.3)	66	(0.3)
Florida-USA ¹⁵	—	(†)	—	(†)	569 ^{8,10}	(2.9)	561 ^{8,10}	(3.0)	576 ^{8,10}	(3.4)	82 ¹³	(4.7)	18 ¹³	(4.7)
Maltese-MLT.....	—	(†)	—	(†)	457	(1.5)	445	(2.2)	470	(2.0)	14	(0.1)	86	(0.1)
Ontario-CAN.....	548 ⁶	(3.3)	555 ⁶	(2.7)	552 ⁶	(2.6)	546 ⁶	(2.8)	558 ⁶	(3.3)	75	(4.0)	25	(4.0)
Quebec-CAN.....	537	(3.0)	533	(2.8)	538	(2.1)	531	(2.4)	544	(2.6)	23	(3.9)	75	(4.1)

—Not available.

†Not applicable.

#Rounds to zero.

!Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 and 50 percent.

‡Reporting standards not met. The coefficient of variation (CV) for this estimate is 50 percent or greater.

¹Most of the education systems represent complete countries, but some represent subnational entities such as U.S. states, Canadian provinces, and England (which is part of the United Kingdom). The name of each subnational entity appears in italics and includes as a suffix the three-letter International Organization for Standardization (ISO) abbreviation for its complete country. Examples include *Florida-USA*, *Ontario-CAN*, and *England-GBR*.²Progress in International Reading Literacy Study (PIRLS) scores are reported on a scale from 0 to 1,000, with the scale average set at 500 and the standard deviation set at 100.³Based on principals' reports of the earliest grade at which each of 11 reading skills and strategies first receive a major emphasis in instruction. A school is counted as emphasizing reading skills and strategies at a certain grade (or before) only if its principal reported that all 11 skills and strategies are emphasized at that grade (or before). A small percentage of fourth-graders (1 percent in the United States) are not shown because their schools first emphasized reading skills and strategies at fourth grade or later.⁴The PIRLS average includes only education systems that are members of the International Association for the Evaluation of Educational Achievement (IAE), which develops and implements PIRLS

at the international level. "Benchmarking" education systems are not members of the IEA and are therefore not included in the average.

⁵Exclusion rates for Azerbaijan and Georgia are slightly underestimated as some conflict zones were not covered and no official statistics were available for 2011.⁶National Defined Population covers 90 percent to 95 percent of National Target Population.⁷Met guidelines for sample participation rates only after replacement schools were included.⁸National Target Population does not include all of the International Target Population.⁹National Defined Population covers less than 90 percent of National Target Population.¹⁰National Defined Population covers less than 80 percent of National Target Population.¹¹Nearly satisfied guidelines for sample participation rates after replacement schools were included.¹²The TIMSS & PIRLS International Study Center has reservations about the reliability of the average achievement score because the percentage of students with achievement too low for estimation exceeds 25 percent.¹³Data are available for at least 70 percent but less than 85 percent of students.¹⁴The TIMSS & PIRLS International Study Center has reservations about the reliability of the average achievement score because the percentage of students with achievement too low for estimation exceeds 15 percent, though it is less than 25 percent.¹⁵All data for Florida are based on public schools only.

SOURCE: International Association for the Evaluation of Educational Achievement (IEA), Progress in International Reading Literacy Study (PIRLS), 2001, 2006, and 2011. (This table was prepared February 2013).

Table 602.20. Average fourth-grade scores and annual instructional time in mathematics and science, by country or other education system: 2011
[Standard errors appear in parentheses]

Country or other education system ¹	Total instructional hours per year	Mathematics				Science			
		Average score ²	Instructional time in mathematics		Average score ²	Instructional time in science			
			Hours per year	As a percent of total instructional hours		Hours per year	As a percent of total instructional hours		
1	2	3	4	5	6	7	8		
TIMSS average³	897 (2.0)	500 (†)	162 (0.5)	18 (0.1)	500 (†)	85 (0.5)	10 (0.1)		
Armenia	851 ⁴ (17.1)	452 (3.5)	139 ⁴ (1.7)	16 (0.2)	416 (3.8)	54 ⁵ (0.6)	6 (0.1)		
Australia	1,008 (6.9)	516 (2.9)	230 ⁵ (5.8)	23 (0.6)	516 (2.8)	65 ⁵ (2.3)	6 (0.2)		
Austria	808 (6.9)	508 (2.6)	146 (2.1)	18 (0.3)	532 (2.8)	96 (2.3)	12 (0.3)		
Azerbaijan ^{6,7}	804 (27.7)	463 (5.8)	130 (3.3)	18 (0.7)	438 (5.6)	61 (1.4)	8 (0.3)		
Bahrain	964 (10.8)	436 (3.3)	131 ⁴ (4.4)	14 (0.4)	449 (3.5)	85 ⁴ (2.7)	9 (0.3)		
Belgium (Flemish)-BEL	1,010 ⁴ (16.8)	549 (1.9)	224 ⁴ (4.1)	21 (0.3)	509 (2.0)	— (†)	— (†)		
Chile	1,228 ⁴ (22.6)	462 (2.3)	231 ⁵ (6.7)	19 (0.6)	480 (2.4)	161 ⁵ (6.4)	13 (0.5)		
Chinese Taipei-CHN	989 ⁴ (13.4)	591 (2.0)	133 (3.9)	12 (0.4)	552 (2.2)	90 (2.3)	9 (0.3)		
Croatia ⁸	776 (19.4)	490 (1.9)	134 (2.3)	18 (0.4)	516 (2.1)	95 (2.4)	13 (0.4)		
Czech Republic	782 (8.2)	511 (2.4)	163 (3.0)	21 (0.4)	536 (2.5)	60 (2.2)	8 (0.3)		
Denmark ⁶	863 ⁴ (9.4)	537 (2.6)	124 ⁵ (2.0)	15 (0.3)	528 (2.8)	62 ⁵ (1.9)	7 (0.2)		
England-GBR	970 ⁴ (8.3)	542 (3.5)	188 ⁵ (3.3)	19 (0.4)	529 (2.9)	76 ⁵ (3.2)	8 (0.3)		
Finland	779 (9.8)	545 (2.3)	139 (2.5)	18 (0.4)	570 (2.6)	98 (1.9)	13 (0.4)		
Georgia ⁸	748 ⁴ (18.7)	450 (3.7)	148 ⁴ (3.9)	21 (0.6)	455 (3.8)	110 ⁴ (2.7)	16 (0.4)		
Germany	863 ⁴ (11.2)	528 (2.2)	163 ⁴ (3.1)	19 (0.3)	528 (2.9)	75 ⁵ (3.5)	8 (0.4)		
Hong Kong-CHN ⁶	1,059 ⁴ (11.2)	602 (3.4)	158 ⁴ (3.0)	15 (0.3)	535 (3.8)	88 ⁴ (4.2)	8 (0.4)		
Hungary	760 (12.2)	515 (3.4)	148 (3.3)	20 (0.5)	534 (3.7)	72 (2.2)	10 (0.3)		
Iran, Islamic Republic of	727 (11.2)	431 (3.5)	146 (3.9)	20 (0.4)	453 (3.7)	106 (3.2)	14 (0.4)		
Ireland	854 (#)	527 (2.6)	150 (2.8)	18 (0.3)	516 (3.4)	63 (6.6)	7 (0.8)		
Italy	1,085 (12.6)	508 (2.6)	214 (3.9)	20 (0.4)	524 (2.7)	78 ⁴ (1.8)	7 (0.2)		
Japan	891 (3.7)	585 (1.7)	150 (1.6)	17 (0.1)	559 (1.9)	91 (0.8)	10 (0.1)		
Kazakhstan ⁶	779 (10.6)	501 (4.5)	140 (2.7)	18 (0.4)	495 (5.1)	57 (1.3)	8 (0.2)		
Korea, Republic of	789 (11.4)	605 (1.9)	121 (3.0)	15 (0.4)	587 (2.0)	92 (2.5)	11 (0.4)		
Kuwait ⁶	928 ⁴ (23.1)	342 ⁹ (3.4)	120 ⁴ (4.9)	13 (0.4)	347 ¹⁰ (4.7)	85 ⁵ (5.8)	10 (0.6)		
Lithuania ^{6,8}	649 (9.0)	534 (2.4)	133 (2.6)	21 (0.5)	515 (2.4)	60 (1.5)	9 (0.3)		
Malta	891 ⁴ (0.2)	496 (1.3)	183 ⁴ (0.1)	21 (#)	446 (1.9)	39 ⁴ (0.1)	4 (#)		
Morocco	1,040 ⁴ (23.6)	335 ⁹ (4.0)	174 ⁵ (3.5)	17 (0.4)	264 ⁹ (4.5)	44 ⁵ (5.5)	5 (0.6)		
Netherlands ¹¹	1,074 ⁵ (9.9)	540 (1.7)	195 ⁵ (7.0)	18 (0.5)	531 (2.2)	42 ⁵ (2.4)	4 (0.2)		
New Zealand	925 (3.9)	486 (2.6)	168 (2.4)	18 (0.3)	497 (2.3)	52 ⁵ (3.0)	6 (0.3)		
Northern Ireland-GBR ¹¹	970 ⁴ (11.0)	562 (2.9)	232 ⁵ (6.1)	24 (0.6)	517 (2.6)	72 ⁵ (3.9)	8 (0.4)		
Norway ¹²	817 (10.7)	495 (2.8)	157 (4.1)	19 (0.6)	494 (2.3)	55 (2.2)	7 (0.3)		
Oman	999 ⁵ (17.4)	385 ¹⁰ (2.9)	170 ⁵ (3.1)	17 (0.3)	377 (4.3)	120 ⁵ (2.4)	12 (0.2)		
Poland	764 ⁴ (13.5)	481 (2.2)	157 ⁴ (3.0)	21 (0.5)	505 (2.6)	64 ⁴ (3.1)	8 (0.4)		
Portugal	940 ⁴ (13.1)	532 (3.4)	250 ⁴ (4.3)	27 (0.4)	522 (3.9)	162 ⁴ (4.1)	17 (0.8)		
Qatar ⁶	1,068 (9.1)	413 (3.5)	185 (6.3)	17 (0.6)	394 (4.3)	135 (6.8)	13 (0.6)		
Romania	796 (17.9)	482 (5.8)	148 (3.9)	19 (0.5)	505 (5.9)	56 (6.2)	7 (0.8)		
Russian Federation	660 ⁴ (8.0)	542 (3.7)	104 (1.0)	16 (0.2)	552 (3.5)	49 (0.7)	8 (0.2)		
Saudi Arabia	977 ⁴ (19.4)	410 (5.3)	147 ⁴ (6.6)	15 (0.5)	429 (5.4)	82 ⁴ (4.2)	8 (0.5)		
Serbia ⁶	778 (18.5)	516 (3.0)	153 (2.1)	20 (0.5)	516 (3.1)	72 (5.0)	10 (0.9)		
Singapore ⁶	1,012 (#)	606 (3.2)	208 (3.2)	21 (0.3)	583 (3.4)	96 (2.1)	9 (0.2)		
Slovak Republic	780 (8.8)	507 (3.8)	147 (1.4)	19 (0.1)	532 (3.8)	101 (4.3)	13 (0.6)		
Slovenia	684 (#)	513 (2.2)	169 (2.6)	25 (0.4)	520 (2.7)	101 (1.2)	15 (0.2)		
Spain	884 ⁴ (9.7)	482 (2.9)	167 ⁴ (2.3)	19 (0.2)	505 (3.0)	145 ⁴ (2.6)	16 (0.3)		
Sweden	849 ⁴ (11.3)	504 (2.0)	138 ⁵ (3.8)	17 (0.5)	533 (2.7)	75 ⁵ (3.0)	9 (0.4)		
Thailand	1,201 ⁴ (20.9)	458 (4.8)	167 (5.2)	14 (0.6)	472 (5.6)	109 (4.9)	9 (0.5)		
Tunisia	963 ⁴ (22.9)	359 ¹⁰ (3.9)	175 ⁴ (2.9)	19 (0.3)	346 ¹⁰ (5.3)	93 ⁴ (5.4)	10 (0.6)		
Turkey	900 (19.3)	469 (4.7)	126 (2.5)	15 (0.4)	463 (4.5)	94 (1.8)	11 (0.3)		
United Arab Emirates	1,025 ⁴ (8.5)	434 (2.0)	154 ⁵ (2.4)	15 (0.2)	428 (2.5)	108 ⁵ (3.0)	11 (0.3)		
United States ⁹	1,078 (7.3)	541 (1.8)	206 ⁴ (4.6)	19 (0.5)	544 (2.1)	105 ⁴ (3.1)	10 (0.3)		
Yemen	831 ⁴ (14.1)	248 ⁹ (6.0)	135 ⁴ (6.4)	16 (0.7)	209 ⁹ (7.3)	91 ⁴ (5.6)	11 (0.6)		
Benchmarking education systems									
Abu Dhabi-UAE	1,033 ⁴ (18.1)	417 (4.6)	150 ⁵ (4.3)	15 (0.4)	411 (4.9)	110 ⁵ (6.8)	11 (0.6)		
Alberta-CAN ⁶	1,006 (8.8)	507 (2.5)	169 ⁵ (3.2)	17 (0.4)	541 (2.4)	130 ⁵ (4.1)	13 (0.6)		
Dubai-UAE	993 ⁴ (0.7)	468 (1.6)	158 ⁵ (2.3)	16 (0.2)	461 (2.3)	99 ⁵ (1.6)	10 (0.2)		
Florida-USA ^{8,13,14}	1,073 ⁴ (19.7)	545 (2.9)	217 ⁵ (8.8)	20 (0.9)	545 (3.7)	113 ⁵ (9.6)	10 (0.8)		
North Carolina-USA ^{6,8,14}	1,113 ⁴ (22.9)	554 (4.2)	221 ⁴ (13.5)	20 (1.2)	538 (4.6)	94 ⁴ (6.0)	9 (0.4)		
Ontario-CAN	969 (7.4)	518 (3.1)	201 ⁴ (4.1)	21 (0.5)	528 (3.0)	92 ⁴ (3.2)	10 (0.3)		
Quebec-CAN	916 (5.1)	533 (2.4)	229 (5.0)	25 (0.6)	516 (2.7)	50 (1.7)	5 (0.2)		

—Not available.

†Not applicable.

#Rounds to zero.

¹Most of the education systems represent complete countries, but some represent subnational entities such as U.S. states, Canadian provinces, and England (which is part of the United Kingdom). The name of each subnational entity appears in italics and includes as a suffix the three-letter International Organization for Standardization (ISO) abbreviation for its complete country. Examples include *Florida-USA*, *Ontario-CAN*, and *England-GBR*.

²Trends in International Mathematics and Science Study (TIMSS) scores are reported on a scale from 0 to 1,000, with the scale average set at 500 and the standard deviation set at 100.

³The TIMSS average includes only education systems that are members of the International Association for the Evaluation of Educational Achievement (IAE), which develops and implements TIMSS at the international level. "Benchmarking" education systems are not members of the IAE and are therefore not included in the average.

⁴Data are available for at least 70 percent but less than 85 percent of students.

⁵Data are available for at least 50 percent but less than 70 percent of students.

⁶National Defined Population covers 90 to 95 percent of National Target Population.

⁷Exclusion rates for Azerbaijan and Georgia are slightly underestimated as some conflict zones were not covered and no official statistics were available.

⁸National Target Population does not include all of the International Target Population defined by TIMSS.

⁹The TIMSS & PIRLS International Study Center has reservations about the reliability of the average achievement score because the percentage of students with achievement too low for estimation exceeds 25 percent.

¹⁰The TIMSS & PIRLS International Study Center has reservations about the reliability of the average achievement score because the percentage of students with achievement too low for estimation exceeds 15 percent, though it is less than 25 percent.

¹¹Met guidelines for sample participation rates only after replacement schools were included.

¹²Nearly satisfied guidelines for sample participation rates after replacement schools were included.

¹³National Defined Population covers less than 90 percent of National Target Population (but at least 77 percent).

¹⁴All U.S. state data are based on public school students only.

NOTE: Countries were required to sample students in the grade that corresponded to the end of 4 years of formal schooling, providing that the mean age at the time of testing was at least 9.5 years. Instructional times shown in this table are actual or implemented times (as opposed to intended times prescribed by the curriculum). Principals reported total instructional hours per day and school days per year. Total instructional hours per year were calculated by multiplying the number of school days per year by the number of instructional hours per day. Teachers reported instructional hours per week in mathematics and science. Instructional hours per year in mathematics and science were calculated by dividing weekly instructional hours by the number of school days per week and then multiplying by the number of school days per year.

SOURCE: International Association for the Evaluation of Educational Achievement (IAE), Trends in International Mathematics and Science Study (TIMSS), 2011; *TIMSS 2011 International Results in Mathematics*, by Ina V.S. Mullis et al.; and *TIMSS 2011 International Results in Science*, by Michael O. Martin et al. (This table was prepared December 2012.)

Table 602.30. Average eighth-grade scores and annual instructional time in mathematics and science, by country or other education system: 2011

[Standard errors appear in parentheses]

Country or other education system ¹	Total instructional hours per year	Mathematics				Science			
		Average score ²	Instructional time in mathematics		As a percent of total instructional hours	Average score ²	Instructional time in science ³		As a percent of total instructional hours
			Hours per year				Hours per year		
1	2	3	4	5	6	7	8		
TIMSS average⁴	1,031 (2.3)	500 (†)	138 (0.5)	14 (0.1)	500 (†)	158 (0.8)	11 (0.1)		
Armenia.....	979 ⁵ (12.8)	467 (2.7)	143 ⁵ (3.0)	15 (0.2)	437 (3.1)	240 ⁶ (4.9)	† (†)		
Australia.....	1,039 (7.2)	505 (5.1)	143 ⁶ (3.5)	14 (0.3)	519 (4.8)	131 ⁶ (4.5)	12 (0.4)		
Bahrain.....	1,019 (1.1)	409 ⁷ (2.0)	142 ⁵ (2.5)	14 (0.3)	452 (2.0)	130 ⁵ (2.8)	13 (0.3)		
Chile.....	1,245 ⁵ (23.5)	416 (2.6)	193 ⁵ (4.5)	15 (0.3)	461 (2.5)	134 ⁵ (3.8)	11 (0.3)		
Chinese Taipei-CHN.....	1,153 (11.7)	609 (3.2)	166 (2.4)	15 (0.2)	564 (2.3)	157 (2.7)	14 (0.3)		
England-GBR ⁸	992 ⁵ (8.4)	507 (5.5)	116 ⁵ (2.1)	11 (0.3)	533 (4.9)	102 ⁶ (3.1)	10 (0.4)		
Finland.....	934 (11.7)	514 (2.5)	105 (1.8)	11 (0.2)	552 (2.5)	190 ⁵ (6.0)	† (†)		
Georgia ^{9,10}	833 ⁵ (10.8)	431 (3.8)	123 ⁵ (3.3)	15 (0.5)	420 (3.0)	198 ⁵ (6.8)	† (†)		
Ghana.....	1,153 ⁵ (18.9)	331 ¹¹ (4.3)	165 ⁵ (6.8)	14 (0.6)	306 ⁷ (5.2)	148 ⁵ (6.1)	13 (0.4)		
Hong Kong-CHN.....	1,026 ⁵ (11.3)	586 (3.8)	138 ⁵ (2.9)	13 (0.3)	535 (3.4)	103 ⁵ (4.6)	10 (0.4)		
Hungary.....	836 (12.2)	505 (3.5)	119 (1.9)	15 (0.3)	522 (3.1)	236 (4.8)	28 ! (13.1)		
Indonesia.....	1,494 ⁵ (40.9)	386 ⁷ (4.3)	173 ⁵ (7.9)	12 (0.6)	406 (4.5)	190 ⁵ (12.2)	10 (0.5)		
Iran, Islamic Republic of.....	994 (15.9)	415 ⁷ (4.3)	124 (3.3)	13 (0.3)	474 (4.0)	120 (3.6)	12 (0.4)		
Israel ¹²	1,108 ⁵ (14.1)	516 (4.1)	165 ⁵ (3.0)	15 (0.2)	516 (4.0)	132 (3.9)	12 (0.4)		
Italy.....	1,085 (9.4)	498 (2.4)	155 (2.5)	14 (0.2)	501 (2.5)	73 (1.0)	7 (0.1)		
Japan.....	1,016 (6.7)	570 (2.6)	108 (1.4)	11 (0.1)	558 (2.4)	128 (1.7)	12 (0.3)		
Jordan.....	1,041 (11.9)	406 ⁷ (3.7)	130 (3.8)	13 (0.4)	449 (4.0)	134 (3.1)	13 (0.4)		
Kazakhstan.....	920 (9.9)	487 (4.0)	117 (3.2)	13 (0.4)	490 (4.3)	244 (4.8)	27 ! (11.0)		
Korea, Republic of.....	1,006 (12.1)	613 (2.9)	137 (1.8)	13 (0.2)	560 (2.0)	126 (2.5)	11 (0.2)		
Lebanon.....	1,028 ⁵ (12.7)	449 (3.7)	178 ⁵ (3.9)	17 (0.4)	406 (4.9)	† (†)	† (†)		
Lithuania ⁹	898 (13.9)	502 (2.5)	132 (2.7)	15 (0.4)	514 (2.6)	251 ⁵ (5.2)	† (†)		
Macedonia, Republic of.....	1,023 ⁵ (21.4)	426 ⁷ (5.2)	122 ⁶ (4.6)	13 (0.6)	407 (5.4)	334 ⁶ (14.7)	† (†)		
Malaysia.....	1,198 ⁵ (13.7)	440 (5.4)	123 ⁵ (3.4)	10 (0.3)	426 (6.3)	126 (3.6)	10 (0.3)		
Morocco.....	1,303 ⁵ (24.9)	371 ¹¹ (2.0)	148 ⁵ (2.1)	12 (0.2)	376 (2.2)	144 ⁵ (2.0)	† (†)		
New Zealand.....	959 (4.4)	488 (5.5)	141 (1.8)	15 (0.2)	512 (4.6)	130 ⁵ (2.6)	14 (0.3)		
Norway.....	880 (6.3)	475 (2.4)	125 (3.4)	14 (0.4)	494 (2.6)	101 (3.3)	11 (0.4)		
Oman.....	1,044 ⁵ (17.7)	366 ⁷ (2.8)	161 ⁵ (5.1)	16 (0.4)	420 (3.2)	161 ⁶ (3.8)	16 (0.3)		
Palestinian National Authority.....	918 (7.3)	404 ⁷ (3.5)	134 (4.0)	15 (0.4)	420 (3.2)	107 (3.4)	12 (0.4)		
Qatar.....	1,054 (1.3)	410 ⁷ (3.1)	162 (3.6)	15 (0.4)	419 (3.4)	131 (6.9)	12 (0.5)		
Romania.....	984 (15.5)	458 (4.0)	145 (3.7)	15 (0.3)	465 (3.5)	281 (10.1)	† (†)		
Russian Federation ¹³	882 (8.7)	539 (3.6)	142 (2.0)	16 (0.3)	542 (3.2)	208 (1.6)	24 ! (8.8)		
Saudi Arabia.....	1,050 ⁵ (20.9)	394 ⁷ (4.6)	134 ⁵ (5.4)	13 (0.4)	436 (3.9)	124 ⁵ (6.8)	12 (0.5)		
Singapore ¹³	1,106 (†)	611 (3.8)	138 (1.7)	13 (0.2)	590 (4.3)	115 (2.1)	11 (0.2)		
Slovenia.....	798 (†)	505 (2.2)	121 (1.5)	15 (0.2)	543 (2.7)	251 (4.6)	31 (4.6)		
Sweden.....	969 ⁵ (13.4)	484 (1.9)	97 ⁶ (2.2)	10 (0.3)	509 (2.5)	94 ⁶ (3.1)	9 (0.4)		
Syrian Arab Republic.....	811 (14.2)	380 ⁷ (4.5)	118 ⁵ (4.7)	15 (0.5)	426 (3.9)	150 ⁵ (7.5)	† (†)		
Thailand.....	1,270 ⁵ (15.1)	427 (4.3)	129 (4.3)	10 (0.3)	451 (3.9)	119 (2.9)	9 (0.3)		
Tunisia.....	1,299 ⁵ (25.4)	425 (2.8)	131 ⁵ (3.0)	10 (0.2)	439 (2.5)	64 ⁵ (1.9)	5 (0.1)		
Turkey.....	889 (16.7)	452 (3.9)	117 (1.8)	14 (0.3)	483 (3.4)	99 (1.1)	12 (0.2)		
Ukraine.....	901 (10.7)	479 (3.9)	132 (3.5)	15 (0.4)	501 (3.4)	239 (4.0)	27 ! (11.4)		
United Arab Emirates.....	1,046 ⁵ (8.0)	456 (2.1)	157 ⁵ (2.9)	15 (0.3)	465 (2.4)	115 ⁶ (2.7)	11 (0.3)		
United States ¹³	1,114 (6.6)	509 (2.6)	157 ⁶ (3.2)	14 (0.3)	525 (2.6)	139 ¹⁴ (2.4)	13 ¹⁴ (0.2)		
Benchmarking education systems									
Abu Dhabi-UAE.....	1,045 ⁵ (16.6)	449 (3.7)	158 ⁵ (5.8)	15 (0.5)	461 (4.0)	111 ⁶ (4.8)	11 (0.5)		
Alabama-USA ^{9,15}	1,135 ⁵ (16.0)	466 (5.9)	166 ⁶ (8.9)	15 (0.9)	485 (6.2)	167 ⁶ (6.0)	15 (0.5)		
Alberta-CAN ¹³	1,031 (10.0)	505 (2.6)	156 (4.2)	19 (0.4)	546 (2.4)	145 ⁵ (4.0)	10 (0.4)		
California-USA ^{9,13,15}	1,040 ⁵ (15.2)	493 (4.9)	172 ⁶ (8.0)	17 (0.7)	499 (4.6)	† (†)	14 (0.7)		
Colorado-USA ^{9,15}	1,148 (17.0)	518 (4.9)	173 ⁵ (8.6)	15 (0.8)	542 (4.4)	138 ⁶ (6.0)	12 (0.5)		

See notes at end of table.

Table 602.30. Average eighth-grade scores and annual instructional time in mathematics and science, by country or other education system: 2011—Continued

[Standard errors appear in parentheses]

Country or other education system ¹	Total instructional hours per year	Mathematics				Science			
		Average score ²	Instructional time in mathematics		Average score ²	Instructional time in science ³			
			Hours per year	As a percent of total instructional hours		Hours per year	As a percent of total instructional hours		
1	2	3	4	5	6	7	8		
Connecticut-USA ^{9,13,15}	1,071 (19.3)	518 (4.8)	144 ⁵ (4.4)	14 (0.5)	532 (4.6)	139 ⁶ (6.2)	13 (0.6)		
Dubai-UAE	1,022 ⁵ (1.5)	478 (2.1)	155 ⁵ (3.6)	15 (0.3)	485 (2.5)	125 ⁶ (3.6)	11 (0.3)		
Florida-USA ^{9,13,15}	1,119 ⁵ (17.0)	513 (6.4)	144 ⁶ (7.4)	13 (0.7)	530 (7.3)	†	13 (0.8)		
Indiana-USA ^{9,13,15}	1,133 ⁵ (14.9)	522 (5.1)	149 ⁶ (6.9)	13 (0.7)	533 (4.8)	132 ⁶ (6.5)	12 (0.6)		
Massachusetts-USA ^{9,13,15}	1,087 (13.6)	561 (5.3)	154 ⁵ (5.4)	14 (0.6)	567 (5.1)	156 ⁶ (6.1)	15 (0.6)		
Minnesota-USA ^{9,15}	1,043 (14.8)	545 (4.6)	142 ⁵ (7.5)	14 (0.7)	553 (4.6)	140 ⁶ (8.3)	14 (0.9)		
North Carolina-USA ^{9,12,15}	1,159 (16.0)	537 (6.8)	185 ⁶ (9.7)	16 (0.8)	532 (6.3)	†	16 (1.2)		
Ontario-CAN ¹³	971 ⁵ (7.5)	512 (2.5)	181 ⁵ (3.9)	16 (0.5)	521 (2.5)	96 ⁵ (3.5)	11 (0.3)		
Quebec-CAN	913 (3.3)	532 (2.3)	147 (4.1)	15 (0.5)	520 (2.5)	102 ⁵ (3.0)	14 (0.4)		

†Not applicable.

#Rounds to zero.

!Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 and 50 percent.

‡Reporting standards not met. Either data are available for less than 50 percent of the students or the coefficient of variation (CV) is 50 percent or greater.

¹Most of the education systems represent complete countries, but some represent subnational entities such as U.S. states, Canadian provinces, and England (which is part of the United Kingdom). The name of each subnational entity appears in italics and includes as a suffix the three-letter International Organization for Standardization (ISO) abbreviation for its complete country. Examples include *Florida-USA*, *Ontario-CAN*, and *England-GBR*.

²Trends in International Mathematics and Science Study (TIMSS) scores are reported on a scale from 0 to 1,000, with the scale average set at 500 and the standard deviation set at 100.

³General/integrated science instructional time is shown for the 27 participating countries that teach science as a general or integrated subject at the eighth grade. For the 15 participating countries that teach the sciences as separate subjects (biology, chemistry, etc.) at the eighth grade, total instructional time across science subjects is shown.

⁴The TIMSS average includes only education systems that are members of the International Association for the Evaluation of Educational Achievement (IAE), which develops and implements TIMSS at the international level. "Benchmarking" education systems are not members of the IEA and are therefore not included in the average.

⁵Data are available for at least 70 percent but less than 85 percent of students.

⁶Data are available for at least 50 percent but less than 70 percent of students.

⁷The TIMSS & PIRLS International Study Center has reservations about the reliability of the average achievement score because the percentage of students with achievement too low for estimation exceeds 15 percent, though it is less than 25 percent.

⁸Nearly satisfied guidelines for sample participation rate after replacement schools were included.

⁹National Target Population does not include all of the International Target Population defined by TIMSS.

¹⁰Exclusion rates for Georgia are slightly underestimated as some conflict zones were not covered and no official statistics were available.

¹¹The TIMSS & PIRLS International Study Center has reservations about the reliability of the average achievement score because the percentage of students with achievement too low for estimation exceeds 25 percent.

¹²National Defined Population covers less than 90 percent of National Target Population (but at least 77 percent).

¹³National Defined Population covers 90 to 95 percent of National Target Population.

¹⁴Data are for 2007 and are from *TIMSS 2007 International Results in Science*. Met guidelines for sample participation rates only after replacement schools were included. Data are available for at least 50 percent but less than 70 percent of students.

¹⁵All U.S. state data are based on public school students only.

NOTE: Countries were required to sample students in the grade that corresponded to the end of 8 years of formal schooling, providing that the mean age at the time of testing was at least 13.5 years. Instructional times shown in this table are actual or implemented times (as opposed to intended times prescribed by the curriculum). Principals reported total instructional hours per day and school days per year. Total instructional hours per year were calculated by multiplying the number of school days per year by the number of instructional hours per day. Teachers reported instructional hours per week in mathematics and science. Instructional hours per year in mathematics and science were calculated by dividing weekly instructional hours by the number of school days per week and then multiplying by the number of school days per year.

SOURCE: International Association for the Evaluation of Educational Achievement (IEA), Trends in International Mathematics and Science Study (TIMSS), 2011; *TIMSS 2011 International Results in Mathematics*, by Ina V.S. Mullis et al.; and *TIMSS 2011 International Results in Science*, by Michael O. Martin et al. (This table was prepared December 2012.)

Table 602.40. Average reading literacy, mathematics literacy, and science literacy scores of 15-year-old students, by sex and country or other education system: 2009 and 2012

[Standard errors appear in parentheses]

Country or other education system	Reading literacy				Mathematics literacy				Science literacy			
	2009	2012			2009	2012			2009	2012		
		Total	Male	Female		Total	Male	Female		Total	Male	Female
1	2	3	4	5	6	7	8	9	10	11	12	13
OECD average¹	493 (0.5)	496 (0.5)	478 (0.6)	515 (0.5)	496 (0.5)	494 (0.5)	499 (0.6)	489 (0.5)	501 (0.5)	501 (0.5)	502 (0.6)	500 (0.5)
Australia.....	515 (2.3)	512 (1.6)	495 (2.3)	530 (2.0)	514 (2.5)	504 (1.6)	510 (2.4)	498 (2.0)	527 (2.5)	521 (1.8)	524 (2.5)	519 (2.1)
Austria.....	470 (2.9)	490 (2.8)	471 (4.0)	508 (3.4)	496 (2.7)	506 (2.7)	517 (3.9)	494 (3.3)	494 (3.2)	506 (2.7)	510 (3.9)	501 (3.4)
Belgium.....	506 (2.3)	509 (2.3)	493 (3.0)	525 (2.7)	515 (2.3)	515 (2.1)	520 (2.9)	509 (2.6)	507 (2.5)	505 (2.2)	507 (3.0)	503 (2.6)
Canada.....	524 (1.5)	523 (1.9)	506 (2.3)	541 (2.1)	527 (1.6)	518 (1.8)	523 (2.1)	513 (2.1)	529 (1.6)	525 (1.9)	527 (2.4)	524 (2.0)
Chile.....	449 (3.1)	441 (2.9)	430 (3.8)	452 (2.9)	421 (3.1)	423 (3.1)	436 (3.8)	411 (3.1)	447 (2.9)	445 (2.9)	448 (3.7)	442 (2.9)
Czech Republic.....	478 (2.9)	493 (2.9)	474 (3.3)	513 (3.4)	493 (2.8)	499 (2.9)	505 (3.7)	493 (3.6)	500 (3.0)	508 (3.0)	509 (3.7)	508 (3.5)
Denmark.....	495 (2.1)	496 (2.6)	481 (3.3)	512 (2.6)	503 (2.6)	500 (2.3)	507 (2.9)	493 (2.3)	499 (2.5)	498 (2.7)	504 (3.5)	493 (2.5)
Estonia.....	501 (2.6)	516 (2.0)	494 (2.4)	538 (2.3)	512 (2.6)	521 (2.0)	523 (2.6)	518 (2.2)	528 (2.7)	541 (1.9)	540 (2.5)	543 (2.3)
Finland.....	536 (2.3)	524 (2.4)	494 (3.1)	556 (2.4)	541 (2.2)	519 (1.9)	517 (2.6)	520 (2.2)	554 (2.3)	545 (2.3)	537 (3.0)	554 (2.3)
France.....	496 (3.4)	505 (2.8)	483 (3.8)	527 (3.0)	497 (3.1)	495 (2.5)	499 (3.4)	491 (2.5)	498 (3.6)	499 (2.6)	498 (3.8)	500 (2.4)
Germany.....	497 (2.7)	508 (2.8)	486 (2.9)	530 (3.1)	513 (2.9)	514 (2.9)	520 (3.0)	507 (3.4)	520 (2.8)	524 (3.0)	524 (3.1)	524 (3.5)
Greece.....	483 (4.3)	477 (3.3)	452 (4.1)	502 (3.1)	466 (3.9)	453 (2.5)	457 (3.3)	449 (2.6)	470 (4.0)	467 (3.1)	460 (3.8)	473 (3.0)
Hungary.....	494 (3.2)	488 (3.2)	468 (3.9)	508 (3.3)	490 (3.5)	477 (3.2)	482 (3.7)	473 (3.6)	503 (3.1)	494 (2.9)	496 (3.4)	493 (3.3)
Iceland.....	500 (1.4)	483 (1.8)	457 (2.4)	508 (2.5)	507 (1.4)	493 (1.7)	490 (2.3)	496 (2.3)	496 (1.4)	478 (2.1)	477 (2.7)	480 (2.9)
Ireland.....	496 (3.0)	523 (2.6)	509 (3.5)	538 (3.0)	487 (2.5)	501 (2.2)	509 (3.3)	494 (2.6)	508 (3.3)	522 (2.5)	524 (3.4)	520 (3.1)
Israel.....	474 (3.6)	486 (5.0)	463 (8.2)	507 (3.9)	447 (3.3)	466 (4.7)	472 (7.8)	461 (3.5)	455 (3.1)	470 (5.0)	470 (7.9)	470 (4.0)
Italy.....	486 (1.6)	490 (2.0)	471 (2.5)	510 (2.3)	483 (1.9)	483 (1.9)	484 (2.4)	476 (2.2)	489 (1.8)	494 (1.9)	495 (2.2)	492 (2.4)
Japan.....	520 (3.5)	538 (3.7)	527 (4.7)	551 (3.6)	529 (3.3)	536 (3.6)	545 (4.6)	527 (3.6)	539 (3.4)	547 (3.6)	552 (4.7)	541 (3.5)
Korea, Republic of.....	539 (3.5)	536 (3.9)	525 (5.0)	548 (4.5)	546 (4.0)	554 (4.6)	562 (5.8)	544 (5.1)	538 (3.4)	538 (3.7)	539 (4.7)	536 (4.2)
Luxembourg.....	472 (1.3)	488 (1.5)	473 (1.9)	503 (1.8)	489 (1.2)	490 (1.1)	502 (1.5)	477 (1.4)	484 (1.2)	491 (1.3)	499 (1.7)	483 (1.7)
Mexico.....	425 (2.0)	424 (1.5)	411 (1.7)	435 (1.6)	419 (1.8)	413 (1.4)	420 (1.6)	406 (1.4)	416 (1.8)	415 (1.3)	418 (1.5)	412 (1.3)
Netherlands.....	508 (5.1)	511 (3.5)	498 (4.0)	525 (3.5)	526 (4.7)	523 (3.5)	528 (3.6)	518 (3.9)	522 (5.4)	522 (3.5)	524 (3.7)	520 (3.9)
New Zealand.....	521 (2.4)	512 (2.4)	495 (3.3)	530 (3.5)	519 (2.3)	500 (2.2)	507 (3.2)	492 (2.9)	532 (2.6)	516 (2.1)	518 (3.2)	513 (3.3)
Norway.....	503 (2.6)	504 (3.2)	481 (3.3)	528 (3.9)	498 (2.4)	489 (2.7)	490 (2.8)	488 (3.4)	500 (2.6)	495 (3.1)	493 (3.2)	496 (3.7)
Poland.....	500 (2.6)	518 (3.1)	497 (3.7)	539 (3.1)	495 (2.8)	518 (3.6)	520 (4.3)	516 (3.8)	508 (2.4)	526 (3.1)	524 (3.7)	527 (3.2)
Portugal.....	489 (3.1)	488 (3.8)	468 (4.2)	508 (3.7)	487 (2.9)	487 (3.8)	493 (4.1)	481 (3.9)	493 (2.9)	489 (3.7)	488 (4.1)	490 (3.8)
Slovak Republic.....	477 (2.5)	463 (4.2)	444 (4.6)	483 (5.1)	497 (3.1)	482 (3.4)	486 (4.1)	477 (4.1)	490 (3.0)	471 (3.6)	475 (4.3)	467 (4.2)
Slovenia.....	483 (1.0)	481 (1.2)	454 (1.7)	510 (1.8)	501 (1.2)	501 (1.2)	503 (2.0)	499 (2.0)	512 (1.1)	514 (1.3)	510 (1.9)	519 (1.9)
Spain.....	481 (2.0)	488 (1.9)	474 (2.3)	503 (1.9)	483 (2.1)	484 (1.9)	492 (2.4)	476 (2.0)	488 (2.1)	496 (1.8)	500 (2.3)	493 (1.9)
Sweden.....	497 (2.9)	483 (3.0)	458 (4.0)	509 (2.8)	494 (2.9)	478 (2.3)	477 (3.0)	480 (2.4)	495 (2.7)	485 (3.0)	481 (3.9)	489 (2.8)
Switzerland.....	501 (2.4)	509 (2.6)	491 (3.1)	527 (2.5)	534 (3.3)	531 (3.0)	537 (3.5)	524 (3.1)	517 (2.8)	515 (2.7)	518 (3.3)	512 (2.7)
Turkey.....	464 (3.5)	475 (4.2)	453 (4.6)	499 (4.3)	445 (4.4)	448 (4.8)	452 (5.1)	444 (5.7)	454 (3.6)	463 (3.9)	458 (4.5)	469 (4.3)
United Kingdom.....	494 (2.3)	499 (3.5)	487 (4.5)	512 (3.8)	492 (2.4)	494 (3.3)	500 (4.2)	488 (3.8)	514 (2.5)	514 (3.4)	521 (4.5)	508 (3.7)
United States.....	500 (3.7)	498 (3.7)	482 (4.1)	513 (3.8)	487 (3.6)	481 (3.6)	484 (3.8)	479 (3.9)	502 (3.6)	497 (3.8)	497 (4.1)	498 (4.0)
Non-OECD education systems												
Albania.....	385 (4.0)	394 (3.2)	387 (3.8)	401 (3.7)	377 (4.0)	394 (2.0)	394 (2.6)	395 (2.6)	391 (3.9)	397 (2.4)	394 (3.0)	401 (2.9)
Argentina.....	398 (4.6)	396 (3.7)	377 (4.5)	414 (3.6)	388 (4.1)	388 (3.5)	396 (4.2)	382 (3.4)	401 (4.6)	406 (3.9)	402 (4.5)	409 (4.0)
Brazil.....	412 (2.7)	410 (2.1)	394 (2.4)	425 (2.2)	386 (2.4)	391 (2.1)	401 (2.2)	383 (2.3)	405 (2.4)	405 (2.1)	406 (2.3)	404 (2.3)
Bulgaria.....	429 (6.7)	436 (6.0)	403 (6.3)	472 (5.6)	428 (5.9)	439 (4.0)	438 (4.7)	440 (4.2)	439 (5.9)	446 (4.8)	437 (5.6)	457 (4.6)
Chinese Taipei.....	— (†)	523 (3.0)	507 (4.3)	539 (4.3)	— (†)	560 (3.3)	563 (5.4)	557 (5.7)	— (†)	523 (2.3)	524 (3.9)	523 (4.0)
Colombia.....	413 (3.7)	403 (3.4)	394 (3.9)	412 (3.8)	381 (3.2)	376 (2.9)	390 (3.4)	364 (3.2)	402 (3.6)	399 (3.1)	408 (3.4)	390 (3.6)
Connecticut-USA ²	— (†)	521 (6.5)	510 (7.1)	532 (6.7)	— (†)	506 (6.2)	513 (6.9)	499 (6.3)	— (†)	521 (5.7)	528 (6.2)	514 (6.1)
Costa Rica.....	— (†)	441 (3.5)	427 (3.9)	452 (3.5)	— (†)	407 (3.0)	420 (3.6)	396 (3.1)	— (†)	429 (2.9)	436 (3.5)	424 (3.2)
Croatia.....	476 (2.9)	485 (3.3)	461 (4.1)	509 (3.3)	460 (3.1)	471 (3.5)	477 (4.4)	465 (3.7)	486 (2.8)	491 (3.1)	490 (3.9)	493 (3.3)
Cyprus.....	— (†)	449 (1.2)	418 (1.9)	481 (1.9)	— (†)	440 (1.1)	440 (1.5)	440 (1.6)	— (†)	438 (1.2)	431 (1.8)	444 (1.7)
Florida-USA ²	— (†)	492 (6.1)	481 (7.0)	503 (5.9)	— (†)	467 (5.8)	474 (6.3)	460 (6.0)	— (†)	485 (6.4)	491 (7.4)	478 (6.2)
Hong Kong-China.....	533 (2.1)	545 (2.8)	533 (3.8)	558 (3.3)	555 (2.7)	561 (3.2)	568 (4.6)	553 (3.9)	549 (2.8)	555 (2.6)	558 (3.6)	551 (3.1)
Indonesia.....	402 (3.7)	396 (4.2)	382 (4.8)	410 (4.3)	371 (3.7)	375 (4.0)	377 (4.4)	373 (4.3)	383 (3.8)	382 (3.8)	380 (4.1)	383 (4.1)
Jordan.....	405 (3.3)	399 (3.6)	361 (5.5)	436 (3.1)	387 (3.7)	386 (3.1)	375 (5.4)	396 (3.1)	415 (3.5)	409 (3.1)	388 (5.4)	430 (2.9)
Kazakhstan.....	390 (3.1)	393 (2.7)	374 (3.4)	411 (2.6)	405 (3.0)	432 (3.0)	432 (3.4)	432 (3.3)	400 (3.1)	425 (3.0)	420 (3.4)	429 (3.2)
Latvia.....	484 (3.0)	489 (2.4)	462 (3.3)	516 (2.7)	482 (3.1)	491 (2.8)	489 (3.4)	493 (3.2)	494 (3.1)	502 (2.8)	495 (3.6)	510 (2.8)
Liechtenstein.....	499 (2.8)	516 (4.1)	504 (6.2)	529 (5.8)	536 (4.1)	535 (4.0)	546 (6.0)	523 (5.8)	520 (3.4)	525 (3.5)	533 (5.8)	516 (5.7)
Lithuania.....	468 (2.4)	477 (2.5)	450 (2.8)	505 (2.6)	477 (2.6)	479 (2.6)	479 (2.8)	479 (3.0)	491 (2.9)	496 (2.6)	488 (3.0)	503 (2.6)
Macao-China.....	487 (0.9)	509 (0.9)	492 (1.4)	527 (1.1)	525 (0.9)	538 (1.0)	540 (1.4)	537 (1.3)	511 (1.0)	521 (0.8)	520 (1.3)	521 (1.2)
Malaysia.....	— (†)	398 (3.3)	377 (3.9)	418 (3.3)	— (†)	421 (3.2)	416 (3.7)	424 (3.7)	— (†)	420 (3.0)	414 (3.8)	425 (3.1)
Montenegro, Republic of.....	408 (1.7)	422 (1.2)	391 (2.3)	453 (1.5)	403 (2.0)	410 (1.1)	410 (1.6)	410 (1.6)	401 (2.0)	410 (1.1)	402 (1.6)	419 (1.6)
Peru.....	370 (4.0)	384 (4.3)	373 (4.0)	395 (5.4)	365 (4.0)	368 (3.7)	378 (3.6)	359 (4.8)	369 (3.5)	373 (3.6)	376 (3.5)	370 (4.6)
Massachusetts-USA ²	— (†)	527 (6.1)	511 (6.2)	542 (6.6)	— (†)	514 (6.2)	518 (6.3)	509 (7.1)	— (†)	527 (6.0)	529 (6.1)	526 (6.8)
Qatar.....	372 (0.8)	388 (0.8)	354 (1.1)	424 (1.2)	368 (0.7)	376 (0.8)	369 (1.1)	385 (0.9)	379 (0.9)	384 (0.7)	367 (1.2)	402 (1.1)
Romania.....	424 (4.1)	438 (4.0)	417 (4.5)	457 (4.2)	427 (3.4)	445 (3.8)	447 (4.3)	443 (4.0)	428 (3.4)	439 (3.3)	436 (3.7)	441 (3.5)
Russian Federation.....	459 (3.3)	475 (3.0)	455 (3.5)	495 (3.2)	468 (3.3)	482 (3.0)	481 (3.7)	483 (3.1)	478 (3.3)	486 (2.9)	484 (3.5)	489 (2.9)
Serbia, Republic of.....	442 (2.4)	446 (3.4)	423 (3.9)	469 (3.8)	442 (2.9)	449 (3.4)	453 (4.1)	443 (3.7)	443 (2.4)	445 (3.4)	443 (4.0)	447 (3.8)
Shanghai-China.....	556 (2.4)	570 (2.9)	557 (3.3)	581 (2.8)	600 (2.8)	613 (3.3)	616 (4.0)	610 (3.4)	575 (2.3)	580 (3.0)	583 (3.5)	578 (3.1)
Singapore.....	526 (1.1)	542 (1.4)	527 (1.9)	559 (1.9)	562 (1.4)	573 (1.3)	572 (1.9)	575 (1.8)	542 (1.4)	551 (1.5)	551 (2.1)	552 (1.9)
Thailand.....	421 (2.6)	441 (3.1)	410 (3.6)	465 (3.3)	419 (3.2)	427 (3.4)	419 (3.6)	433 (4.1)	425 (3.0)	444 (2.9)	433 (3.3)	452 (3.4)
Tunisia.....	404 (2.9)	404 (4.5)	388 (5.0)	418 (4.4)	371 (3.0)	388 (3.9)	396 (4.3)	381 (4.0)	401 (2.7)	398 (3.5)	399 (3.9)	398 (3.6)
United Arab Emirates.....	— (†)	442 (2.5)	413 (3.9)	469 (3.2)	— (†)	434 (2.4)	432 (3.8)	436 (3.0)	— (†)	448 (2.8)	434 (4.1)	462 (3.7)
Uruguay.....	426 (2.6)	411 (3.2)	392 (3.9)	428 (3.2)	427 (2.6)	409 (2.8)	415 (3.5)	404 (2.9)	427 (2.6)	416 (2.8)	415 (3.4)	416 (3.1)
Vietnam.....	— (†)	508 (4.4)	492 (5.0)	523 (4.0)	— (†)	511 (4.8)	517 (5.6)	507 (4.7)	— (†)	528 (4.3)	529 (5.0)	528 (4.1)

—Not available.

†Not applicable.

¹Refers to the mean of the data values for all Organization for Economic Cooperation and Development (OECD) countries, to which each country contributes equally regardless of the absolute size of the student population of each country.²Results are for public school students only.

NOTE: Program for International Student Assessment (PISA) scores are reported on a scale from 0 to 1,000.

SOURCE: Organization for Economic Cooperation and Development (OECD), Program for International Student Assessment (PISA), 2009 and 2012. (This table was prepared July 2014.)

Table 602.50. Average reading literacy scores of 15-year-old students and percentage attaining reading literacy proficiency levels, by country or other education system: 2012
[Standard errors appear in parentheses]

Country or other education system	Average reading literacy score	Percentage attaining reading literacy proficiency levels ¹									
		Below level 2					At or above level 5				
		Below level 2		At level 1b		At level 1a	At level 2	At level 3	At level 4	Total at or above level 5	
		Total below level 2	Below level 1b	Below level 1b	At level 1b					At level 5	At level 6
1	2	3	4	5	6	7	8	9	10	11	12
OECD average ²	496 (0.5)	18.0 (0.18)	1.3 (0.05)	4.4 (0.08)	12.3 (0.13)	23.5 (0.16)	29.1 (0.17)	21.0 (0.16)	8.4 (0.12)	7.3 (0.10)	1.1 (0.04)
Australia	512 (1.6)	14.2 (0.46)	0.9 (0.11)	3.1 (0.21)	10.2 (0.42)	21.6 (0.47)	29.1 (0.53)	23.3 (0.51)	11.7 (0.54)	9.8 (0.46)	1.9 (0.19)
Austria	490 (2.8)	19.5 (1.07)	0.8 (0.24)	4.8 (0.64)	13.8 (0.84)	24.2 (0.89)	29.6 (0.92)	21.2 (0.94)	5.5 (0.61)	5.2 (0.59)	0.3 (0.10)
Belgium	509 (2.3)	16.2 (0.77)	1.6 (0.31)	4.1 (0.40)	10.4 (0.55)	20.4 (0.62)	27.3 (0.70)	24.4 (0.71)	12.3 (0.55)	10.4 (0.54)	1.4 (0.17)
Canada	523 (1.9)	10.9 (0.45)	0.5 (0.09)	2.4 (0.19)	8.0 (0.36)	19.4 (0.55)	31.0 (0.72)	25.8 (0.59)	12.9 (0.62)	10.8 (0.53)	2.1 (0.22)
Chile	441 (2.9)	33.0 (1.67)	1.0 (0.19)	8.1 (0.79)	23.9 (1.08)	35.1 (1.08)	24.3 (1.06)	6.9 (0.62)	0.6 (0.10)	0.6 (0.11)	†
Czech Republic	493 (2.9)	16.9 (1.21)	0.6 (0.27)	3.5 (0.56)	12.7 (0.94)	26.4 (1.30)	31.3 (1.23)	19.4 (1.13)	6.1 (0.55)	5.3 (0.49)	0.8 (0.16)
Denmark	496 (2.6)	14.6 (1.07)	0.8 (0.30)	3.1 (0.39)	10.7 (0.77)	25.8 (0.92)	33.6 (0.85)	20.5 (0.86)	5.4 (0.62)	5.1 (0.58)	0.4 (0.12)
Estonia	516 (2.0)	9.1 (0.65)	†	1.3 (0.28)	7.7 (0.61)	22.7 (0.94)	35.0 (1.06)	24.9 (1.08)	8.3 (0.72)	7.5 (0.71)	0.9 (0.18)
Finland	524 (2.4)	11.3 (0.71)	0.7 (0.16)	2.4 (0.38)	8.2 (0.57)	19.1 (0.81)	29.3 (0.70)	26.8 (0.84)	13.5 (0.64)	11.3 (0.60)	2.2 (0.26)
France	505 (2.8)	18.9 (0.98)	2.1 (0.40)	4.9 (0.43)	11.9 (0.70)	18.9 (0.85)	26.3 (0.84)	23.0 (0.87)	12.9 (0.85)	10.6 (0.82)	2.3 (0.41)
Germany	508 (2.8)	14.5 (0.91)	0.5 (0.18)	3.3 (0.40)	10.7 (0.67)	22.1 (0.93)	29.9 (0.86)	24.6 (0.88)	8.9 (0.70)	8.3 (0.64)	0.7 (0.23)
Greece	477 (3.3)	22.6 (1.24)	2.6 (0.40)	5.9 (0.60)	14.2 (0.83)	25.1 (1.06)	30.0 (1.02)	17.2 (1.19)	5.1 (0.61)	4.6 (0.59)	0.5 (0.13)
Hungary	488 (3.2)	19.7 (1.22)	0.7 (0.24)	5.2 (0.64)	13.8 (0.88)	24.3 (1.17)	29.9 (1.00)	20.4 (1.05)	5.6 (0.75)	5.3 (0.68)	0.4 (0.13)
Iceland	483 (1.8)	21.0 (0.72)	2.3 (0.33)	5.4 (0.47)	13.3 (0.63)	24.7 (0.92)	29.9 (1.09)	18.6 (1.12)	5.8 (0.51)	5.2 (0.41)	0.6 (0.21)
Ireland	523 (2.6)	9.6 (0.88)	0.3 (0.13)	1.9 (0.35)	7.5 (0.69)	19.6 (1.19)	33.4 (1.17)	26.0 (0.90)	11.4 (0.65)	10.1 (0.67)	1.3 (0.35)
Israel	486 (5.0)	23.6 (1.64)	3.8 (0.59)	6.9 (0.74)	12.9 (0.96)	20.8 (0.87)	25.3 (0.81)	20.6 (1.03)	9.6 (0.84)	8.1 (0.77)	1.5 (0.30)
Italy	490 (2.0)	19.5 (0.67)	1.6 (0.15)	5.2 (0.29)	12.7 (0.48)	23.7 (0.57)	29.7 (0.53)	20.5 (0.82)	6.7 (0.35)	6.1 (0.33)	0.6 (0.07)
Japan	538 (3.7)	9.8 (0.92)	0.6 (0.16)	2.4 (0.37)	6.7 (0.67)	16.6 (0.89)	26.7 (0.98)	28.4 (1.08)	18.5 (1.27)	14.6 (0.99)	3.9 (0.59)
Korea, Republic of	536 (3.9)	7.6 (0.89)	0.4 (0.13)	1.7 (0.39)	5.5 (0.60)	16.4 (0.94)	30.8 (1.00)	31.0 (1.06)	14.1 (1.24)	12.6 (1.05)	1.6 (0.32)
Luxembourg	488 (1.5)	22.2 (0.74)	2.0 (0.21)	6.3 (0.33)	13.8 (0.81)	23.4 (0.71)	25.8 (0.64)	19.7 (0.64)	8.9 (0.39)	7.5 (0.35)	1.4 (0.20)
Mexico	424 (1.5)	41.1 (0.90)	2.6 (0.22)	11.0 (0.53)	27.5 (0.70)	34.5 (0.62)	19.6 (0.54)	4.5 (0.25)	0.4 (0.09)	0.4 (0.08)	†
Netherlands	511 (3.5)	14.0 (1.23)	†	2.8 (0.49)	10.3 (0.93)	21.0 (1.27)	29.2 (1.32)	26.1 (1.36)	9.8 (0.82)	9.0 (0.72)	0.8 (0.19)
New Zealand	512 (2.4)	16.3 (0.83)	1.3 (0.28)	4.0 (0.46)	11.0 (0.67)	20.8 (0.76)	26.3 (1.06)	22.7 (1.06)	14.0 (0.77)	10.9 (0.62)	3.0 (0.37)
Norway	504 (3.2)	16.2 (1.03)	1.7 (0.31)	3.7 (0.36)	10.8 (0.69)	21.9 (1.03)	29.4 (1.35)	22.3 (1.21)	10.2 (0.74)	8.5 (0.61)	1.7 (0.31)
Poland	518 (3.1)	10.6 (0.80)	0.3 (0.11)	2.1 (0.35)	8.1 (0.74)	21.4 (0.90)	32.0 (0.89)	26.0 (0.96)	10.0 (0.93)	8.6 (0.76)	1.4 (0.37)
Portugal	488 (3.8)	18.8 (1.42)	1.3 (0.30)	5.1 (0.53)	12.3 (0.98)	25.5 (1.16)	30.2 (1.46)	19.7 (1.07)	5.8 (0.61)	5.3 (0.57)	0.5 (0.15)
Slovak Republic	463 (4.2)	28.2 (1.78)	4.1 (0.77)	7.9 (0.80)	16.2 (1.06)	25.0 (1.08)	26.8 (1.38)	15.7 (0.96)	4.4 (0.68)	4.1 (0.60)	†
Slovenia	481 (1.2)	21.1 (0.68)	1.2 (0.14)	4.9 (0.37)	15.0 (0.71)	27.2 (0.77)	28.4 (0.94)	18.2 (0.63)	5.0 (0.43)	4.7 (0.45)	0.3 (0.12)
Spain	488 (1.9)	18.3 (0.76)	1.3 (0.17)	4.4 (0.38)	12.6 (0.47)	25.8 (0.81)	31.2 (0.68)	19.2 (0.62)	5.5 (0.30)	5.0 (0.30)	0.5 (0.10)
Sweden	483 (3.0)	22.7 (1.15)	2.9 (0.39)	6.0 (0.64)	13.9 (0.72)	23.5 (0.88)	27.3 (0.73)	18.6 (0.93)	7.9 (0.64)	6.7 (0.53)	1.2 (0.20)
Switzerland	509 (2.6)	13.7 (0.76)	0.5 (0.14)	2.9 (0.34)	10.3 (0.59)	21.9 (0.86)	31.5 (0.71)	23.8 (0.84)	9.1 (0.68)	8.2 (0.60)	1.0 (0.25)
Turkey	475 (4.2)	21.6 (1.43)	0.6 (0.15)	4.5 (0.57)	16.6 (1.07)	30.8 (1.39)	28.7 (1.34)	14.5 (1.39)	4.3 (0.85)	4.1 (0.79)	0.3 (0.13)
United Kingdom	499 (3.5)	16.6 (1.30)	1.5 (0.27)	4.0 (0.54)	11.2 (0.79)	23.5 (1.01)	29.9 (1.08)	21.3 (1.14)	8.8 (0.74)	7.5 (0.59)	1.3 (0.24)
United States	498 (3.7)	16.6 (1.26)	0.8 (0.24)	3.6 (0.49)	12.3 (0.89)	24.9 (0.99)	30.5 (0.88)	20.1 (1.08)	7.9 (0.67)	6.9 (0.59)	1.0 (0.22)

See notes at end of table.

Table 602.50. Average reading literacy scores of 15-year-old students and percentage attaining reading literacy proficiency levels, by country or other education system: 2012—Continued
[Standard errors appear in parentheses]

Country or other education system	Average reading literacy score	Percentage attaining reading literacy proficiency levels ¹									
		Below level 2					At or above level 5				
		Total below level 2	Below level 1b	At level 1b	At level 1a	At level 2	At level 3	At level 4	Total at or above level 5	At level 5	At level 6
1	2	3	4	5	6	7	8	9	10	11	12
Non-OECD education systems											
Albania.....	394 (3.2)	52.3 (1.28)	12.0 (0.84)	15.9 (1.00)	24.4 (1.23)	24.7 (1.01)	15.9 (0.73)	5.9 (0.61)	1.2 (0.25)	1.1 (0.24)	± (†)
Argentina.....	396 (3.7)	53.6 (1.73)	8.1 (0.80)	17.7 (1.20)	27.7 (1.34)	27.3 (1.12)	14.6 (0.91)	4.0 (0.57)	0.5 (0.14)	0.5 (0.15)	± (†)
Brazil.....	410 (2.1)	49.2 (1.13)	4.0 (0.36)	14.8 (0.64)	30.4 (0.79)	30.1 (0.77)	15.8 (0.63)	4.4 (0.37)	0.5 (0.12)	0.5 (0.12)	± (†)
Bulgaria.....	436 (6.0)	39.4 (2.21)	8.0 (1.07)	12.8 (0.86)	18.6 (1.10)	22.2 (1.16)	21.4 (1.10)	12.7 (1.03)	4.3 (0.64)	3.8 (0.56)	0.5 (0.18)
Chinese Taipei.....	523 (3.0)	11.5 (0.87)	0.6 (0.15)	2.5 (0.32)	8.4 (0.65)	18.1 (0.83)	29.9 (0.92)	28.7 (1.01)	11.8 (0.84)	10.4 (0.73)	1.4 (0.32)
Colombia.....	403 (3.4)	51.4 (1.78)	5.0 (0.76)	15.4 (0.98)	31.0 (1.29)	30.5 (1.22)	14.5 (0.91)	3.2 (0.50)	0.3 (0.13)	0.3 (0.12)	± (†)
Connecticut-USA ³	521 (6.5)	13.2 (1.76)	± (†)	3.2 (0.87)	9.7 (1.26)	19.6 (1.49)	28.2 (1.32)	24.4 (1.83)	14.5 (1.68)	11.7 (1.38)	2.9 (0.54)
Costa Rica.....	441 (3.5)	32.4 (1.81)	0.8 (0.24)	7.3 (1.02)	24.3 (1.25)	38.1 (1.40)	22.9 (1.42)	6.0 (0.78)	0.6 (0.19)	0.6 (0.19)	± (†)
Croatia.....	485 (3.3)	18.7 (1.29)	0.7 (0.25)	4.0 (0.59)	13.9 (0.97)	27.8 (1.07)	31.2 (1.24)	17.8 (1.09)	4.4 (0.69)	4.2 (0.66)	0.2 (0.11)
Cyprus.....	449 (1.2)	32.8 (0.67)	6.1 (0.32)	9.7 (0.44)	17.0 (0.61)	25.1 (0.78)	24.9 (0.75)	13.2 (0.64)	4.0 (0.32)	3.5 (0.34)	0.5 (0.12)
Florida-USA ³	492 (6.1)	17.5 (2.00)	0.7 (0.31)	3.6 (0.75)	13.2 (1.46)	25.8 (1.56)	30.9 (1.50)	20.4 (2.06)	5.5 (1.02)	4.9 (1.00)	± (†)
Hong Kong-China.....	545 (2.8)	6.8 (0.72)	0.2 (0.09)	1.3 (0.24)	5.3 (0.61)	14.3 (0.79)	29.2 (1.21)	32.9 (1.39)	16.8 (1.16)	14.9 (1.00)	1.9 (0.39)
Indonesia.....	396 (4.2)	55.2 (2.18)	4.1 (0.81)	16.3 (1.28)	34.8 (1.56)	31.6 (1.54)	11.5 (1.28)	1.5 (†)	± (†)	± (†)	± (†)
Jordan.....	399 (3.6)	50.7 (1.57)	7.5 (0.84)	14.9 (0.79)	28.3 (1.01)	30.8 (1.14)	15.5 (0.83)	2.9 (0.63)	± (†)	± (†)	± (†)
Kazakhstan.....	393 (2.7)	57.1 (1.56)	4.2 (0.47)	17.3 (1.24)	35.6 (1.15)	31.3 (1.12)	10.4 (0.87)	1.2 (0.24)	± (†)	± (†)	± (†)
Latvia.....	489 (2.4)	17.0 (1.14)	0.7 (0.24)	3.7 (0.54)	12.6 (0.96)	26.7 (1.31)	33.1 (1.05)	19.1 (0.88)	4.2 (0.55)	3.9 (0.56)	0.3 (0.11)
Liechtenstein.....	516 (4.1)	12.4 (1.88)	# (†)	± (†)	10.5 (1.85)	22.4 (3.44)	28.6 (4.53)	25.7 (2.44)	10.9 (2.89)	10.4 (2.44)	± (†)
Lithuania.....	477 (2.5)	21.2 (1.18)	1.0 (0.19)	4.6 (0.49)	15.6 (1.06)	28.1 (1.13)	31.1 (0.94)	16.3 (0.78)	3.3 (0.37)	3.1 (0.35)	0.2 (0.07)
Macao-China.....	509 (0.9)	11.5 (0.42)	0.3 (0.11)	2.1 (0.22)	9.0 (0.42)	23.3 (0.58)	34.3 (0.67)	24.0 (0.60)	7.0 (0.41)	6.4 (0.48)	0.6 (0.21)
Malaysia.....	398 (3.3)	52.7 (1.71)	5.8 (0.59)	16.4 (1.03)	30.5 (0.99)	31.0 (1.09)	13.6 (1.11)	2.5 (0.45)	± (†)	± (†)	± (†)
Massachusetts-USA ³	527 (6.1)	11.5 (1.37)	± (†)	2.3 (0.55)	8.6 (1.19)	18.5 (1.76)	29.8 (1.52)	24.2 (1.82)	16.1 (1.98)	12.9 (1.59)	3.2 (0.86)
Montenegro, Republic of.....	422 (1.2)	43.3 (0.75)	4.4 (0.53)	13.2 (0.62)	25.7 (0.94)	29.2 (0.77)	19.9 (0.76)	6.6 (0.53)	1.0 (0.19)	0.9 (0.19)	± (†)
Peru.....	384 (4.3)	59.9 (1.95)	9.8 (0.87)	20.6 (1.11)	29.5 (0.98)	24.9 (1.02)	11.4 (0.96)	3.3 (0.61)	0.5 (†)	0.5 (†)	± (†)
Qatar.....	388 (0.8)	57.1 (0.42)	13.6 (0.32)	18.9 (0.48)	24.6 (0.44)	21.9 (0.50)	13.5 (0.43)	5.8 (0.21)	1.6 (0.14)	1.4 (0.13)	0.2 (0.05)
Romania.....	438 (4.0)	37.3 (1.87)	2.5 (0.38)	10.3 (0.82)	24.4 (1.28)	30.6 (1.12)	21.8 (1.17)	8.7 (0.88)	1.6 (0.38)	1.5 (0.35)	± (†)
Russian Federation.....	475 (3.0)	22.3 (1.29)	1.1 (0.18)	5.2 (0.49)	16.0 (1.03)	29.5 (1.08)	28.3 (1.05)	15.3 (0.93)	4.6 (0.58)	4.2 (0.51)	0.5 (0.12)
Serbia, Republic of.....	446 (3.4)	33.1 (1.66)	2.6 (0.40)	9.3 (0.73)	21.3 (1.09)	30.8 (1.20)	23.3 (1.15)	10.5 (0.81)	2.2 (0.41)	2.0 (0.39)	0.2 (0.08)
Shanghai-China.....	570 (2.9)	2.9 (0.39)	± (†)	0.3 (†)	2.5 (0.34)	11.0 (0.85)	25.3 (0.85)	35.7 (1.07)	25.1 (1.19)	21.3 (0.98)	3.8 (0.65)
Singapore.....	542 (1.4)	9.9 (0.42)	0.5 (0.12)	1.9 (0.27)	7.5 (0.41)	16.7 (0.65)	25.4 (0.66)	26.8 (0.79)	21.2 (0.60)	16.2 (0.73)	5.0 (0.43)
Thailand.....	441 (3.1)	33.0 (1.40)	1.2 (0.29)	7.7 (0.77)	24.1 (0.98)	36.0 (1.12)	23.5 (1.13)	6.7 (0.79)	0.8 (0.22)	0.8 (0.21)	± (†)
Tunisia.....	404 (4.5)	49.3 (2.24)	6.2 (0.91)	15.5 (1.20)	27.6 (1.31)	31.4 (1.43)	15.6 (1.15)	3.5 (0.69)	± (†)	± (†)	± (†)
United Arab Emirates.....	442 (2.5)	35.5 (1.08)	3.3 (0.34)	10.4 (0.65)	21.8 (0.72)	28.6 (0.72)	24.0 (0.77)	9.7 (0.58)	2.2 (0.29)	2.1 (0.28)	0.2 (0.06)
Uruguay.....	411 (3.2)	47.0 (1.42)	6.4 (0.70)	14.7 (0.84)	25.9 (0.88)	28.9 (1.00)	17.4 (0.71)	5.7 (0.62)	0.9 (0.27)	0.9 (0.26)	± (†)
Vietnam.....	508 (4.4)	9.4 (1.43)	± (†)	1.5 (†)	7.8 (1.10)	23.7 (1.40)	39.0 (1.47)	23.4 (1.47)	4.5 (0.81)	4.2 (0.71)	0.4 (0.16)

†Not applicable.

#Rounds to zero.

Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 and 50 percent.

†Reporting standards not met. Either there are too few cases for a reliable estimate or the coefficient of variation (CV) is 50 percent or greater.

*To reach a particular proficiency level, a student must correctly answer a majority of items at that level. Students were classified into

reading literacy levels according to their scores. Exact cut scores are as follows: below level 1b (a score less than or equal to 262.04);

level 1b (a score greater than 262.04 and less than or equal to 334.75); level 1a (a score greater than 334.75 and less than or equal

to 407.47); level 2 (a score greater than 407.47 and less than or equal to 480.18); level 3 (a score greater than 480.18 and less than

or equal to 552.89); level 4 (a score greater than 552.89 and less than or equal to 625.61); level 5 (a score greater than 625.61 and

less than or equal to 698.32); and level 6 (a score greater than 698.32).

*Refers to the mean of the data values for all Organization for Economic Cooperation and Development (OECD) countries, to which

each country contributes equally, regardless of the absolute size of the student population of each country.

*Results are for public school students only.

NOTE: Program for International Student Assessment (PISA) scores are reported on a scale from 0 to 1,000. Detail may not sum to

totals because of rounding.

SOURCE: Organization for Economic Cooperation and Development (OECD), Program for International Student Assessment

(PISA), 2012. (This table was prepared November 2013.)

Table 602.60. Average mathematics literacy scores of 15-year-old students and percentage attaining mathematics literacy proficiency levels, by country or other education system: 2012
[Standard errors appear in parentheses]

Percentage attaining mathematics literacy proficiency levels ¹											
Country or other education system	Average mathematics literacy score	Below level 2					At level 3	At level 4	At or above level 5		At level 6
		Total below level 2	Below level 1		At level 1	At level 2			Total at or above level 5		
			4	5						6	
1	2	3	4	5	6	7	8	9	10	11	
OECD average ²	494 (0.5)	23.0 (0.17)	8.0 (0.12)	15.0 (0.13)	22.5 (0.15)	23.7 (0.15)	18.1 (0.14)	12.7 (0.14)	9.3 (0.11)	3.3 (0.08)	
Australia.....	504 (1.6)	19.7 (0.60)	6.1 (0.35)	13.5 (0.57)	21.9 (0.76)	24.6 (0.65)	19.0 (0.50)	14.8 (0.64)	10.5 (0.43)	4.3 (0.36)	
Austria.....	506 (2.7)	18.7 (0.96)	5.7 (0.59)	13.0 (0.74)	21.9 (0.87)	24.2 (0.84)	21.0 (0.90)	14.3 (0.95)	11.0 (0.75)	3.3 (0.41)	
Belgium.....	515 (2.1)	19.0 (0.82)	7.0 (0.58)	12.0 (0.52)	18.4 (0.58)	22.4 (0.70)	20.6 (0.63)	19.5 (0.76)	13.4 (0.73)	6.1 (0.43)	
Canada.....	518 (1.8)	13.8 (0.55)	3.6 (0.29)	10.2 (0.45)	21.0 (0.64)	26.4 (0.63)	22.4 (0.49)	16.4 (0.64)	12.1 (0.47)	4.3 (0.29)	
Chile.....	423 (3.1)	51.5 (1.67)	22.0 (1.35)	29.5 (1.01)	25.3 (1.00)	15.4 (0.78)	6.2 (0.60)	1.6 (0.22)	1.5 (0.21)	0.1 (0.04)	
Czech Republic.....	499 (2.9)	21.0 (1.20)	6.8 (0.76)	14.2 (0.97)	21.7 (0.83)	24.8 (1.07)	19.7 (0.90)	12.9 (0.82)	9.6 (0.66)	3.2 (0.31)	
Denmark.....	500 (2.3)	16.8 (0.98)	4.4 (0.49)	12.5 (0.70)	24.4 (0.97)	29.0 (1.03)	19.8 (0.69)	10.0 (0.66)	8.3 (0.57)	1.7 (0.32)	
Estonia.....	521 (2.0)	10.5 (0.63)	2.0 (0.26)	8.6 (0.57)	22.0 (0.84)	29.4 (0.79)	23.4 (0.91)	14.6 (0.76)	11.0 (0.67)	3.6 (0.37)	
Finland.....	519 (1.9)	12.3 (0.67)	3.3 (0.39)	8.9 (0.49)	20.5 (0.66)	28.8 (0.78)	23.2 (0.78)	15.3 (0.74)	11.7 (0.60)	3.5 (0.30)	
France.....	495 (2.5)	22.4 (0.87)	8.7 (0.72)	13.6 (0.76)	22.1 (0.95)	23.8 (0.82)	18.9 (0.79)	12.9 (0.77)	9.8 (0.55)	3.1 (0.40)	
Germany.....	514 (2.9)	17.7 (1.03)	5.5 (0.65)	12.2 (0.81)	19.4 (0.81)	23.7 (0.79)	21.7 (0.73)	17.5 (0.94)	12.8 (0.71)	4.7 (0.49)	
Greece.....	453 (2.5)	35.7 (1.34)	14.5 (0.92)	21.2 (0.85)	27.2 (1.02)	22.1 (0.86)	11.2 (0.79)	3.9 (0.43)	3.3 (0.43)	0.6 (0.15)	
Hungary.....	477 (3.2)	28.1 (1.31)	9.9 (0.77)	18.2 (1.04)	25.3 (1.21)	23.0 (1.02)	14.4 (0.86)	9.3 (1.12)	7.1 (0.73)	2.1 (0.51)	
Iceland.....	493 (1.7)	21.5 (0.74)	7.5 (0.54)	14.0 (0.83)	23.6 (0.89)	25.7 (0.95)	18.1 (0.79)	11.2 (0.69)	8.9 (0.61)	2.3 (0.35)	
Ireland.....	501 (2.2)	16.9 (0.99)	4.8 (0.55)	12.1 (0.70)	23.9 (0.72)	28.2 (0.87)	20.3 (0.76)	10.7 (0.54)	8.5 (0.51)	2.2 (0.23)	
Israel.....	466 (4.7)	33.5 (1.68)	15.9 (1.23)	17.6 (0.93)	21.6 (0.93)	21.0 (0.87)	14.6 (0.88)	9.4 (0.99)	7.2 (0.74)	2.2 (0.39)	
Italy.....	485 (2.0)	24.7 (0.76)	8.5 (0.39)	16.1 (0.51)	24.1 (0.55)	24.6 (0.62)	16.7 (0.48)	9.9 (0.57)	7.8 (0.44)	2.2 (0.25)	
Japan.....	536 (3.6)	11.1 (0.98)	3.2 (0.49)	7.9 (0.69)	16.9 (0.85)	24.7 (1.00)	23.7 (0.89)	23.7 (1.46)	16.0 (0.89)	7.6 (0.84)	
Korea, Republic of.....	554 (4.6)	9.1 (0.95)	2.7 (0.46)	6.4 (0.62)	14.7 (0.85)	21.4 (0.99)	23.9 (1.23)	30.9 (1.83)	18.8 (0.92)	12.1 (1.26)	
Luxembourg.....	490 (1.1)	24.3 (0.54)	8.8 (0.54)	15.5 (0.54)	22.3 (0.72)	23.6 (0.72)	18.5 (0.58)	11.2 (0.42)	8.6 (0.38)	2.6 (0.25)	
Mexico.....	413 (1.4)	54.7 (0.82)	22.8 (0.68)	31.9 (0.58)	27.8 (0.53)	13.1 (0.41)	3.7 (0.23)	0.6 (0.08)	0.6 (0.07)	†	
Netherlands.....	523 (3.5)	14.8 (1.28)	3.8 (0.57)	11.0 (0.93)	17.9 (1.08)	24.2 (1.19)	23.8 (1.11)	19.3 (1.21)	14.9 (0.99)	4.4 (0.56)	
New Zealand.....	500 (2.2)	22.6 (0.80)	7.5 (0.58)	15.1 (0.66)	21.6 (0.83)	22.7 (0.76)	18.1 (0.84)	15.0 (0.88)	10.5 (0.75)	4.5 (0.40)	
Norway.....	489 (2.7)	22.3 (1.06)	7.2 (0.78)	15.1 (0.88)	24.3 (0.84)	25.7 (1.01)	18.3 (0.96)	9.4 (0.67)	7.3 (0.56)	2.1 (0.30)	
Poland.....	518 (3.6)	14.4 (0.89)	3.3 (0.38)	11.1 (0.77)	22.1 (0.93)	25.5 (0.94)	21.3 (1.12)	16.7 (1.33)	11.7 (0.78)	5.0 (0.80)	
Portugal.....	487 (3.8)	24.9 (1.52)	8.9 (0.79)	16.0 (0.98)	22.8 (0.88)	24.0 (0.84)	17.7 (0.88)	10.6 (0.79)	8.5 (0.73)	2.1 (0.33)	
Slovak Republic.....	482 (3.4)	27.5 (1.28)	11.1 (1.03)	16.4 (0.94)	23.1 (1.10)	22.1 (1.09)	16.4 (1.08)	11.0 (0.94)	7.8 (0.64)	3.1 (0.55)	
Slovenia.....	501 (1.2)	20.1 (0.65)	5.1 (0.48)	15.0 (0.69)	23.6 (0.95)	23.9 (0.96)	18.7 (0.80)	13.7 (0.55)	10.3 (0.64)	3.4 (0.43)	
Spain.....	484 (1.9)	23.6 (0.85)	7.8 (0.50)	15.8 (0.57)	24.9 (0.65)	26.0 (0.59)	17.6 (0.56)	8.0 (0.43)	6.7 (0.42)	1.3 (0.15)	
Sweden.....	478 (2.3)	27.1 (1.12)	9.5 (0.68)	17.5 (0.76)	24.7 (0.92)	23.9 (0.78)	16.3 (0.69)	8.0 (0.52)	6.5 (0.49)	1.6 (0.25)	
Switzerland.....	531 (3.0)	12.4 (0.70)	3.6 (0.35)	8.9 (0.59)	17.8 (1.06)	24.5 (1.02)	23.9 (0.80)	21.4 (1.19)	14.6 (0.78)	6.8 (0.89)	
Turkey.....	448 (4.8)	42.0 (1.93)	15.5 (1.08)	26.5 (1.28)	25.5 (1.16)	16.5 (1.05)	10.1 (1.09)	5.9 (1.13)	4.7 (0.81)	1.2 (0.46)	
United Kingdom.....	494 (3.3)	21.8 (1.30)	7.8 (0.77)	14.0 (0.76)	23.2 (0.81)	24.8 (0.85)	18.4 (0.78)	11.8 (0.81)	9.0 (0.63)	2.9 (0.42)	
United States.....	481 (3.6)	25.8 (1.39)	8.0 (0.73)	17.9 (0.98)	26.3 (0.84)	23.3 (0.93)	15.8 (0.91)	8.8 (0.78)	6.6 (0.61)	2.2 (0.34)	

See notes at end of table.

Table 602.60. Average mathematics literacy scores of 15-year-old students and percentage attaining mathematics literacy proficiency levels, by country or other education system: 2012—Continued
[Standard errors appear in parentheses]

Country or other education system	Average mathematics literacy score	Percentage attaining mathematics literacy proficiency levels ¹									
		Below level 2				At level 2	At level 3	At level 4	At or above level 5		At level 6
		Total below level 2	Below level 1	At level 1	At level 2				Total at or above level 5	At level 5	
1	2	3	4	5	6	7	8	9	10	11	
Non-OECD education systems											
Albania.....	394 (2.0)	60.7 (0.95)	32.5 (1.03)	28.1 (0.97)	22.9 (0.91)	12.0 (0.92)	3.6 (0.35)	0.8 (0.19)	0.8 (0.20)	0.8 (0.20)	†
Argentina.....	388 (3.5)	66.5 (2.03)	34.9 (1.95)	31.6 (1.22)	22.2 (1.36)	9.2 (0.88)	1.8 (0.35)	0.3 (0.10)	0.3 (0.10)	0.3 (0.10)	†
Brazil.....	391 (2.1)	67.1 (1.03)	35.2 (0.93)	31.9 (0.70)	20.4 (0.67)	8.9 (0.47)	2.9 (0.35)	0.8 (0.20)	0.7 (0.19)	0.7 (0.19)	†
Bulgaria.....	439 (4.0)	43.8 (1.78)	20.0 (1.45)	23.8 (0.95)	24.4 (1.12)	17.9 (0.91)	9.9 (0.83)	4.1 (0.62)	3.4 (0.50)	0.7 (0.19)	0.7 (0.19)
Chinese Taipei.....	560 (3.3)	12.8 (0.84)	4.5 (0.53)	8.3 (0.61)	13.1 (0.61)	17.1 (0.65)	19.7 (0.75)	37.2 (1.24)	19.2 (0.89)	18.0 (1.00)	18.0 (1.00)
Colombia.....	376 (2.9)	73.8 (1.43)	41.6 (1.71)	32.2 (1.05)	17.8 (0.90)	6.4 (0.61)	1.6 (0.28)	0.3 (0.11)	0.3 (0.10)	0.3 (0.10)	†
Connecticut-USA ³	506 (6.2)	20.6 (2.14)	6.8 (1.18)	13.8 (1.33)	20.0 (1.28)	24.3 (1.36)	18.6 (1.79)	16.4 (1.91)	11.5 (1.46)	4.9 (0.83)	4.9 (0.83)
Costa Rica.....	407 (3.0)	59.9 (1.87)	23.6 (1.68)	36.2 (1.22)	26.8 (1.29)	10.1 (0.99)	2.6 (0.46)	0.6 (0.19)	0.5 (0.16)	†	†
Croatia.....	471 (3.5)	29.9 (1.36)	9.5 (0.74)	20.4 (1.02)	26.7 (0.95)	22.9 (1.12)	13.5 (0.80)	7.0 (1.15)	5.4 (0.76)	1.6 (0.51)	1.6 (0.51)
Cyprus.....	440 (1.1)	42.0 (0.63)	19.0 (0.58)	23.0 (0.65)	25.5 (0.82)	19.2 (0.58)	9.6 (0.44)	3.7 (0.27)	3.1 (0.25)	0.6 (0.20)	0.6 (0.20)
Florida-USA ³	467 (5.8)	30.4 (2.65)	9.7 (1.44)	20.6 (1.87)	27.9 (1.42)	23.0 (1.64)	13.0 (1.34)	5.8 (1.18)	4.9 (1.04)	0.9 (0.39)	0.9 (0.39)
Hong Kong-China.....	561 (3.2)	8.5 (0.79)	2.6 (0.36)	5.9 (0.61)	12.0 (0.77)	19.7 (0.97)	26.1 (1.09)	33.7 (1.35)	21.4 (0.96)	12.3 (0.95)	12.3 (0.95)
Indonesia.....	375 (4.0)	75.7 (2.05)	42.3 (2.14)	33.4 (1.59)	16.8 (1.12)	5.7 (0.90)	1.5 (0.54)	†	†	†	†
Jordan.....	386 (3.1)	68.6 (1.50)	36.5 (1.59)	32.1 (0.95)	21.0 (1.04)	8.1 (0.63)	1.8 (0.33)	†	†	†	†
Kazakhstan.....	432 (3.0)	45.2 (1.70)	14.5 (0.90)	30.7 (1.40)	31.5 (0.94)	16.9 (1.11)	5.4 (0.79)	0.9 (0.29)	0.9 (0.27)	†	†
Latvia.....	491 (2.8)	19.9 (1.13)	4.8 (0.53)	15.1 (0.96)	26.6 (1.29)	27.8 (0.92)	17.6 (0.90)	8.0 (0.78)	6.5 (0.95)	1.5 (0.28)	1.5 (0.28)
Liechtenstein.....	535 (4.1)	14.1 (2.02)	3.5 (1.31)	10.6 (1.81)	15.2 (2.52)	22.7 (2.81)	23.2 (3.01)	24.8 (2.55)	17.4 (3.17)	7.4 (1.86)	7.4 (1.86)
Lithuania.....	479 (2.6)	26.0 (1.18)	8.7 (0.68)	17.3 (0.89)	25.9 (0.80)	24.6 (1.01)	15.4 (0.70)	8.1 (0.60)	6.6 (0.49)	1.4 (0.24)	1.4 (0.24)
Macao-China.....	538 (1.0)	10.8 (0.49)	3.2 (0.29)	7.6 (0.53)	16.4 (0.71)	24.0 (0.69)	24.4 (0.87)	24.3 (0.56)	16.8 (0.63)	7.6 (0.35)	7.6 (0.35)
Malaysia.....	421 (3.2)	51.8 (1.68)	23.0 (1.19)	28.8 (1.12)	26.0 (0.95)	14.9 (0.93)	6.0 (0.69)	1.3 (0.30)	1.2 (0.28)	0.1 (0.05)	0.1 (0.05)
Massachusetts-USA ³	514 (6.2)	17.8 (1.46)	5.3 (0.83)	12.5 (1.17)	20.4 (1.61)	24.3 (1.49)	18.9 (1.18)	18.5 (2.47)	12.7 (1.61)	5.8 (1.11)	5.8 (1.11)
Montenegro, Republic of.....	410 (1.1)	56.6 (1.02)	27.5 (0.64)	29.1 (1.14)	24.2 (1.06)	13.1 (0.73)	4.9 (0.48)	1.0 (0.20)	0.9 (0.20)	†	†
Peru.....	368 (3.7)	74.6 (1.75)	47.0 (1.79)	27.6 (0.88)	16.1 (1.00)	6.7 (0.68)	2.1 (0.38)	0.6 (0.21)	0.5 (0.20)	†	†
Qatar.....	376 (0.8)	69.6 (0.46)	47.0 (0.42)	22.6 (0.53)	15.2 (0.39)	8.8 (0.34)	4.5 (0.28)	2.0 (0.21)	1.7 (0.20)	0.3 (0.07)	0.3 (0.07)
Romania.....	445 (3.8)	40.8 (1.93)	14.0 (1.15)	26.8 (1.23)	28.3 (1.09)	19.2 (1.07)	8.4 (0.81)	3.2 (0.61)	2.6 (0.45)	0.6 (0.27)	0.6 (0.27)
Russian Federation.....	482 (3.0)	24.0 (1.13)	7.5 (0.70)	16.5 (0.80)	26.6 (0.99)	26.0 (0.97)	15.7 (0.78)	7.8 (0.85)	6.3 (0.64)	1.5 (0.31)	1.5 (0.31)
Serbia, Republic of.....	449 (3.4)	38.9 (1.54)	15.5 (1.16)	23.4 (0.93)	26.5 (1.12)	19.5 (1.03)	10.5 (0.69)	4.6 (0.71)	3.5 (0.52)	1.1 (0.31)	1.1 (0.31)
Shanghai-China.....	613 (3.3)	3.8 (0.55)	0.8 (0.21)	2.9 (0.46)	7.5 (0.64)	13.1 (0.77)	20.2 (0.83)	55.4 (1.37)	24.6 (1.04)	30.8 (1.24)	30.8 (1.24)
Singapore.....	573 (1.3)	8.3 (0.48)	2.2 (0.23)	6.1 (0.40)	12.2 (0.68)	17.5 (0.66)	22.0 (0.62)	40.0 (0.71)	21.0 (0.58)	19.0 (0.51)	19.0 (0.51)
Thailand.....	427 (3.4)	49.7 (1.74)	19.1 (1.07)	30.6 (1.20)	27.3 (1.00)	14.5 (1.15)	5.8 (0.74)	2.6 (0.51)	2.0 (0.38)	0.5 (0.19)	0.5 (0.19)
Tunisia.....	388 (3.9)	67.7 (1.83)	36.5 (1.88)	31.3 (1.09)	21.1 (1.17)	8.0 (0.79)	2.3 (0.68)	0.8 (0.37)	0.7 (0.32)	†	†
United Arab Emirates.....	434 (2.4)	46.3 (1.22)	20.5 (0.92)	25.8 (0.81)	24.9 (0.89)	16.9 (0.64)	8.5 (0.54)	3.5 (0.29)	2.9 (0.25)	0.5 (0.11)	0.5 (0.11)
Uruguay.....	409 (2.8)	55.8 (1.31)	29.2 (1.20)	26.5 (0.76)	23.0 (0.93)	14.4 (0.52)	5.4 (0.60)	1.4 (0.32)	1.3 (0.28)	†	†
Vietnam.....	511 (4.8)	14.2 (1.75)	3.6 (0.90)	10.6 (1.26)	22.8 (1.28)	28.4 (1.52)	21.3 (1.22)	13.3 (1.47)	9.8 (0.99)	3.5 (0.75)	3.5 (0.75)

†Not applicable.

#Rounds to zero.

Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 and 50 percent.

†Reporting standards not met. Either there are too few cases for a reliable estimate or the coefficient of variation (CV) is 50 percent or greater.

*To reach a particular proficiency level, a student must correctly answer a majority of items at that level. Students were classified into mathematics literacy levels according to their scores. Exact cut scores are as follows: below level 1 (a score less than or equal to 357.77); level 1 (a score greater than 357.77 and less than or equal to 420.07); level 2 (a score greater than 420.07 and less than or equal to 482.38); level 3 (a score greater than 482.38 and less than or equal to 544.68); level 4 (a score greater than 544.68 and

less than or equal to 606.99); level 5 (a score greater than 606.99 and less than or equal to 669.30); and level 6 (a score greater than 669.30).

*Refers to the mean of the data values for all Organization for Economic Cooperation and Development (OECD) countries, to which each country contributes equally, regardless of the absolute size of the student population of each country.

*Results are for public school students only.

NOTE: Program for International Student Assessment (PISA) scores are reported on a scale from 0 to 1,000. Detail may not sum to totals because of rounding.

SOURCE: Organization for Economic Cooperation and Development (OECD), Program for International Student Assessment (PISA), 2012. (This table was prepared November 2013.)

Table 602.70. Average science literacy scores of 15-year-old students and percentage attaining science literacy proficiency levels, by country or other education system: 2012
[Standard errors appear in parentheses]

Country or other education system	Average science literacy score	Percentage attaining science literacy proficiency levels ¹									
		Below level 2					At level 2	At level 3	At level 4	At or above level 5	
		Total below level 2	Below level 1	Below level 1	At level 1	At level 1				Total at or above level 5	At level 5
1	2	3	4	5	6	7	8	9	10	11	At level 6
OECD average²	501	17.8	4.8	13.0	24.5	28.8	20.5	8.4	7.2	1.1	0.04
Australia	521	13.6	3.4	10.2	21.5	28.5	22.8	13.6	10.9	2.6	(0.25)
Austria	506	15.8	3.6	12.2	24.3	30.1	21.9	7.9	7.0	0.8	(0.20)
Belgium	505	17.7	5.9	11.8	21.5	28.7	23.0	11.3	9.5	0.9	(0.16)
Canada	525	10.4	2.4	8.0	21.0	32.0	25.3	11.3	9.5	1.8	(0.20)
Chile	445	34.5	8.1	26.3	34.6	22.4	7.5	1.0	1.0	#	(†)
Czech Republic	508	13.8	3.3	10.5	24.7	31.7	22.2	7.6	6.7	0.9	(0.18)
Denmark	498	16.7	4.7	12.0	25.7	31.3	19.6	6.8	6.1	0.7	(0.17)
Estonia	541	5.0	0.5	4.5	19.0	34.5	28.7	12.8	11.1	1.7	(0.25)
Finland	545	7.7	1.8	5.9	16.8	29.6	28.8	17.1	13.9	3.2	(0.38)
France	499	18.7	6.1	12.6	22.9	29.2	21.3	7.9	6.9	1.0	(0.21)
Germany	524	12.2	2.9	9.3	20.5	28.9	26.2	12.2	10.6	1.6	(0.28)
Greece	467	25.5	7.4	18.1	31.0	28.8	12.2	2.5	2.3	±	(†)
Hungary	494	18.0	4.1	14.0	26.4	30.9	18.7	5.9	5.5	0.5	(0.18)
Iceland	478	24.0	8.0	16.0	27.5	27.2	16.2	5.2	4.6	0.6	(0.17)
Ireland	522	11.1	2.6	8.5	22.0	31.1	25.0	10.7	9.3	1.5	(0.25)
Israel	470	28.9	11.2	17.7	24.8	24.4	16.1	5.8	5.2	0.6	(0.22)
Italy	494	18.7	4.9	13.8	26.0	30.1	19.1	6.1	5.5	0.6	(0.08)
Japan	547	8.5	2.0	6.4	16.3	27.5	29.5	18.2	14.8	3.4	(0.49)
Korea, Republic of	538	6.6	1.2	5.5	18.0	33.6	30.1	11.7	10.6	1.1	(0.39)
Luxembourg	491	22.2	7.2	15.1	24.2	26.2	19.2	8.2	7.0	1.2	(0.17)
Mexico	415	47.0	12.6	34.4	37.0	13.8	2.1	0.1	0.1	±	(†)
Netherlands	522	13.1	3.1	10.1	20.1	29.1	25.8	11.8	10.5	1.3	(0.28)
New Zealand	516	16.3	4.7	11.6	21.7	26.4	22.3	13.4	10.7	2.7	(0.25)
Norway	495	19.6	6.0	13.6	24.8	28.9	19.0	7.5	6.4	1.1	(0.24)
Poland	526	9.0	1.3	7.7	22.5	33.1	24.5	10.8	9.1	1.7	(0.35)
Portugal	489	19.0	4.7	14.3	27.3	31.4	17.8	4.5	4.2	0.3	(0.11)
Slovak Republic	471	26.9	9.2	17.6	27.0	26.2	15.0	4.9	4.3	0.6	(0.25)
Slovenia	514	12.9	2.4	10.4	24.5	30.0	23.0	9.6	8.4	1.2	(0.24)
Spain	496	15.7	3.7	12.0	27.3	32.8	19.4	4.8	4.5	0.3	(0.08)
Sweden	485	22.2	7.3	15.0	26.2	28.0	17.2	6.3	5.6	0.7	(0.14)
Switzerland	515	12.8	3.0	9.8	22.8	31.3	23.7	9.3	8.3	1.0	(0.22)
Turkey	463	26.4	4.4	21.9	35.4	25.1	11.3	1.8	1.8	±	(†)
United Kingdom	514	15.0	4.3	10.7	22.4	28.4	23.0	11.2	9.3	1.8	(0.34)
United States	497	18.1	4.2	14.0	26.7	28.9	18.8	7.5	6.3	1.1	(0.20)

See notes at end of table.

Table 602.70. Average science literacy scores of 15-year-old students and percentage attaining science literacy proficiency levels, by country or other education system: 2012—Continued
[Standard errors appear in parentheses]

Country or other education system		Average science literacy score	Percentage attaining science literacy proficiency levels ¹									
			Below level 2				At level 2	At level 3	At level 4	At or above level 5		At level 6
			Total below level 2	Below level 1	Below level 1	Below level 1				Total at or above level 5	At level 5	
1		2	3	4	5	6	7	8	9	10	11	
Non-OECD education systems												
Albania.....	397 (2.4)	53.1 (1.20)	23.5 (1.04)	29.6 (0.94)	28.5 (1.19)	14.4 (0.78)	3.6 (0.41)	0.4 ! (0.13)	0.4 ! (0.14)	+	(+)	
Argentina.....	406 (3.9)	50.9 (2.21)	19.8 (1.39)	31.0 (1.46)	31.1 (1.33)	14.8 (1.20)	3.0 (0.43)	0.2 ! (0.10)	0.2 ! (0.10)	+	(+)	
Brazil.....	405 (2.1)	53.7 (1.14)	18.6 (0.78)	35.1 (0.79)	30.7 (0.78)	12.5 (0.68)	2.8 (0.37)	0.3 ! (0.10)	0.3 ! (0.10)	+	(+)	
Bulgaria.....	446 (4.8)	36.9 (2.02)	14.4 (1.34)	22.5 (1.15)	26.3 (1.07)	22.5 (1.09)	11.2 (0.84)	3.1 (0.58)	2.8 (0.50)	0.3 ! (0.12)	(+)	
Chinese Taipei.....	523 (2.3)	9.8 (0.77)	1.6 (0.25)	8.2 (0.64)	20.8 (0.89)	33.7 (0.97)	27.3 (1.00)	8.3 (0.61)	7.8 (0.56)	0.6 (0.13)	(+)	
Colombia.....	399 (3.1)	56.2 (1.61)	19.8 (1.36)	36.3 (1.10)	30.8 (1.08)	11.0 (0.83)	1.9 (0.25)	+	+	+	(+)	
Connecticut-USA ³	521 (5.7)	13.5 (1.70)	3.3 (0.82)	10.2 (1.36)	21.4 (1.58)	29.4 (1.69)	22.8 (1.46)	12.9 (1.34)	10.7 (1.13)	2.2 (0.60)	(+)	
Costa Rica.....	429 (2.9)	39.3 (1.75)	8.6 (0.79)	30.7 (1.30)	39.2 (1.25)	17.8 (1.12)	3.4 (0.57)	0.2 ! (0.10)	0.2 ! (0.11)	+	(+)	
Croatia.....	491 (3.1)	17.3 (0.93)	3.2 (0.38)	14.0 (0.74)	29.1 (0.99)	31.4 (1.19)	17.6 (1.16)	4.6 (0.79)	4.3 (0.75)	+	(+)	
Cyprus.....	438 (1.2)	38.0 (0.67)	14.4 (0.47)	23.7 (0.66)	30.3 (0.89)	21.3 (0.73)	8.4 (0.43)	2.0 (0.29)	1.8 (0.29)	0.2 ! (0.08)	(+)	
Florida-USA ³	485 (6.4)	21.3 (2.15)	5.1 (0.96)	16.1 (1.61)	28.4 (1.61)	28.2 (2.00)	16.6 (1.64)	5.5 (1.05)	4.9 (1.01)	+	(+)	
Hong Kong-China.....	555 (2.6)	5.6 (0.62)	1.2 (0.23)	4.4 (0.52)	13.0 (0.72)	29.8 (1.06)	34.9 (0.99)	16.7 (1.05)	14.9 (0.91)	1.8 (0.36)	(+)	
Indonesia.....	382 (3.8)	66.6 (2.20)	24.7 (1.96)	41.9 (1.42)	26.3 (1.54)	6.5 (1.02)	+	+	+	+	(+)	
Jordan.....	409 (3.1)	49.6 (1.55)	18.2 (1.21)	31.4 (0.96)	32.2 (1.04)	15.0 (0.86)	3.0 (0.57)	0.2 ! (0.10)	0.2 ! (0.11)	+	(+)	
Kazakhstan.....	425 (3.0)	41.9 (1.83)	11.3 (0.99)	30.7 (1.49)	36.8 (1.16)	17.8 (1.19)	3.3 (0.45)	0.2 ! (0.09)	0.2 ! (0.09)	+	(+)	
Latvia.....	502 (2.8)	12.4 (0.96)	1.8 (0.39)	10.5 (0.90)	28.2 (1.20)	35.1 (1.02)	20.0 (1.05)	4.4 (0.51)	4.0 (0.47)	0.3 ! (0.13)	(+)	
Liechtenstein.....	525 (3.5)	10.4 (1.96)	+	9.6 (1.94)	22.0 (3.94)	30.8 (3.79)	26.7 (2.58)	10.1 (1.80)	9.1 (1.47)	+	(+)	
Lithuania.....	496 (2.6)	16.1 (1.08)	3.4 (0.48)	12.7 (0.84)	27.6 (1.94)	32.9 (1.08)	18.3 (0.88)	5.1 (0.49)	4.7 (0.47)	0.4 (0.09)	(+)	
Macao-China.....	521 (0.8)	8.8 (0.46)	1.4 (0.20)	7.4 (0.49)	22.2 (0.60)	36.2 (0.81)	26.2 (0.73)	6.7 (0.36)	6.2 (0.35)	0.4 (0.10)	(+)	
Malaysia.....	420 (3.0)	45.5 (1.55)	14.5 (1.13)	31.0 (1.21)	33.9 (1.10)	16.5 (1.07)	3.7 (0.54)	0.3 ! (0.12)	0.3 ! (0.13)	+	(+)	
Massachusetts-USA ³	527 (6.0)	11.5 (1.18)	2.6 (0.65)	8.9 (1.03)	21.2 (1.96)	29.4 (1.50)	23.8 (1.84)	14.2 (1.94)	11.3 (1.48)	2.9 (0.73)	(+)	
Montenegro, Republic of.....	410 (1.1)	50.7 (0.72)	18.7 (0.74)	32.0 (0.98)	29.7 (0.94)	15.4 (0.76)	3.8 (0.47)	0.4 ! (0.14)	0.4 ! (0.14)	+	(+)	
Peru.....	373 (3.6)	68.5 (1.95)	31.5 (1.61)	37.0 (1.26)	23.5 (1.29)	7.0 (0.85)	1.0 (0.28)	+	+	+	(+)	
Qatar.....	384 (0.7)	62.6 (0.53)	34.6 (0.38)	28.0 (0.58)	19.6 (0.71)	11.2 (0.39)	5.1 (0.40)	1.5 (0.12)	1.3 (0.11)	0.1 (0.04)	(+)	
Romania.....	439 (3.3)	37.3 (1.64)	8.7 (0.77)	28.7 (1.32)	34.6 (1.23)	21.0 (1.12)	6.2 (0.77)	0.9 ! (0.29)	0.9 (0.26)	+	(+)	
Russian Federation.....	486 (2.9)	18.8 (1.15)	3.6 (0.39)	15.1 (0.96)	30.1 (1.08)	31.2 (0.89)	15.7 (0.98)	4.3 (0.59)	3.9 (0.51)	0.3 ! (0.16)	(+)	
Serbia, Republic of.....	445 (3.4)	35.0 (1.81)	10.3 (0.99)	24.7 (1.15)	32.4 (1.21)	22.8 (1.06)	8.1 (0.63)	1.7 (0.36)	1.6 (0.35)	+	(+)	
Shanghai-China.....	580 (3.0)	2.7 (0.41)	0.3 ! (0.11)	2.4 (0.36)	10.0 (0.86)	24.6 (0.87)	35.5 (1.11)	27.2 (1.32)	23.0 (1.09)	4.2 (0.57)	(+)	
Singapore.....	551 (1.5)	9.6 (0.51)	2.2 (0.27)	7.4 (0.48)	16.7 (0.73)	24.0 (0.73)	27.0 (0.87)	22.7 (0.81)	16.9 (0.94)	5.8 (0.41)	(+)	
Thailand.....	444 (2.9)	33.6 (1.56)	7.0 (0.64)	26.6 (1.33)	37.5 (1.07)	21.6 (1.14)	6.4 (0.74)	0.9 (0.27)	0.9 ! (0.27)	+	(+)	
Tunisia.....	398 (3.5)	55.3 (1.87)	21.3 (1.45)	34.0 (1.07)	31.1 (1.36)	11.7 (1.00)	1.8 (0.49)	+	+	+	(+)	
United Arab Emirates.....	448 (2.8)	35.2 (1.30)	11.3 (0.76)	23.8 (0.99)	29.9 (0.83)	22.3 (0.88)	10.1 (0.60)	2.5 (0.27)	2.3 (0.25)	0.3 (0.07)	(+)	
Uruguay.....	416 (2.8)	46.9 (1.25)	19.7 (1.06)	27.2 (0.92)	29.3 (1.00)	17.1 (0.95)	5.6 (0.53)	1.0 (0.25)	1.0 (0.24)	+	(+)	
Vietnam.....	528 (4.3)	6.7 (1.09)	0.9 ! (0.26)	5.8 (0.90)	20.7 (1.40)	37.5 (1.48)	27.0 (1.50)	8.1 (1.09)	7.1 (0.90)	1.0 ! (0.32)	(+)	

¹Not applicable.²Rounds to zero.³Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 and 50 percent.⁴Reporting standards not met. Either there are too few cases for a reliable estimate or the coefficient of variation (CV) is 50 percent or greater.⁵To reach a particular proficiency level, a student must correctly answer a majority of items at that level. Students were classified into science literacy levels according to their scores. Exact cut scores are as follows: below level 1 (a score less than or equal to 334.94); level 1 (a score greater than 334.94 and less than or equal to 409.54); level 2 (a score greater than 409.54 and less than or equal to 484.14); level 3 (a score greater than 484.14 and less than or equal to 558.73); level 4 (a score greater than 558.73 and less than or equal to 633.33); level 5 (a score greater than 633.33 and less than or equal to 707.93); and level 6 (a score greater than 707.93).less than or equal to 633.33; level 5 (a score greater than 633.33 and less than or equal to 707.93); and level 6 (a score greater than 707.93).
²Refers to the mean of the data values for all Organization for Economic Cooperation and Development (OECD) countries, to which each country contributes equally, regardless of the absolute size of the student population of each country.
³Results are for public school students only.NOTE: Program for International Student Assessment (PISA) scores are reported on a scale from 0 to 1,000. Detail may not sum to totals because of rounding.
SOURCE: Organization for Economic Cooperation and Development (OECD), Program for International Student Assessment (PISA), 2012. (This table was prepared November 2013.)

Table 603.10. Percentage of the population 25 to 64 years old who completed high school, by age group and country: Selected years, 2001 through 2014

[Standard errors appear in parentheses]

Country	2001		2005		2012		2014					
	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	35 to 44 years old	45 to 54 years old	55 to 64 years old	
1	2	3	4	5	6	7	8	9	10	11	12	
OECD average ¹	64.2	74.0	72.8	82.6	75.2 (0.03)	82.5 (0.07)	76.3 (0.03)	83.2 (0.07)	80.3 (0.06)	74.2 (0.07)	66.2 (0.08)	
Australia.....	58.9	70.7	65.0	78.6	76.4 (0.25)	86.6 (0.41)	77.1 (0.25)	86.7 (0.40)	82.3 (0.45)	71.2 (0.53)	65.3 (0.60)	
Austria ^{2,3}	75.7	83.3	80.6	87.5	83.1 (0.24)	88.6 (0.50)	83.9 (0.20)	90.0 (0.34)	86.1 (0.37)	83.4 (0.34)	75.2 (0.48)	
Belgium ²	58.5	75.3	66.1	80.9	71.6 (0.19)	81.9 (0.35)	73.6 (0.21)	82.3 (0.38)	80.4 (0.37)	72.4 (0.39)	58.7 (0.46)	
Canada.....	81.9	89.3	85.2	90.8	89.1 (0.13)	92.2 (0.19)	90.0 (0.12)	92.6 (0.19)	92.8 (0.18)	89.2 (0.20)	85.4 (0.25)	
Chile ^{2,4,5,6}	45.9	57.9	50.0	64.3	57.5 (0.16)	76.6 (0.27)	61.4 (0.15)	80.0 (0.24)	65.9 (0.29)	53.4 (0.29)	41.7 (0.33)	
Czech Republic.....	86.2	92.5	89.9	93.9	92.5 (0.07)	93.7 (0.15)	93.2 (0.07)	94.6 (0.15)	95.9 (0.11)	94.1 (0.14)	87.6 (0.18)	
Denmark.....	80.2	86.3	81.0	87.4	77.9 (0.16)	81.7 (0.36)	79.6 (0.16)	82.2 (0.36)	84.0 (0.30)	80.4 (0.28)	71.6 (0.34)	
Estonia.....	—	—	89.1	87.4	89.8 (0.41)	86.4 (0.95)	91.0 (0.25)	89.0 (0.57)	89.0 (0.52)	94.0 (0.40)	92.0 (0.47)	
Finland.....	73.8	86.8	78.8	89.4	84.8 (0.18)	90.0 (0.32)	86.5 (0.12)	90.2 (0.22)	90.3 (0.21)	89.0 (0.21)	77.2 (0.27)	
France ^{6,7}	63.9	78.4	66.3	81.1	72.5 (0.09)	83.3 (0.16)	74.8 (0.08)	85.3 (0.15)	81.1 (0.15)	72.3 (0.16)	61.0 (0.18)	
Germany.....	82.6	85.5	83.1	84.1	86.3 (0.12)	86.8 (0.32)	86.9 (0.12)	87.3 (0.32)	87.0 (0.32)	87.4 (0.28)	85.8 (0.31)	
Greece.....	51.4	72.6	57.1	73.6	68.5 (0.13)	82.5 (0.23)	68.3 (0.13)	81.7 (0.24)	75.1 (0.24)	64.7 (0.26)	49.8 (0.27)	
Hungary.....	70.2	80.9	76.4	85.0	82.1 (0.10)	87.5 (0.18)	83.1 (0.10)	87.0 (0.20)	85.6 (0.18)	82.6 (0.21)	77.2 (0.21)	
Iceland.....	56.9	61.2	62.9	69.0	71.0 (0.48)	75.0 (0.87)	73.3 (0.48)	73.8 (0.95)	77.7 (0.92)	72.9 (0.95)	68.1 (1.02)	
Ireland.....	57.6	73.4	64.5	81.1	74.6 (0.13)	85.9 (0.19)	78.8 (0.22)	90.1 (0.25)	85.6 (0.26)	74.4 (0.36)	58.9 (0.46)	
Israel.....	—	—	79.2	85.7	84.5 (0.15)	90.3 (0.23)	85.4 (0.14)	90.8 (0.22)	87.0 (0.26)	82.5 (0.31)	78.2 (0.35)	
Italy.....	43.3	57.5	50.1	65.9	57.2 (0.14)	71.8 (0.37)	59.3 (0.15)	73.8 (0.38)	64.7 (0.31)	54.0 (0.28)	46.1 (0.29)	
Japan.....	83.1	93.6	—	—	(t)	(t)	(t)	(t)	(t)	(t)	(t)	
Korea, Republic of.....	68.0	94.6	75.5	97.3	82.4 (0.20)	98.2 (0.14)	85.0 (0.18)	98.3 (0.13)	97.4 (0.15)	84.1 (0.35)	54.4 (0.63)	
Luxembourg.....	52.7	59.4	65.9	76.5	78.3 (0.31)	86.1 (0.58)	82.0 (0.44)	86.9 (0.92)	86.4 (0.77)	79.3 (0.86)	73.1 (0.97)	
Mexico.....	21.6	25.4	21.3	24.0	37.3 (0.06)	45.8 (0.12)	33.7 (0.06)	45.6 (0.12)	33.3 (0.12)	28.3 (0.13)	19.9 (0.14)	
Netherlands ^{2,7}	65.0	74.0	71.8	81.3	73.4 (0.09)	83.3 (0.17)	75.9 (0.09)	85.2 (0.17)	80.2 (0.17)	74.1 (0.16)	64.9 (0.18)	
New Zealand.....	75.7	81.8	78.7	85.2	74.1 (0.37)	80.0 (0.72)	74.1 (0.37)	81.1 (0.69)	78.1 (0.68)	71.0 (0.72)	65.6 (0.81)	
Norway ²	85.2	93.4	77.2	83.5	82.1 (0.16)	82.1 (0.36)	81.9 (0.17)	81.4 (0.36)	86.0 (0.29)	79.7 (0.33)	80.4 (0.35)	
Poland.....	45.9	51.7	51.4	62.5	89.6 (0.06)	94.4 (0.10)	90.5 (0.07)	94.2 (0.11)	93.0 (0.12)	90.8 (0.13)	84.2 (0.15)	
Portugal.....	19.9	32.5	26.5	42.8	37.6 (0.17)	57.9 (0.39)	43.3 (0.17)	64.7 (0.38)	52.3 (0.32)	34.2 (0.30)	22.9 (0.27)	
Slovak Republic.....	85.1	93.7	85.7	93.0	91.7 (0.23)	94.1 (0.41)	90.8 (0.12)	92.5 (0.25)	94.0 (0.21)	91.6 (0.24)	84.5 (0.29)	
Slovenia.....	—	—	80.3	91.2	85.0 (0.19)	94.2 (0.27)	85.7 (0.18)	93.9 (0.27)	90.7 (0.33)	84.1 (0.36)	74.6 (0.44)	
Spain.....	40.0	57.1	48.8	63.9	54.6 (0.08)	64.2 (0.17)	56.6 (0.28)	65.6 (0.61)	65.4 (0.51)	53.0 (0.52)	38.6 (0.56)	
Sweden.....	80.6	90.7	83.6	90.6	87.5 (0.08)	90.8 (0.14)	81.6 (0.09)	81.8 (0.20)	86.2 (0.17)	83.8 (0.17)	73.7 (0.21)	
Switzerland.....	87.4	91.8	83.0	87.9	86.3 (0.13)	89.4 (0.28)	88.0 (0.11)	91.0 (0.24)	88.8 (0.21)	87.4 (0.20)	84.3 (0.25)	
Turkey.....	24.3	30.2	27.2	35.7	33.9 (0.09)	45.9 (0.18)	35.6 (0.09)	49.5 (0.19)	35.3 (0.18)	24.6 (0.17)	21.0 (0.18)	
United Kingdom ^{9,7,8}	63.0	68.0	66.7	72.9	78.1 (0.09)	84.8 (0.16)	79.2 (0.09)	86.2 (0.16)	81.6 (0.17)	76.5 (0.18)	71.3 (0.20)	
United States.....	87.7	88.1	87.8	86.7	89.3 (0.16)	89.3 (0.29)	89.6 (0.15)	90.0 (0.29)	89.0 (0.26)	89.4 (0.29)	89.9 (0.29)	
Other reporting countries												
Argentina.....	41.9	51.5	—	—	(t)	(t)	(t)	(t)	(t)	(t)	(t)	
Brazil ^{4,6}	27.2	31.8	29.5	38.0	44.9 (0.11)	58.9 (0.19)	46.4 (0.26)	60.8 (0.33)	47.6 (0.35)	40.0 (0.37)	28.4 (0.40)	
China ⁹	14.9	15.8	—	—	24.5 (—)	35.7 (—)	(t)	(t)	(t)	(t)	(t)	
Colombia ⁵	—	—	—	—	41.8 (—)	(t)	52.0 (0.25)	67.4 (0.31)	53.3 (0.37)	41.7 (0.39)	32.9 (0.48)	
Costa Rica.....	—	—	—	—	(t)	(t)	39.6 (—)	47.2 (—)	37.3 (—)	35.7 (—)	34.7 (—)	
Indonesia ⁵	21.4	32.8	—	—	31.0 (—)	40.0 (—)	(t)	(t)	(t)	(t)	(t)	
Latvia.....	—	—	—	—	89.1 (0.27)	85.4 (0.69)	89.5 (0.33)	86.0 (0.72)	87.5 (0.64)	94.7 (0.38)	89.7 (0.53)	
Lithuania.....	—	—	—	—	(t)	(t)	91.2 (0.15)	88.4 (0.44)	88.3 (0.36)	95.8 (0.19)	91.4 (0.29)	
Russian Federation ^{6,10}	88.0	91.0	—	—	94.3 (0.05)	94.4 (0.10)	94.7 (0.05)	94.8 (0.10)	95.2 (0.10)	96.2 (0.08)	92.3 (0.14)	
Saudi Arabia ^{4,6}	—	—	34.2	—	(t)	(t)	51.0 (—)	64.8 (—)	49.0 (—)	39.9 (—)	27.7 (—)	
South Africa.....	—	—	—	—	64.9 (—)	77.4 (—)	(t)	(t)	(t)	(t)	(t)	

—Not available.

†Not applicable.

¹Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year.

²Data from 2000 reported for 2001.

³Data in 2005 columns include some International Standard Classification of Education (ISCED) 3C short secondary programs.

⁴Data from 2004 reported for 2005.

⁵Data from 2011 reported for 2012.

⁶Data from 2013 reported for 2014.

⁷Data in 2001 columns include some short secondary (ISCED 3C) programs.

⁸Data for 2014 include some persons (18 percent of the total) who have completed a sufficient volume and standard of programs, any one of which individually would be classified as a program that only partially completes the high school (or upper secondary) level of education.

⁹Data from 2010 reported for 2012.

¹⁰Data from 2002 reported for 2001.

NOTE: The International Standard Classification of Education (ISCED) was revised in 2011. The previous version, ISCED 1997, was used to calculate all data for 2012 and earlier years. For most countries, data for 2014 were calculated using ISCED 2011 and may not be comparable to data for earlier years. (The countries for which 2014 data were calculated using ISCED 1997 are Brazil, the Russian Federation, and Saudi Arabia.) Data in this table refer to degrees classified as ISCED level 3, which corresponds to high school completion in the United States, with the following exceptions: Programs classified under ISCED 1997 as level 3C short programs do not correspond to high school completion; these short programs are excluded from this table except where otherwise noted. Programs classified under ISCED 2011 as only partially completing level 3 are also excluded except where otherwise noted. Standard errors are not available for 2001 and 2005.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, selected years, 2002 through 2015. (This table was prepared January 2016.)

Table 603.20. Percentage of the population 25 to 64 years old who attained any postsecondary degree, by age group and country: Selected years, 2001 through 2014
[Standard errors appear in parentheses]

Country	2001		2005		2008		2010		2012		2014				2015 to 64 years old	
	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	35 to 44 years old	45 to 54 years old	55 to 64 years old			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
OECD average ¹	22.5	27.8	26.2	32.1	28.9	35.5	30.7	37.8	32.2	39.2	33.5	40.7	37.7	29.6	25.0	
Australia	29.0	33.5	31.7	38.1	36.1	42.0	37.6	44.4	41.3	47.2	41.9	48.1	45.9	38.0	33.5	
Austria	14.1	14.3	17.8	19.7	18.1	19.4	19.3	20.8	20.0	23.0	29.9	38.4	33.2	26.5	21.3	
Belgium	27.6	37.5	31.0	40.6	32.3	42.3	35.0	43.8	35.3	43.0	36.9	44.2	42.2	34.5	26.3	
Canada	41.9	50.5	46.1	53.8	48.8	55.9	50.6	56.5	52.6	57.3	53.6	57.7	60.6	51.3	45.1	
Chile ^{2,3,4}	—	—	13.2	18.3	24.2	33.7	26.8	38.5	17.8	22.5	21.1	27.3	24.2	16.9	14.5	
Czech Republic	11.1	11.3	13.1	14.2	14.5	17.7	16.8	17.6	19.3	27.8	21.5	29.9	21.2	19.6	15.1	
Denmark	28.4	29.0	33.5	39.8	34.5	43.1	33.3	37.6	34.8	40.2	35.8	42.1	40.6	32.6	29.1	
Estonia	—	—	33.3	32.8	34.3	35.8	35.3	37.8	37.3	39.8	38.0	40.0	39.0	35.0	36.0	
Finland	32.3	38.2	34.6	37.5	36.6	38.3	38.1	39.2	39.7	39.7	41.8	40.3	49.9	43.7	34.2	
France	23.0	34.2	24.8	39.3	27.4	40.7	29.0	42.9	30.9	42.9	32.1	44.1	39.1	25.6	20.3	
Germany	23.2	21.8	24.6	22.5	25.4	23.9	26.6	26.1	28.1	29.0	27.1	28.4	28.5	26.2	25.5	
Greece	18.0	24.0	21.3	25.4	23.4	28.2	24.6	30.9	26.7	34.7	28.1	38.7	27.1	25.6	21.1	
Hungary	14.0	14.7	17.1	19.6	19.2	24.0	20.1	26.0	22.0	30.4	23.4	32.1	24.5	20.3	16.9	
Iceland	24.6	26.5	30.5	35.8	31.3	32.8	32.5	36.2	35.2	38.4	37.1	40.6	42.0	36.1	28.8	
Ireland	23.6	47.8	29.1	40.6	33.9	45.1	37.3	48.2	39.7	49.2	44.6	50.8	49.0	34.2	24.3	
Israel	—	—	45.8	50.0	44.0	42.3	45.6	44.2	46.4	44.5	48.5	46.0	52.8	47.5	47.4	
Italy	10.0	11.8	12.2	16.1	14.4	19.9	14.8	20.7	15.7	22.3	16.9	24.2	19.4	12.9	12.3	
Japan ⁵	34.1	47.7	39.9	53.2	42.8	55.1	44.8	56.7	46.6	58.6	47.8	56.8	48.1	32.1	28.9	
Korea, Republic of	25.0	39.5	31.6	51.0	36.5	57.9	39.7	65.0	41.7	66.7	44.6	67.7	56.4	33.3	20.8	
Luxembourg	18.1	23.4	26.5	37.0	27.7	38.7	35.5	44.2	39.1	49.9	45.9	52.9	55.8	39.7	17.3	
Mexico	15.1	17.9	14.9	18.1	16.0	19.7	17.4	21.8	18.1	24.1	18.5	24.6	17.5	15.8	13.2	
Netherlands	23.2	26.5	30.1	35.4	32.2	39.8	32.4	40.8	34.4	43.0	34.4	44.3	37.6	30.1	26.9	
New Zealand	29.0	28.5	27.1	30.8	40.0	47.6	40.7	46.4	40.6	46.9	35.6	40.4	40.7	32.1	28.9	
Norway	30.2	37.9	32.7	40.9	36.0	45.6	37.3	47.3	38.6	45.0	41.8	49.0	48.7	36.2	31.7	
Poland	11.9	15.2	16.9	25.5	19.6	32.1	22.9	37.4	24.5	40.8	27.0	42.6	31.9	18.2	13.7	
Portugal	9.2	13.7	12.8	19.1	14.3	23.2	15.4	24.8	18.5	28.3	21.7	31.4	26.4	16.6	12.8	
Slovak Republic	10.9	11.9	13.7	16.3	14.8	18.4	17.3	24.0	19.0	27.0	20.4	29.8	20.7	15.3	13.9	
Slovenia	—	—	20.2	24.7	22.6	30.0	23.7	31.3	28.4	35.4	28.6	38.1	34.7	24.3	17.9	
Spain	23.6	35.5	28.2	39.7	29.2	38.8	30.7	39.2	32.3	39.3	34.7	41.5	42.8	30.2	21.2	
Sweden	25.6	36.9	29.6	37.3	32.0	40.8	34.2	42.2	35.7	43.5	38.7	46.0	46.1	32.3	29.9	
Switzerland	25.4	25.6	28.8	31.0	33.7	38.5	35.2	40.5	36.6	40.6	40.2	46.0	44.8	38.1	31.1	
Turkey	8.4	10.2	9.7	11.8	12.0	15.5	13.1	17.4	15.3	21.0	16.7	24.8	15.9	9.9	10.0	
United Kingdom	26.1	29.5	29.6	35.0	32.5	38.4	38.2	46.0	41.0	47.9	42.2	49.2	45.8	38.3	34.8	
United States	37.3	39.1	39.0	39.2	41.1	41.6	41.7	42.3	43.1	44.0	44.2	45.7	47.2	43.0	41.0	
Other reporting countries																
Brazil ^{4,6}	—	—	7.8	7.9	10.8	11.0	10.9	11.6	13.0	14.5	13.7	15.3	14.1	13.6	10.7	
China ⁷	4.6	6.1	—	—	—	—	9.7	17.9	—	—	—	—	—	—	—	
Colombia ³	—	—	—	—	—	—	—	—	19.7	—	22.4	27.7	23.0	18.3	16.1	
Costa Rica	—	—	—	—	—	—	—	—	—	—	18.0	20.0	18.3	16.4	16.2	
Indonesia ^{3,6,8}	—	—	—	—	4.5	—	7.5	—	8.5	10.3	—	—	—	—	—	
Latvia	—	—	—	—	—	—	—	—	29.2	38.7	30.2	39.4	31.4	26.7	23.0	
Lithuania	—	—	—	—	—	—	—	—	—	—	36.7	52.6	37.6	30.2	27.6	
Russian Federation ²	—	—	—	—	—	—	—	—	53.5	57.0	54.3	58.2	55.3	53.3	49.6	
Saudi Arabia ⁴	—	—	—	—	—	—	—	—	—	—	21.9	23.7	22.0	18.3	14.2	
South Africa ³	—	—	—	—	4.3	—	—	—	6.6	5.2	—	—	—	—	—	

—Not available.

*Data from 2007 reported for 2008.

NOTE: Data in this table include all tertiary degrees, which correspond to all degrees at the associate's level and above in the United States. The International Standard Classification of Education (ISCED) was revised in 2011. The previous version, ISCED 1997, was used to calculate all data for 2012 and earlier years. For most countries, data for 2014 were calculated using ISCED 2011 and may not be comparable to data for earlier years. (The countries for which 2014 data were calculated using ISCED 1997 are Brazil, the Russian Federation, and Saudi Arabia.) Under ISCED 2011, tertiary degrees are classified at the following levels: level 5 (corresponding to an associate's degree in the United States), level 6 (a bachelor's or equivalent degree), level 7 (a master's or equivalent degree), and level 8 (a doctoral or equivalent degree). Standard errors are not available for years prior to 2010.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, selected years, 2003 through 2015. (This table was prepared January 2016.)*Not applicable.
*Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year.

*Data from 2013 reported for 2012.

*Data from 2011 reported for 2012.

*Data from 2004 reported for 2005.

*Data for 2014 exclude short-cycle tertiary education, which corresponds to the associate's degree in the United States.

*Data from 2009 reported for 2010.

*Data from 2000 reported for 2001.

Table 603.30. Percentage of the population 25 to 64 years old who attained a postsecondary degree, by highest degree attained, age group, and country: 2014
[Standard errors appear in parentheses]

Country	Associate's degree (short-cycle tertiary)						Bachelor's or equivalent degree				
	Total, 25 to 64 years old	25 to 34 years old	35 to 44 years old	45 to 54 years old	55 to 64 years old	Total, 25 to 64 years old	25 to 34 years old	35 to 44 years old	45 to 54 years old	55 to 64 years old	
	2	3	4	5	6	7	8	9	10	11	
1											
OECD average¹	7.6 (0.02)	7.4 (0.05)	9.0 (0.05)	7.9 (0.05)	7.8 (0.05)	15.1 (0.03)	20.7 (0.07)	16.6 (0.06)	12.3 (0.05)	10.4 (0.05)	
Australia	11.4 (0.19)	9.9 (0.35)	12.9 (0.39)	12.2 (0.39)	10.5 (0.39)	23.8 (0.25)	30.2 (0.54)	25.3 (0.51)	19.9 (0.47)	18.0 (0.48)	
Austria	15.5 (0.19)	17.4 (0.44)	16.8 (0.39)	15.1 (0.32)	12.5 (0.32)	21 (0.08)	5.3 (0.25)	1.7 (0.16)	0.9 (0.09)	0.5 (0.07)	
Belgium	0.4 (0.03)	0.4 (0.06)	0.5 (0.06)	0.3 (0.05)	† (†)	20.2 (0.19)	23.1 (0.41)	22.5 (0.39)	19.7 (0.35)	15.4 (0.33)	
Canada ²	25.1 (0.17)	24.5 (0.32)	27.0 (0.32)	26.0 (0.28)	22.9 (0.29)	19.4 (0.19)	24.1 (0.35)	22.6 (0.36)	17.0 (0.27)	14.0 (0.28)	
Chile ^{2,3}	7.2 (0.08)	8.6 (0.17)	8.7 (0.17)	6.8 (0.14)	4.1 (0.13)	12.6 (0.10)	17.6 (0.23)	13.9 (0.21)	9.0 (0.16)	9.2 (0.19)	
Czech Republic	0.1 (0.01)	0.2 (0.03)	† (†)	† (†)	† (†)	5.1 (0.06)	10.6 (0.20)	5.1 (0.12)	2.8 (0.10)	1.5 (0.07)	
Denmark	4.5 (0.08)	4.1 (0.18)	5.2 (0.18)	4.7 (0.15)	3.9 (0.15)	19.5 (0.16)	22.4 (0.39)	20.2 (0.33)	17.9 (0.27)	18.0 (0.29)	
Estonia	7.0 (0.22)	1.0 (0.18)	7.0 (0.43)	9.0 (0.48)	12.0 (0.56)	10.0 (0.26)	23.0 (0.76)	11.0 (0.52)	3.0 (0.29)	1.0 (0.17)	
Finland	12.5 (0.11)	0.5 (0.05)	11.5 (0.23)	19.8 (0.26)	17.1 (0.24)	14.7 (0.12)	25.8 (0.33)	18.3 (0.28)	8.6 (0.18)	7.2 (0.17)	
France ³	14.0 (0.07)	17.5 (0.17)	17.4 (0.15)	12.4 (0.12)	8.9 (0.11)	8.9 (0.06)	12.1 (0.14)	11.9 (0.13)	6.2 (0.09)	5.8 (0.09)	
Germany	0.7 (0.01)	0.4 (0.02)	0.6 (0.03)	0.8 (0.03)	0.7 (0.03)	14.3 (0.06)	14.3 (0.14)	14.4 (0.14)	14.7 (0.12)	13.8 (0.13)	
Greece	1.7 (0.04)	1.2 (0.07)	0.9 (0.05)	2.6 (0.09)	2.2 (0.08)	23.4 (0.12)	33.7 (0.30)	22.0 (0.23)	20.4 (0.22)	17.5 (0.21)	
Hungary	1.3 (0.03)	3.0 (0.10)	1.3 (0.06)	0.6 (0.04)	† (†)	12.8 (0.09)	15.7 (0.22)	13.4 (0.18)	12.0 (0.18)	10.3 (0.15)	
Iceland	3.5 (0.20)	2.6 (0.34)	4.1 (0.44)	3.6 (0.40)	3.9 (0.42)	20.1 (0.43)	25.7 (0.94)	21.5 (0.91)	17.9 (0.82)	14.5 (0.77)	
Ireland	11.8 (0.12)	11.8 (0.22)	14.9 (0.24)	11.1 (0.21)	8.4 (0.19)	20.8 (0.19)	28.7 (0.39)	23.7 (0.31)	16.4 (0.27)	11.4 (0.26)	
Israel	14.0 (0.14)	11.4 (0.24)	14.1 (0.27)	15.3 (0.29)	16.5 (0.32)	22.0 (0.17)	26.9 (0.34)	24.6 (0.34)	17.6 (0.31)	16.2 (0.32)	
Italy	† (†)	† (†)	† (†)	† (†)	† (†)	3.3 (0.04)	8.8 (0.14)	2.7 (0.07)	1.7 (0.06)	1.0 (0.05)	
Japan	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	
Korea, Republic of	13.3 (0.17)	23.2 (0.41)	17.8 (0.36)	7.8 (0.26)	3.3 (0.23)	31.3 (0.23)	44.5 (0.48)	38.6 (0.45)	25.5 (0.42)	14.0 (0.44)	
Luxembourg	9.3 (0.33)	9.9 (0.81)	10.5 (0.69)	8.3 (0.58)	8.3 (0.60)	15.0 (0.41)	16.6 (1.01)	17.7 (0.86)	13.5 (0.72)	11.3 (0.69)	
Mexico ⁴	0.6 (0.01)	0.7 (0.02)	0.7 (0.02)	0.5 (0.02)	0.3 (0.02)	17.9 (0.05)	23.8 (0.10)	16.8 (0.09)	15.2 (0.10)	12.9 (0.10)	
Netherlands	2.5 (0.03)	1.8 (0.10)	2.6 (0.07)	2.9 (0.06)	2.4 (0.06)	19.7 (0.08)	26.4 (0.21)	21.1 (0.17)	16.5 (0.13)	15.8 (0.14)	
New Zealand	5.3 (0.19)	3.7 (0.33)	4.7 (0.35)	5.6 (0.36)	7.4 (0.45)	25.6 (0.36)	32.0 (0.82)	30.2 (0.76)	22.1 (0.66)	17.5 (0.65)	
Norway	11.9 (0.14)	14.0 (0.32)	13.5 (0.29)	10.9 (0.25)	8.9 (0.25)	19.1 (0.17)	22.3 (0.38)	21.6 (0.35)	16.2 (0.30)	15.8 (0.32)	
Poland	0.1 (0.01)	0.1 (0.01)	0.1 (0.01)	0.1 (0.02)	0.2 (0.02)	5.6 (0.05)	11.3 (0.15)	5.7 (0.11)	2.5 (0.07)	2.4 (0.06)	
Portugal	† (†)	† (†)	† (†)	† (†)	† (†)	4.6 (0.07)	10.1 (0.24)	3.6 (0.12)	2.5 (0.10)	3.0 (0.11)	
Slovak Republic	0.3 (0.02)	0.3 (0.05)	† (†)	0.4 (0.05)	† (†)	3.2 (0.08)	6.0 (0.22)	3.3 (0.15)	1.8 (0.11)	1.3 (0.09)	
Slovenia	6.8 (0.13)	6.0 (0.26)	6.5 (0.28)	7.4 (0.26)	7.2 (0.26)	6.4 (0.13)	12.5 (0.37)	7.3 (0.29)	4.0 (0.19)	2.0 (0.14)	
Spain	10.7 (0.05)	13.0 (0.13)	13.8 (0.11)	9.5 (0.09)	5.3 (0.08)	9.4 (0.05)	11.2 (0.12)	11.2 (0.10)	7.8 (0.08)	6.9 (0.09)	
Sweden	9.8 (0.07)	10.3 (0.15)	8.9 (0.14)	9.4 (0.14)	10.6 (0.14)	15.5 (0.09)	22.2 (0.21)	18.9 (0.19)	11.1 (0.15)	9.4 (0.14)	
Switzerland ⁵	† (†)	† (†)	† (†)	† (†)	† (†)	19.8 (0.14)	24.4 (0.35)	20.9 (0.27)	18.3 (0.24)	15.2 (0.24)	
Turkey	4.9 (0.04)	7.1 (0.10)	4.2 (0.07)	3.3 (0.07)	3.9 (0.09)	10.1 (0.06)	15.5 (0.13)	9.9 (0.11)	5.6 (0.09)	5.3 (0.10)	
United Kingdom	11.2 (0.07)	7.8 (0.12)	14.7 (0.15)	11.7 (0.13)	10.9 (0.14)	21.8 (0.09)	30.5 (0.21)	22.2 (0.18)	17.9 (0.16)	15.9 (0.16)	
United States	10.8 (0.16)	10.3 (0.29)	11.3 (0.27)	10.9 (0.27)	10.5 (0.32)	21.6 (0.23)	24.9 (0.46)	22.5 (0.36)	20.8 (0.42)	18.1 (0.39)	

See notes at end of table.

Table 603.30. Percentage of the population 25 to 64 years old who attained a postsecondary degree, by highest degree attained, age group, and country: 2014—Continued
[Standard errors appear in parentheses]

Country	Master's or equivalent degree					Doctoral or equivalent degree				
	Total, 25 to 64 years old	25 to 34 years old	35 to 44 years old	45 to 54 years old	55 to 64 years old	Total, 25 to 64 years old	25 to 34 years old	35 to 44 years old	45 to 54 years old	55 to 64 years old
	12	13	14	15	16	17	18	19	20	21
1										
OECD average¹	11.4	13.6	13.4	10.1	8.2	1.0	0.7	1.3	1.1	1.0
Australia	5.6	7.2	6.4	4.8	3.6	1.2	0.8	1.4	1.2	1.4
Austria	11.1	14.8	13.2	9.2	7.2	1.3	0.9	1.6	1.3	1.2
Belgium	15.6	20.1	18.5	13.8	10.1	0.6	0.7	0.8	0.6	0.5
Canada ²	9.1	9.1	11.0	8.2	8.1	2.1	2.1	2.1	2.1	2.1
Chile ^{2,3}	1.3	1.1	1.6	1.2	1.2	2.1	2.1	2.1	2.1	2.1
Czech Republic	15.8	18.6	15.4	16.3	12.9	0.5	0.4	0.5	0.4	0.6
Denmark	10.9	14.8	13.6	9.0	6.9	0.9	0.8	1.6	0.9	0.6
Estonia	20.0	16.0	20.0	22.0	22.0	1.0	1.0	1.0	1.0	1.0
Finland	13.4	13.6	18.4	13.7	8.5	1.2	0.4	1.6	1.6	1.3
France ³	8.4	13.8	8.9	6.2	4.9	0.8	0.6	0.9	0.8	0.8
Germany	10.8	12.7	11.8	9.3	9.7	1.3	1.0	1.7	1.4	1.3
Greece	2.4	3.4	3.3	1.9	0.9	0.6	0.4	0.4	0.6	0.5
Hungary	8.6	12.7	9.3	7.0	5.7	0.7	0.7	0.6	0.6	0.7
Iceland	12.3	12.2	14.9	13.0	8.7	1.2	1.2	1.5	1.6	1.7
Ireland	7.5	9.5	9.5	5.9	4.1	0.8	0.8	0.9	0.7	0.5
Israel	11.3	7.4	12.9	13.2	13.0	1.2	0.4	1.3	1.5	1.7
Italy	13.2	14.9	16.1	10.7	11.2	0.4	0.4	0.6	0.4	0.1
Japan	—	—	—	—	—	—	—	—	—	—
Korea, Republic of	—	—	—	—	—	—	—	—	—	—
Luxembourg	20.1	25.5	25.8	16.7	9.8	1.4	0.9	1.8	1.1	2.3
Mexico ⁴	—	—	—	—	—	—	—	—	—	—
Netherlands	11.6	15.6	13.1	10.0	8.2	0.6	0.5	0.8	0.6	0.5
New Zealand	3.9	4.4	4.7	3.3	3.2	0.9	0.3	1.2	1.1	0.8
Norway	9.9	12.3	12.6	7.9	6.1	0.9	0.4	1.0	1.2	0.9
Poland	20.7	30.8	25.3	15.1	10.6	0.5	0.4	0.8	0.5	0.5
Portugal	16.6	21.0	22.2	13.3	9.4	0.6	0.3	0.6	0.9	0.4
Slovak Republic	16.4	22.9	16.5	12.8	11.9	0.6	0.6	0.7	0.4	0.5
Slovenia	13.3	17.8	17.7	10.6	7.6	2.1	1.9	3.2	2.2	1.1
Spain	13.9	17.0	16.9	12.1	8.3	0.7	0.3	0.8	0.8	0.7
Sweden	12.0	12.9	16.3	10.0	8.5	1.5	0.7	2.0	1.8	1.4
Switzerland ⁵	17.3	19.3	19.8	16.7	12.8	3.2	2.4	4.0	3.1	3.1
Turkey	1.3	2.0	1.4	0.7	0.5	0.3	0.1	0.4	0.3	0.2
United Kingdom	8.0	9.9	7.6	7.5	6.8	1.2	1.0	1.2	1.2	1.2
United States	10.2	9.3	11.5	9.7	10.5	1.6	1.2	1.9	1.6	1.9

—Not available.

¹Not applicable.²Interpret data with caution. Country indicated that this value fell below a specified reliability threshold, which varies from country to country. (For more information, see <http://www.oecd.org/edu/EAG2015-Annex3-ChapterA.pdf>.)³Reporting standards not met (too few cases for a reliable estimate).⁴Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally.⁵Doctoral or equivalent degree data are included in columns for master's or equivalent degree.⁶Data from 2013 reported for 2014.⁴Master's or equivalent degree data and doctoral or equivalent degree data are included in columns for bachelor's or equivalent degree.⁵Associate's degree data are included in columns for bachelor's or equivalent, master's or equivalent, and doctoral or equivalent degrees.

NOTE: All data in this table were calculated using the International Standard Classification of Education (ISCED) 2011 classification of tertiary degrees. Includes degrees at ISCED 2011 level 5 (short-cycle tertiary, which corresponds to the associate's degree in the United States), level 6 (bachelor's or equivalent degree), level 7 (master's or equivalent degree), and level 8 (doctoral or equivalent degree).

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2015. (This table was prepared January 2016.)

Table 603.40. Percentage of the population 25 to 64 years old who attained a postsecondary vocational degree, by age group and country: Selected years, 1999 through 2012
[Standard errors appear in parentheses]

Country	1999		2001		2005		2008		2009		2010		2012	
	Total, 25 years old	25 to 34 years old	Total, 25 years old	25 to 34 years old	Total, 25 years old	25 to 34 years old	Total, 25 years old	25 to 34 years old	Total, 25 years old	25 to 34 years old	Total, 25 years old	25 to 34 years old	Total, 25 years old	25 to 34 years old
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
OECD average¹	8.4	10.5	8.9	10.8	8.6	9.6	9.7	10.4	10.4	11.0	10.2	10.9	9.8	10.0
Australia.....	9.0	8.8	9.7	9.7	9.0	8.9	10.1	9.8	10.1	10.2	10.7	10.2	11.5	10.5
Austria ²	4.7	5.8	7.3	7.4	8.7	8.1	7.4	5.9	7.6	5.8	7.3	5.4	7.3	5.2
Belgium.....	13.9	17.9	14.9	19.7	17.3	21.5	15.9	19.5	15.9	18.3	17.8	20.5	16.9	18.2
Canada.....	20.2	23.7	21.2	25.4	22.8	25.6	23.6	26.1	24.1	26.0	24.2	25.8	24.9	25.5
Chile ^{3,4,5}	0.9	1.4	1.0	1.6	2.8	4.1	8.5	11.5	8.0	11.0	10.3	13.1	5.8	6.1
Denmark.....	—	—	5.3	5.8	7.6	9.1	7.0	8.2	7.2	8.5	6.3	6.2	5.6	5.3
Estonia.....	—	—	—	—	11.1	8.7	12.0	12.3	13.2	14.8	13.3	14.0	12.6	13.1
Finland.....	17.4	21.8	17.5	20.2	16.6	11.0	15.0	5.4	14.7	3.4	14.7	2.5	13.5	0.9
France.....	10.5	15.6	11.2	16.7	10.0	17.0	11.1	16.9	11.6	17.5	11.5	16.9	11.9	16.1
Germany.....	9.9	8.6	9.7	8.2	9.7	7.4	9.0	6.5	9.3	6.8	9.6	7.2	11.1	9.5
Greece.....	5.5	8.6	5.4	7.4	6.7	8.4	6.6	9.6	6.7	10.1	7.2	10.9	8.8	13.5
Hungary.....	—	—	—	—	0.2	0.5	#	1.0	#	1.0	0.6	1.4	0.7	1.5
Iceland.....	4.6	5.3	6.0	5.5	4.7	3.3	3.4	2.2	3.9	2.5	3.8	2.2	4.1	2.6
Ireland ²	10.5	13.4	21.6	28.1	10.6	14.4	11.7	14.5	14.9	18.7	15.6	18.4	14.8	16.0
Israel.....	—	—	—	—	16.0	15.1	15.1	13.4	15.5	13.4	15.0	12.4	13.9	11.7
Italy.....	—	—	—	—	0.5	0.6	#	#	#	#	#	#	0.3	0.2
Japan.....	13.4	22.1	14.6	23.4	17.7	25.3	18.5	24.1	19.1	23.9	19.5	23.7	20.2	23.4
Korea, Republic of.....	5.8	11.9	6.7	14.5	8.9	19.3	10.9	23.3	11.6	25.5	12.2	26.0	13.3	25.8
Luxembourg.....	6.6	8.1	6.7	8.3	9.6	13.2	7.7	10.8	14.6	20.4	14.7	18.1	13.1	14.1
Mexico.....	1.3	2.2	1.7	2.7	1.1	1.2	1.1	1.2	1.1	1.2	1.1	1.3	1.2	1.4
Netherlands.....	2.5	2.4	2.3	2.4	1.8	1.6	2.4	2.2	2.8	2.5	2.5	2.4	2.8	2.6
New Zealand.....	13.9	10.4	15.3	11.6	7.4	4.6	14.9	13.9	16.9	15.9	16.4	14.9	15.3	14.1
Norway ²	2.0	2.2	2.6	2.6	2.4	1.9	2.4	1.8	2.2	1.4	2.1	1.0	2.4	0.8
Portugal.....	2.7	3.0	2.4	3.1	—	—	—	—	—	—	—	—	—	—
Slovak Republic.....	—	—	0.6	0.6	0.8	0.9	0.8	0.6	0.8	0.9	0.7	0.6	1.3	1.2
Slovenia.....	—	—	—	—	9.6	9.5	10.8	11.7	10.8	11.7	10.6	12.2	11.7	13.8
Spain.....	6.2	11.4	6.7	11.6	8.3	12.8	9.2	13.0	9.5	13.2	9.2	12.2	9.7	12.5
Sweden.....	15.6	20.7	14.7	17.1	9.1	8.9	8.6	8.4	8.7	8.5	8.8	8.2	9.1	9.4
Switzerland.....	9.1	9.3	9.6	9.7	9.7	9.1	10.4	9.7	10.3	9.4	10.8	9.9	10.8	9.0
United Kingdom.....	8.2	8.4	8.0	9.0	8.8	8.1	9.0	7.7	10.0	8.5	10.2	8.1	10.0	7.7
United States.....	8.3	8.7	9.0	9.2	9.4	9.0	9.6	9.3	9.8	8.9	10.0	9.5	10.4	9.9
Other reporting countries	—	—	33.5	34.2	—	—	—	—	—	—	—	—	25.7	21.5
Russian Federation ⁶	—	—	—	—	—	—	—	—	—	—	—	—	—	—

—Not available.

#Not applicable.

#Rounds to zero.

¹Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year.

²Data from 1998 reported for 1999.³Data from 2000 reported for 2001.⁴Data from 2004 reported for 2005.⁵Data from 2011 reported for 2012.⁶Data from 2002 reported for 2001.

NOTE: Data in this table refer to degrees classified as International Standard Classification of Education (ISCED) 1997 level 5B, ISCED level 5B corresponds to the associate's degree in the United States. Data for the Czech Republic, Poland, and Turkey are not shown because these countries do not separate tertiary degrees at this level. Standard errors are not available for years prior to 2009.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2001 through 2014. (This table was prepared December 2014.)

Table 603.50. Number of bachelor's degree recipients per 100 persons at the typical minimum age of graduation, by sex and country: Selected years, 2005 through 2012

Country	Typical age of graduation, ¹ 2012	Total						Male						Female								
		2005	2007	2008	2009	2010	2011	2012	2005	2007	2008	2009	2010	2011	2012	2005	2007	2008	2009	2010	2011	2012
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	—	34.7	37.5	39.1	38.9	39.8	39.7	40.8	27.5	30.0	31.0	31.0	31.5	31.8	32.7	42.3	45.3	47.5	47.1	48.5	48.0	49.3
Australia	23	59.9	60.7	58.9	58.5	58.6	59.0	63.4	47.9	48.6	47.0	46.9	46.5	47.0	50.6	72.5	73.4	71.4	70.8	71.4	71.8	76.7
Austria	22–25	20.4	22.4	25.8	30.3	30.7	33.7	36.4	19.0	20.8	22.7	25.9	26.3	28.5	29.7	21.8	24.0	29.1	34.7	35.2	39.0	43.3
Belgium (Flemish) ³	21	18.4	35.4	27.0	—	—	—	—	17.0	32.6	24.4	—	—	—	—	19.8	38.2	29.6	—	—	—	—
Canada	22	33.6	35.2	39.5	38.9	38.6	37.6	35.1	25.2	26.5	29.1	29.3	29.1	28.5	26.8	42.2	44.3	50.6	49.0	48.6	47.2	43.9
Chile	23–26	11.5	14.5	14.7	17.6	18.1	18.5	19.0	9.7	11.9	11.7	13.2	14.9	15.5	16.1	13.4	17.3	17.8	22.1	21.5	21.6	21.9
Czech Republic	22–26	26.0	36.4	39.2	39.7	42.3	42.8	45.2	22.6	31.0	32.2	30.4	31.1	30.8	32.9	29.5	42.1	46.6	49.7	54.4	55.5	57.9
Denmark	24–26	52.9	50.9	50.3	48.3	50.7	50.6	49.3	37.2	38.3	38.3	35.3	37.5	38.3	37.1	69.2	63.9	62.6	61.7	64.3	63.3	62.0
Estonia	22–24	28.5	27.3	23.8	22.9	22.3	23.8	22.1	17.6	17.6	14.9	13.7	14.0	15.4	15.1	39.5	37.3	32.8	32.7	31.6	32.6	29.4
Finland ⁴	24	53.8	58.8	79.8	42.3	46.4	50.3	52.0	38.8	41.3	55.3	28.7	33.1	36.4	38.4	69.7	77.4	105.6	56.6	60.3	65.0	66.3
France	19–24	—	33.8	33.9	33.0	—	—	—	—	30.2	30.3	29.8	—	—	—	—	37.5	37.6	36.3	—	—	—
Germany	24–27	20.5	23.2	25.5	28.9	30.4	31.0	30.5	20.0	22.0	24.0	27.4	28.7	29.6	29.0	21.1	24.4	27.0	30.5	32.2	32.5	32.0
Greece ⁵	23–24	23.9	21.7	26.6	—	25.4	27.3	26.7	16.3	14.7	18.3	—	17.5	18.6	18.7	32.2	29.4	35.5	—	34.0	36.7	35.5
Hungary	21–24	41.5	38.8	37.6	39.0	38.4	32.8	29.9	29.0	26.2	25.2	27.1	28.0	25.0	23.0	54.5	51.8	50.4	51.2	49.1	41.0	37.2
Iceland	23–25	56.3	62.8	55.9	50.7	65.4	65.4	57.7	33.6	38.0	34.1	30.7	40.1	—	38.8	80.5	88.0	78.9	72.2	91.3	—	77.9
Ireland	21	40.7	44.8	46.0	47.1	52.2	46.8	48.3	33.3	36.4	36.9	38.5	45.3	40.0	40.7	48.0	53.4	55.2	55.4	58.9	53.5	56.1
Israel	26–29	32.9	36.1	36.3	36.4	36.8	38.5	41.1	25.7	29.1	29.6	30.8	30.6	31.8	33.6	40.2	43.1	43.1	42.0	43.1	45.3	48.7
Italy	23–25	44.8	38.7	35.8	34.6	33.6	34.3	33.1	37.3	31.6	29.5	28.5	26.9	27.3	25.9	52.7	46.1	42.3	40.9	40.6	41.6	40.6
Japan	21–23	36.9	38.8	40.6	41.5	41.3	44.8	46.3	41.3	42.9	44.9	46.1	45.4	49.1	50.1	32.2	34.4	36.0	36.7	37.1	40.2	42.3
Korea, Republic of	22–26	35.5	42.9	48.7	50.0	50.7	49.9	49.0	34.8	42.7	49.0	51.0	50.9	49.2	47.3	36.2	43.2	48.5	48.8	50.4	50.7	51.1
Mexico	23	15.2	18.2	17.8	19.0	19.5	20.9	21.3	14.5	16.8	16.2	17.4	17.7	19.3	20.0	15.9	19.7	19.3	20.7	21.2	22.4	22.6
Netherlands	23	47.2	47.8	46.0	45.6	44.7	45.3	49.2	40.2	41.7	39.8	39.4	38.6	38.5	42.2	54.3	54.1	52.3	51.9	51.0	52.2	56.2
New Zealand	21–23	49.0	53.8	50.0	50.7	47.3	51.0	54.8	36.6	41.6	37.6	38.9	36.7	37.6	40.2	62.0	66.0	63.0	63.1	58.6	65.1	70.6
Norway	22–25	42.1	45.0	46.1	44.3	46.1	46.1	44.3	28.8	31.8	33.9	32.0	33.7	32.0	32.5	55.8	58.7	58.8	57.3	58.8	59.3	56.5
Poland	23–25	45.0	46.6	48.2	49.4	56.9	60.6	55.7	32.8	34.4	35.0	35.9	40.5	42.9	40.3	57.6	59.2	61.9	63.3	73.8	79.1	71.6
Portugal	22	33.7	46.0	50.4	44.3	44.6	42.9	44.4	21.7	35.0	40.3	35.9	34.5	34.2	36.0	46.0	57.4	60.9	53.1	55.2	52.1	53.0
Slovak Republic	21–23	30.1	37.9	57.6	61.7	50.9	48.6	46.3	25.6	26.8	38.7	42.8	35.2	33.9	32.7	34.8	49.6	77.3	81.5	67.3	63.6	60.5
Slovenia	23–26	21.6	21.1	22.6	27.9	34.7	38.1	45.6	14.3	13.9	14.4	17.2	21.7	25.2	31.1	29.4	29.0	31.7	39.6	49.2	52.1	61.4
Spain	20–22	35.0	34.7	35.5	37.4	39.5	45.1	43.1	27.1	26.6	27.3	28.8	30.7	35.7	35.7	43.3	43.3	44.2	46.4	48.5	54.9	51.0
Sweden	25	44.0	42.2	40.9	38.1	35.7	38.5	35.1	30.8	29.1	27.9	25.8	23.6	25.0	23.8	57.6	55.8	54.7	51.0	48.6	52.7	47.0
Switzerland	24–26	25.0	28.9	30.6	29.2	28.8	28.0	28.7	26.1	28.7	29.2	27.0	26.7	25.4	26.4	23.9	29.2	32.0	31.5	31.0	30.7	31.2
Turkey	23–24	11.3	17.0	19.5	20.8	23.1	22.7	27.1	11.8	17.9	20.6	22.4	24.9	23.9	27.4	10.7	15.9	18.4	19.2	21.2	21.4	26.8
United Kingdom	20–24	39.8	39.0	40.2	39.9	41.9	43.4	45.5	34.1	32.9	33.5	33.8	35.6	36.6	38.5	45.7	45.4	47.2	46.3	48.6	50.6	52.8
United States	21	34.2	36.5	37.3	37.8	38.2	38.8	38.8	28.1	30.1	31.0	31.4	31.8	32.4	32.4	40.7	43.4	43.9	44.5	45.0	45.4	45.3
Other reporting countries																						
Brazil	22	17.5	22.7	25.6	24.9	23.1	25.9	26.9	13.3	18.4	19.9	17.9	16.9	19.0	19.2	21.6	27.0	31.3	32.0	29.4	32.8	35.1
Russian Federation	22–24	45.9	48.6	52.7	51.8	55.1	58.6	60.3	—	—	—	—	—	—	46.4	—	—	—	—	—	—	74.6

—Not available.

¹The typical age of graduation is based on full-time attendance and normal progression through the education system (without repeating coursework, taking time off, etc.); this age varies across countries because of differences in their education systems and differences in program duration. In countries where the typical duration of bachelor's degree programs varies, an age span is shown. For example, if a typical program duration can be as little as 3 years or as much as 6 years, then the first age in the span represents those who graduate after 3 years, while the final age represents those who graduate after 6 years. The typical age of graduation is presented for the most recent year of data and may differ from previous years; please see previously published volumes of the Digest of Education Statistics for the typical age in previous years.

²Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year.

³Reference year for typical age of graduation is 2008.

⁴Structural changes in the Finnish higher education system accounted for much of the increase in Finnish degree recipients in 2008, as well as the decrease in 2009. Students had a strong incentive to complete their degrees in 2008. Students who did

not complete their degrees in 2008 may have had to spend extra time or take additional courses in order to meet new requirements that went into effect in 2009.

NOTE: Data in this table refer to degrees classified by OECD as International Standard Classification of Education (ISCED) 1997 level 5A, first award. This level corresponds to the bachelor's degree in the United States. The recipients-per-100-persons ratio relates the number of people of all ages earning bachelor's degrees in a particular year to the number of people in the population at the typical minimum age of graduation. Some countries have two types of awards that correspond to the bachelor's degree (with different typical minimum ages of graduation). The typical minimum age for an award that requires 3 to 5 years for completion would be based on graduation after 3 years, and the typical minimum age for an award that requires 5 to 6 years would be based on graduation after 5 years. The recipients-per-100-persons ratio is the sum of all persons earning the two different award types, divided by the sum of all persons at the minimum graduation age for each of the award types. Data for Luxembourg are not shown because students generally attend no more than 1 year of higher education in Luxembourg and must complete their degrees in other countries.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2006 through 2014; and Online Education Database, retrieved November 26, 2014, from <http://stats.oecd.org/Index.aspx>. (This table was prepared December 2014.)

Table 603.60. Percentage of postsecondary degrees awarded to women, by field of study and country: 2013

Country	All fields ¹	Education	Humanities and arts	Health and welfare	Social sciences, business, and law	Personal, transport, environmental protection, and security services	Engineering, manufacturing, and construction	Sciences, mathematics, and computer science	Agriculture
1	2	3	4	5	6	7	8	9	10
OECD average²	57.2	78.4	65.3	76.9	58.5	50.9	24.1	39.1	50.9
Australia.....	57.6	75.0	62.7	77.3	56.1	56.1	21.8	37.0	51.4
Austria.....	56.0	83.7	70.5	70.8	58.6	79.3	21.2	33.3	55.9
Belgium.....	59.1	78.9	61.6	76.7	58.6	51.7	22.4	29.4	54.1
Canada ³	58.7	75.3	63.2	84.4	58.8	50.6	18.9	45.4	57.8
Chile.....	56.6	76.1	58.4	77.8	58.0	47.0	17.6	22.9	46.5
Czech Republic.....	61.8	83.1	71.1	83.3	68.3	48.5	28.2	38.3	59.7
Denmark.....	57.5	72.5	66.8	80.0	53.5	21.1	35.3	35.4	67.4
Estonia.....	65.4	95.0	76.2	90.1	71.0	49.9	30.3	45.2	51.7
Finland.....	60.1	82.3	72.9	85.1	63.5	65.1	21.7	42.5	57.6
France.....	56.1	76.5	69.3	74.4	60.6	51.1	25.6	37.8	50.1
Germany.....	50.7	77.7	70.2	69.7	55.6	49.9	19.4	38.6	41.4
Greece.....	58.8	78.5	76.5	80.9	63.3	54.9	32.8	46.0	41.7
Hungary.....	63.9	81.9	66.9	78.0	70.8	61.9	23.7	35.4	48.4
Iceland.....	—	—	—	—	—	—	—	—	—
Ireland.....	53.6	75.0	60.4	76.5	53.7	54.1	14.1	34.0	24.9
Israel.....	—	—	—	—	—	—	—	—	—
Italy.....	59.5	89.4	72.5	67.9	59.0	50.0	34.3	52.7	48.2
Japan.....	48.8	71.7	69.0	63.5	39.1	77.3	12.5	26.0	39.4
Korea, Republic of.....	51.0	76.2	68.6	71.9	49.3	48.3	24.3	38.4	43.2
Mexico.....	53.1	72.3	58.3	66.6	58.8	28.0	28.5	46.1	36.1
Netherlands.....	56.9	79.6	58.1	74.5	53.8	53.9	21.5	28.4	54.4
New Zealand.....	59.5	84.2	62.9	79.4	56.7	51.8	26.2	38.3	69.9
Norway.....	58.7	73.9	62.3	83.6	57.6	36.7	19.6	35.9	58.9
Poland.....	—	—	—	—	—	—	—	—	—
Portugal.....	59.8	81.5	60.0	78.9	62.1	48.7	32.5	55.7	59.9
Slovak Republic.....	63.6	76.9	69.6	81.9	68.5	42.9	30.9	45.6	50.9
Slovenia.....	61.1	89.2	71.5	80.2	70.1	53.6	24.1	42.2	60.8
Spain.....	55.8	78.6	59.5	74.5	60.5	46.3	25.2	36.6	43.0
Sweden.....	61.7	82.0	59.8	81.4	63.4	63.4	29.2	39.0	63.5
Switzerland.....	48.3	70.2	61.4	74.4	48.4	43.1	14.0	31.8	30.1
Turkey ³	47.1	60.5	56.4	63.4	48.5	27.4	24.8	48.2	45.0
United Kingdom.....	57.1	76.4	62.3	77.3	53.2	62.8	22.2	45.7	64.1
United States.....	58.6	78.1	59.9	81.3	55.9	53.4	18.9	40.3	49.8
Other reporting countries									
Colombia.....	55.3	67.3	50.4	72.0	62.5	30.6	32.1	41.8	40.9
Latvia.....	69.0	91.3	80.0	92.3	71.5	58.4	26.8	38.7	48.7
Russian Federation ..	44.0	56.8	56.0	36.3	56.1	32.6	17.3	25.9	40.4
Saudi Arabia.....	51.1	53.9	68.7	52.0	42.7	63.7	3.4	57.2	29.6
South Africa ³	59.8	73.8	60.2	73.7	60.3	79.3	28.5	49.1	48.6

—Not available.

¹Includes degrees in unknown or unspecified fields of study.

²Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally.

³Data are for 2012 instead of 2013.

NOTE: All data in this table were calculated using International Standard Classification of Education (ISCED) 2011. The data refer to total tertiary degrees, which correspond to degrees at

the associate's level and above in the United States. Includes degrees at ISCED 2011 level 5 (corresponding to the associate's degree in the United States), level 6 (bachelor's or equivalent degree), level 7 (master's or equivalent degree), and level 8 (doctoral or equivalent degree). Data for Luxembourg are not included because students generally attend no more than 1 year of higher education in Luxembourg and must complete their degrees in other countries.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance, 2015*. (This table was prepared April 2016.)

Table 603.70. Percentage of bachelor's or equivalent degrees awarded in mathematics, science, and engineering, by field of study and country: 2013

Country	All mathematics, science, and engineering fields ¹	Natural sciences			Mathematics and computer science			Engineering, manufacturing, and construction
		Total	Life science	Physical science	Total	Mathematics and statistics	Computer science	
1	2	3	4	5	6	7	8	9
OECD average²	21.9	4.5	2.7	1.8	4.2	1.0	3.2	13.3
Australia	16.4	5.9	3.9 ³	2.0 ³	3.5	0.4 ³	3.1 ³	7.0
Austria	25.5	6.1	3.5	2.6	5.6	0.7	4.9	13.8
Belgium	15.3	2.1	0.7	1.4	2.2	0.2	2.0	11.0
Canada	21.4	10.0	7.1	2.9	3.4	1.4	2.0	8.1
Chile	22.4	1.0	0.6	0.4	4.1	3.9	0.2	17.3
Czech Republic	22.0	4.3	2.1	2.2	5.8	0.9	4.9	11.9
Denmark	16.4	2.7	1.5	1.2	3.7	0.4	3.3	9.9
Estonia	21.7	4.1	2.1	2.0	6.1	0.9	5.2	11.5
Finland	27.4	1.8	0.8	1.0	3.4	0.4	3.0	22.0
France	19.8	6.3	3.8	2.5	4.9	1.5	3.4	7.5
Germany	35.8	5.4	2.2	3.2	6.0	1.2	4.8	24.4
Greece	30.1	3.8	1.1	2.7	7.2	2.6	4.6	19.2
Hungary	17.6	2.7	0.9	1.8	2.5	0.5	2.0	12.4
Iceland	—	—	—	—	—	—	—	—
Ireland	22.9	6.1	4.1	2.0	4.4	0.6	3.8	12.3
Israel	20.8	3.8	2.5	1.3	4.5	0.9	3.6	12.6
Italy	22.5	5.4	3.5	1.9	2.2	1.0	1.2	14.8
Japan	20.4	—	—	—	—	—	—	16.9
Korea, Republic of	33.4	4.8	3.0	1.8	5.1	1.3	3.8	23.5
Mexico	27.9	2.4	1.9	0.5	3.2	0.4	2.8	22.3
Netherlands	13.9	1.7	1.0	0.7	4.1	0.2	3.9	8.1
New Zealand	18.1	6.5	4.5	2.0	5.1	1.0	4.1	6.4
Norway	13.1	1.9	0.9	1.0	3.4	0.3	3.1	7.6
Poland	17.3	2.4	1.3	1.1	4.0	0.8	3.2	10.8
Portugal	24.6	4.6	3.2	1.4	1.9	0.4	1.5	18.2
Slovak Republic	20.7	3.7	2.2	1.5	4.0	0.9	3.1	13.0
Slovenia	25.2	4.8	3.1	1.7	5.4	1.4	4.0	15.1
Spain	27.3	2.5	1.8	0.7	4.5	0.3	4.2	20.2
Sweden	15.9	2.1	1.4	0.7	3.6	0.5	3.1	10.1
Switzerland	21.8	3.3	1.8	1.5	3.1	0.4	2.7	15.5
Turkey	17.6	6.0	1.7	4.3	3.2	2.2	1.0	8.4
United Kingdom	28.6	13.9	9.8	4.1	6.0	2.1	3.9	8.7
United States	17.0	6.9	5.4	1.5	3.9	1.1	2.8	6.1
Other reporting countries								
Brazil	13.8	1.8	1.1	0.7	3.7	0.1	3.6	8.2
Colombia	24.2	2.0	1.4	0.6	0.3	0.2	0.1	21.9
Latvia	17.4	1.8	0.6	1.2	3.5	0.5	3.0	12.2
Russian Federation	24.8	3.4	0.9	2.5	6.9	0.5	6.4	14.4
Saudi Arabia	23.0	—	—	—	—	—	—	5.0
South Africa	18.1	—	—	—	—	—	—	7.1

—Not available.

¹Includes life science; physical science; mathematics/statistics; computer science; and engineering, manufacturing, and construction.

²Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally.

³Includes data from another category.

NOTE: Data in this table refer to degrees classified as International Standard Classification of Education (ISCED) 2011 level 6 (bachelor's or equivalent degree). Data for Luxembourg are

not included because students generally attend no more than 1 year of higher education in Luxembourg and must complete their degrees in other countries. Detail may not sum to totals because of rounding.

SOURCE: Organization for Economic Cooperation and Development (OECD), Online Education Database, retrieved April 5, 2016, from <http://stats.oecd.org/Index.aspx>; and unpublished tabulations. (This table was prepared April 2016.)

Table 603.80. Percentage of master's or equivalent degrees and of doctoral or equivalent degrees awarded in mathematics, science, and engineering, by field of study and country: 2013

Country	All mathematics, science, and engineering fields ¹		Natural sciences ²		Mathematics and computer science ³		Engineering, manufacturing, and construction	
	Master's	Doctoral	Master's	Doctoral	Master's	Doctoral	Master's	Doctoral
1	2	3	4	5	6	7	8	9
OECD average⁴	21.9	43.6	5.0	20.7	3.9	6.0	13.0	17.0
Australia	16.1	39.1	1.6	18.7	5.5	5.3	9.0	15.2
Austria	21.2	47.3	5.4	19.8	4.3	7.7	11.5	19.7
Belgium	20.8	46.8	4.3	16.3	2.3	4.9	14.2	25.5
Canada	19.0	55.9	6.6	29.8	3.1	7.0	9.3	19.1
Chile	5.9	58.5	1.6	35.5	1.1	4.4	3.2	18.6
Czech Republic	24.5	48.0	4.7	22.9	5.3	5.7	14.5	19.3
Denmark	22.8	43.2	5.4	#	7.2	17.7	10.3	25.5
Estonia	30.0	50.7	6.1	27.9	6.0	6.9	17.9	15.9
Finland	27.3	41.5	4.9	12.8	4.4	4.8	17.9	23.7
France	26.9	61.9	4.7	39.6	4.9	8.9	16.8	13.4
Germany	31.3	43.8	9.0	27.2	7.5	5.6	14.8	11.0
Greece	32.1	39.1	7.2	12.6	10.0	8.1	14.8	18.4
Hungary	17.9	37.2	3.8	20.5	2.4	7.7	11.6	9.0
Iceland	—	—	—	—	—	—	—	—
Ireland	13.6	44.4	1.6	23.9	7.8	7.0	4.2	13.5
Israel	11.7	52.4	4.7	37.3	2.5	5.7	4.6	9.3
Italy	25.1	45.4	5.1	21.5	2.0	4.1	18.0	19.8
Japan	42.3	38.3	—	—	—	—	32.7	23.0
Korea, Republic of	22.4	38.7	4.0	10.7	1.6	2.3	16.8	25.7
Mexico	11.1	27.9	3.0	13.6	1.2	1.7	6.9	12.6
Netherlands	13.9	33.6	3.4	—	2.9	—	7.6	18.7
New Zealand	28.8	46.2	9.7	26.0	3.7	6.6	15.4	13.6
Norway	23.6	41.7	6.0	8.1	3.8	3.5	13.5	9.9
Poland	18.1	—	3.3	—	3.0	—	11.8	—
Portugal	26.2	43.0	6.2	17.5	2.0	5.0	17.9	20.6
Slovak Republic	19.5	40.9	3.4	12.7	3.4	3.5	12.8	24.7
Slovenia	23.1	40.0	4.4	16.0	3.6	6.5	15.1	17.5
Spain	21.4	45.1	6.8	28.7	3.1	7.6	11.6	8.8
Sweden	31.5	51.2	4.8	17.4	3.0	6.3	23.7	27.4
Switzerland	21.8	42.4	7.0	25.1	3.0	4.4	11.8	12.9
Turkey	19.6	20.4	6.9	10.5	3.4	2.7	9.3	7.2
United Kingdom	20.7	46.6	6.8	26.0	4.0	6.7	9.7	13.8
United States	12.1	41.4	2.4	20.9	3.4	5.6	6.3	14.9
Other reporting countries								
Colombia	8.0	47.4	0.9	22.6	1.5	1.9	5.6	22.9
Latvia	22.6	40.0	3.5	15.5	5.3	6.0	13.9	18.4
Russian Federation ..	21.8	40.5	1.5	15.5	3.1	9.4	17.2	15.6
Saudi Arabia	8.7	9.4	—	—	—	—	2.5	3.8
South Africa	24.1	37.8	—	—	—	—	11.1	7.8

—Not available.

#Rounds to zero.

¹Includes life science; physical science; mathematics/statistics; computer science; and engineering, manufacturing, and construction.

²Includes life science and physical science.

³Includes mathematics/statistics and computer science.

⁴Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally.

NOTE: Data in this table refer to degrees classified as International Standard Classification of Education (ISCED) 2011 level 7 (master's or equivalent degree) and ISCED 2011 level 8 (doctoral or equivalent degree). Data for Luxembourg are not included because students generally attend no more than 1 year of higher education in Luxembourg and must complete their degrees in other countries. Detail may not sum to totals because of rounding.

SOURCE: Organization for Economic Cooperation and Development (OECD), Online Education Database, retrieved April 5, 2016, from <http://stats.oecd.org/Index.aspx>; and unpublished tabulations. (This table was prepared April 2016.)

Table 603.90. Employment to population ratios of 25- to 64-year-olds, by sex, highest level of educational attainment, and country: 2014

Country	Total population, 25 to 64 years old				Male				Female			
	All levels of education	Less than high school completion	High school completion	Associate's or higher degree	All levels of education	Less than high school completion	High school completion	Associate's or higher degree	All levels of education	Less than high school completion	High school completion	Associate's or higher degree
1	2	3	4	5	6	7	8	9	10	11	12	13
OECD average¹	73.3	55.7	73.8	83.3	80.4	65.9	80.8	87.8	66.3	45.9	66.0	79.2
Australia	75.6	59.7	77.3	82.9	83.0	69.2	84.7	88.9	68.5	51.5	67.8	78.0
Austria	75.0	53.0	75.9	85.3	79.6	59.1	79.8	87.2	70.5	49.5	71.6	83.3
Belgium	70.5	47.5	72.8	84.7	75.1	56.1	78.1	87.2	65.9	38.1	66.9	82.6
Canada	76.2	55.8	73.9	81.6	80.2	64.5	79.2	84.9	72.2	44.6	67.3	79.0
Chile ²	70.2	61.3	71.6	84.0	86.4	84.2	86.3	90.7	56.3	41.8	58.7	78.2
Czech Republic	76.7	43.0	77.6	84.5	85.4	53.5	85.6	92.3	67.8	37.1	68.7	77.2
Denmark	78.3	61.7	79.4	86.3	82.0	69.4	83.0	89.2	74.5	52.8	75.1	84.2
Estonia	76.7	60.3	74.4	84.0	81.1	65.7	80.0	89.5	72.6	51.0	67.5	80.8
Finland	74.8	53.5	73.2	83.5	76.0	58.1	75.0	85.6	73.6	46.5	70.9	81.9
France ²	72.1	54.3	73.3	84.4	76.4	61.8	76.8	87.3	68.0	47.7	69.5	81.9
Germany	79.1	58.0	79.7	88.1	84.1	67.4	83.5	91.3	74.1	50.9	76.0	84.0
Greece	56.0	46.9	54.5	68.5	65.7	58.6	67.1	72.5	46.6	34.4	42.9	64.8
Hungary	69.6	45.3	71.8	81.8	76.8	54.7	78.2	88.4	62.8	38.1	64.6	77.0
Iceland	85.5	76.8	86.6	90.8	89.2	83.3	89.6	93.5	81.8	70.7	82.1	88.8
Ireland	68.8	46.6	67.9	81.1	75.4	58.1	76.4	85.6	62.4	31.9	59.4	77.4
Israel	75.5	48.6	72.3	86.1	80.3	63.6	76.9	89.5	70.8	32.2	66.7	83.4
Italy	62.9	49.6	69.8	77.8	73.4	64.1	79.1	83.2	52.7	34.1	60.6	73.7
Japan	78.7	—	—	—	89.7	—	—	—	67.6	—	—	—
Korea, Republic of	73.6	66.2	72.1	77.4	86.5	78.9	84.9	89.7	60.4	58.3	59.1	62.6
Luxembourg	75.8	60.9	72.1	84.6	82.6	70.0	79.8	88.9	68.8	53.5	64.2	79.7
Mexico	67.7	63.3	73.1	79.1	87.9	87.6	90.0	87.3	50.0	43.8	54.8	70.8
Netherlands	76.6	58.8	77.9	87.7	82.8	70.9	83.0	90.3	70.5	47.8	72.5	84.9
New Zealand	80.3	70.9	80.3	87.2	87.8	78.1	89.5	92.9	73.5	64.8	70.0	82.8
Norway	81.5	61.9	81.5	89.9	84.1	66.5	85.3	91.4	78.7	56.8	76.7	88.6
Poland	69.0	39.2	66.2	86.2	76.3	49.5	75.3	90.7	61.9	29.0	55.9	83.0
Portugal	70.4	63.0	77.6	82.7	74.5	69.1	81.1	85.5	66.6	56.4	74.4	80.9
Slovak Republic	69.4	32.7	71.1	80.0	76.6	37.0	78.1	87.4	62.2	29.5	63.4	73.9
Slovenia	70.4	48.5	69.5	83.2	74.3	55.7	73.5	86.5	66.3	42.3	64.1	80.7
Spain	62.7	49.4	65.9	77.2	68.2	57.4	71.6	80.8	57.1	40.7	60.1	74.0
Sweden	82.9	65.9	84.7	89.0	85.3	72.7	87.1	90.2	80.3	58.2	81.4	88.1
Switzerland	83.4	69.2	82.3	88.9	88.8	78.3	87.6	92.3	77.9	62.4	77.7	84.4
Turkey	57.1	50.8	61.9	76.1	77.8	74.6	81.1	84.3	33.4	27.0	32.0	64.7
United Kingdom ³	77.8	60.1	80.0	84.6	83.7	70.4	85.3	88.6	72.0	51.0	74.1	80.9
United States	71.9	54.8	67.9	80.1	77.5	66.2	73.7	85.0	66.5	41.5	61.9	75.9

—Not available.

¹Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally.

²Data are for 2013 instead of 2014.

³High school completion data include some persons (18 percent of the total) who have completed a sufficient volume and standard of programs, any one of which individually would be classified as a program that only partially completes the high school (or upper secondary) level of education.

NOTE: All data in this table were calculated using International Standard Classification of Education (ISCED) 2011. High school completion refers to completion of ISCED 2011 level 3 (upper secondary education); programs classified under ISCED 2011 as only partially complet-

ing level 3 are not included in the high school completion data except where otherwise noted. In this table, persons completing ISCED 2011 level 4 are also considered to have high school completion as their highest level of educational attainment. ISCED level 4 typically corresponds to postsecondary vocational programs below the associate's degree level in the United States. Associate's or higher degrees include ISCED 2011 level 5 (corresponding to the associate's degree in the United States), level 6 (bachelor's or equivalent degree), level 7 (master's or equivalent degree), and level 8 (doctoral or equivalent degree). For each country, the employment to population ratio of 25- to 64-year-olds is the number of persons in this age group who are employed as a percentage of the total civilian population in this age group.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance, 2015*. (This table was prepared April 2016.)

Table 604.10. Average literacy and numeracy scale scores of 25- to 65-year-olds, by sex, age group, highest level of educational attainment, and country or other education system: 2012
[Standard errors appear in parentheses]

Country or other education system ¹	Total population of 25- to 65-year-olds	Sex		Age group				Highest level of educational attainment ²			
		Male	Female	25 to 34	35 to 44	45 to 54	55 to 65	Less than high school completion	High school completion	Associate's degree	Bachelor's or higher degree
1	2	3	4	5	6	7	8	9	10	11	12
OECD average⁴											
Literacy scale score³											
OECD average⁴	271 (0.2)	273 (0.3)	270 (0.2)	284 (0.4)	279 (0.3)	268 (0.3)	255 (0.3)	235 (0.5)	268 (0.3)	286 (0.5)	302 (0.3)
Austria	268 (0.8)	270 (1.1)	266 (1.0)	280 (1.5)	275 (1.7)	266 (1.4)	250 (1.6)	239 (2.1)	268 (0.9)	282 (2.2)	305 (1.7)
Canada	273 (0.6)	274 (0.9)	271 (0.9)	285 (1.3)	279 (1.4)	268 (1.3)	260 (1.1)	219 (2.1)	265 (1.1)	278 (1.2)	300 (1.0)
Czech Republic	273 (1.0)	274 (1.3)	271 (1.5)	287 (1.8)	275 (2.0)	266 (1.7)	262 (2.0)	242 (3.4)	269 (1.0)	293 (4.6)	303 (2.5)
Denmark	270 (0.7)	270 (1.1)	269 (0.9)	282 (1.7)	281 (1.6)	266 (1.4)	252 (1.1)	234 (2.1)	264 (1.2)	286 (1.3)	298 (1.5)
England (UK)	274 (1.1)	275 (1.4)	273 (1.4)	280 (2.1)	279 (1.6)	271 (1.8)	265 (2.0)	241 (1.6)	273 (1.5)	283 (2.4)	302 (1.9)
Estonia	273 (0.8)	273 (1.2)	274 (0.9)	286 (1.7)	278 (1.2)	269 (1.4)	261 (1.5)	244 (2.0)	267 (1.0)	276 (1.5)	298 (1.4)
Finland	286 (0.8)	284 (1.4)	287 (1.2)	309 (1.7)	299 (2.1)	284 (1.8)	260 (1.4)	245 (2.8)	276 (1.4)	294 (1.5)	318 (1.6)
Flanders (Belgium)	274 (0.9)	277 (1.1)	270 (1.1)	291 (1.8)	282 (1.6)	272 (1.6)	255 (1.6)	232 (2.0)	265 (1.2)	294 (1.6)	313 (1.7)
France	259 (0.6)	260 (0.9)	259 (0.8)	278 (1.4)	267 (1.3)	254 (1.2)	242 (1.3)	224 (1.3)	258 (0.9)	287 (1.4)	297 (1.2)
Germany	268 (1.0)	271 (1.2)	265 (1.3)	281 (1.8)	275 (1.6)	264 (1.7)	254 (1.7)	220 (3.0)	262 (1.1)	280 (2.3)	301 (1.6)
Ireland	266 (1.0)	267 (1.3)	264 (1.2)	276 (1.5)	271 (1.8)	259 (2.1)	251 (1.8)	232 (1.8)	266 (1.5)	279 (1.9)	301 (1.7)
Italy	249 (1.1)	249 (1.6)	248 (1.4)	260 (2.2)	253 (1.9)	249 (1.8)	233 (2.2)	231 (1.6)	263 (1.3)	†	†
Japan	296 (0.7)	297 (1.0)	294 (1.0)	309 (1.7)	307 (1.0)	297 (1.5)	273 (1.6)	260 (2.6)	287 (1.0)	304 (1.4)	320 (1.1)
Korea, Republic of	269 (0.6)	273 (0.9)	264 (0.9)	290 (1.2)	278 (1.2)	259 (1.4)	244 (1.4)	230 (1.7)	265 (1.0)	282 (1.4)	297 (1.3)
Netherlands	282 (0.8)	286 (1.2)	278 (1.0)	298 (2.0)	294 (1.8)	277 (1.7)	261 (1.6)	246 (1.7)	283 (1.3)	293 (3.4)	312 (1.3)
Northern Ireland (UK)	268 (2.1)	271 (2.7)	265 (2.0)	278 (2.9)	274 (2.3)	262 (2.6)	255 (3.2)	239 (2.6)	270 (2.6)	280 (3.3)	303 (2.9)
Norway	279 (0.7)	281 (1.1)	277 (1.1)	289 (1.8)	288 (1.6)	277 (1.5)	262 (1.5)	251 (1.8)	271 (1.4)	288 (3.1)	303 (1.1)
Poland	264 (0.7)	260 (1.1)	267 (1.0)	277 (1.5)	268 (1.9)	259 (1.7)	249 (1.7)	227 (2.6)	254 (1.0)	—	†
Slovak Republic	273 (0.7)	273 (1.0)	274 (0.9)	278 (1.4)	278 (1.4)	270 (1.3)	266 (1.3)	238 (1.9)	275 (0.9)	—	†
Spain	250 (0.8)	253 (1.1)	248 (1.2)	263 (1.5)	260 (1.3)	248 (1.5)	227 (1.9)	225 (1.3)	258 (1.4)	266 (2.1)	295 (1.8)
Sweden	278 (0.8)	280 (1.2)	276 (1.2)	290 (1.9)	287 (1.8)	276 (1.7)	262 (1.3)	238 (2.2)	277 (1.2)	294 (2.4)	309 (1.4)
United States	269 (1.1)	270 (1.3)	269 (1.4)	275 (2.0)	273 (1.8)	266 (1.7)	263 (1.5)	211 (2.7)	259 (1.4)	282 (2.8)	302 (1.7)
Non-OECD education systems											
Cyprus ⁵	269 (0.9)	269 (1.3)	270 (1.1)	275 (1.7)	270 (1.5)	270 (1.7)	261 (1.6)	248 (1.9)	266 (1.2)	273 (2.0)	290 (1.5)
Russian Federation ⁶	275 (3.0)	274 (3.3)	277 (3.1)	273 (4.1)	278 (3.9)	277 (3.7)	275 (3.9)	248 (7.5)	272 (4.2)	276 (2.8)	282 (3.1)
Numeracy scale score³											
OECD average⁴	268 (0.2)	275 (0.3)	262 (0.3)	279 (0.4)	275 (0.4)	266 (0.4)	253 (0.4)	227 (0.5)	265 (0.3)	283 (0.9)	303 (0.4)
Austria	274 (0.9)	281 (1.3)	267 (1.1)	282 (1.7)	281 (2.0)	274 (1.7)	257 (1.7)	237 (2.3)	276 (1.1)	292 (2.6)	315 (1.8)
Canada	265 (0.8)	273 (1.0)	257 (1.0)	276 (1.4)	272 (1.5)	260 (1.4)	251 (1.4)	206 (2.5)	255 (1.2)	271 (1.5)	295 (1.0)
Czech Republic	275 (1.0)	280 (1.5)	270 (1.4)	288 (1.8)	277 (1.8)	272 (2.2)	263 (2.0)	235 (3.3)	271 (1.0)	287 (6.1)	313 (2.5)
Denmark	279 (0.8)	285 (1.4)	273 (1.0)	287 (1.9)	290 (1.6)	277 (1.6)	265 (1.2)	241 (2.4)	275 (1.3)	295 (1.4)	309 (1.8)
England (UK)	263 (1.1)	270 (1.4)	256 (1.6)	267 (2.2)	269 (1.9)	259 (1.9)	257 (1.9)	226 (1.9)	262 (1.5)	271 (3.0)	295 (2.2)
Estonia	272 (0.6)	276 (1.0)	269 (0.9)	284 (1.7)	275 (1.1)	269 (1.4)	259 (1.3)	236 (1.8)	265 (0.9)	275 (1.4)	300 (1.3)
Finland	282 (0.8)	286 (1.3)	277 (1.2)	302 (2.1)	292 (2.2)	279 (2.0)	260 (1.3)	244 (2.8)	271 (1.3)	291 (1.6)	314 (1.7)
Flanders (Belgium)	280 (0.9)	289 (1.2)	271 (1.3)	295 (1.9)	289 (1.8)	280 (1.9)	260 (1.6)	235 (1.9)	272 (1.2)	300 (1.5)	323 (1.8)
France	252 (0.7)	258 (1.0)	247 (1.0)	269 (1.5)	262 (1.6)	246 (1.4)	234 (1.5)	208 (1.3)	251 (1.0)	287 (1.7)	299 (1.4)
Germany	271 (1.1)	280 (1.4)	262 (1.4)	282 (1.8)	279 (2.0)	268 (1.9)	256 (1.9)	210 (3.4)	264 (1.2)	287 (2.5)	310 (1.7)
Ireland	255 (1.0)	261 (1.4)	249 (1.3)	266 (1.7)	260 (1.7)	250 (2.1)	238 (2.3)	218 (2.2)	254 (1.6)	274 (2.1)	294 (1.9)
Italy	246 (1.1)	253 (1.6)	240 (1.4)	262 (2.3)	251 (1.9)	244 (2.0)	229 (2.2)	225 (1.5)	265 (1.5)	†	†
Japan	289 (0.8)	296 (1.2)	282 (1.1)	297 (1.6)	297 (1.3)	291 (1.7)	273 (1.6)	247 (2.5)	281 (1.3)	291 (1.3)	319 (1.2)
Korea, Republic of	260 (0.7)	266 (1.0)	254 (1.1)	281 (1.4)	271 (1.5)	251 (1.4)	232 (1.7)	215 (1.9)	256 (1.0)	275 (1.6)	293 (1.5)
Netherlands	279 (0.8)	288 (1.3)	270 (1.1)	293 (1.8)	287 (2.1)	277 (1.7)	262 (1.7)	243 (1.9)	281 (1.2)	292 (3.5)	310 (1.3)
Northern Ireland (UK)	258 (1.8)	265 (2.2)	251 (2.0)	268 (2.9)	266 (2.4)	252 (2.1)	245 (3.1)	225 (2.9)	261 (2.1)	273 (3.0)	298 (2.4)
Norway	280 (0.9)	288 (1.3)	272 (1.2)	285 (2.0)	289 (1.9)	280 (1.7)	265 (1.7)	246 (2.2)	273 (1.5)	296 (3.7)	306 (1.3)
Poland	258 (1.0)	259 (1.5)	257 (1.0)	270 (1.5)	262 (2.2)	254 (2.1)	244 (1.9)	216 (3.1)	250 (1.2)	—	†
Slovak Republic	275 (0.9)	277 (1.2)	274 (1.1)	279 (1.6)	281 (1.7)	275 (1.6)	265 (1.6)	226 (2.4)	278 (1.0)	—	†
Spain	245 (0.7)	251 (1.1)	238 (1.1)	257 (1.3)	255 (1.3)	242 (1.6)	221 (1.7)	217 (1.3)	254 (1.5)	264 (2.4)	283 (1.3)
Sweden	279 (1.0)	286 (1.5)	272 (1.2)	288 (2.0)	286 (2.0)	276 (2.3)	268 (1.7)	237 (2.6)	277 (1.4)	297 (2.6)	311 (1.5)
United States	254 (1.2)	262 (1.3)	246 (1.5)	260 (2.2)	258 (1.9)	250 (2.1)	247 (1.8)	185 (3.1)	241 (1.5)	266 (3.1)	293 (1.7)
Non-OECD education systems											
Cyprus ⁵	265 (0.9)	270 (1.2)	260 (1.3)	273 (2.0)	269 (1.6)	265 (1.8)	250 (1.8)	230 (2.3)	264 (1.4)	270 (2.1)	292 (1.6)
Russian Federation ⁶	269 (2.8)	268 (3.3)	271 (3.0)	269 (4.2)	270 (3.6)	272 (3.2)	267 (3.9)	234 (8.5)	265 (4.0)	268 (2.6)	280 (3.0)

—Not available.

†Not applicable.

‡Reporting standards not met (too few cases).

¹Most of the education systems represent complete countries, but three of them represent subnational entities: England (which is part of the United Kingdom), Flanders (which is part of Belgium), and Northern Ireland (which is part of the United Kingdom).

²High school completion includes International Standard Classification of Education (ISCED) 1997 levels 3 and 4, with the exception of ISCED level 3C short programs. ISCED 3C short programs do not correspond to high school completion in the United States and are included in the "less than high school completion" column in this table. The associate's degree data in this table refer to degrees classified as ISCED 1997 level 5B. The data for bachelor's or higher degree refer to degrees classified as ISCED 1997 level 5A and as level 6.

³Scale scores range from 0 to 500.

⁴Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries and subnational education systems, to which each country or subnational education system reporting data contributes equally, with the exception of England (UK) and Northern Ireland (UK), which contribute to the mean as a combined entity, England/Northern Ireland (UK).

⁵Cyprus includes only the population under the effective control of the Government of the Republic of Cyprus. For the educational attainment data (columns 9 through 12), the item response rate for Cyprus is below 85 percent; missing data have not been explicitly accounted for.

⁶The Russian Federation does not include the population of the Moscow municipal region.

SOURCE: Organization for Economic Cooperation and Development (OECD), Program for the International Assessment of Adult Competencies (PIAAC), 2012. (This table was prepared May 2016.)

Table 604.20. Percentage distribution of 25- to 65-year-olds, by literacy proficiency level, numeracy proficiency level, selected levels of educational attainment, and country or other education system: 2012

[Standard errors appear in parentheses]

Country or other education system ¹	Total population of 25- to 65-year-olds				Highest level of educational attainment ²							
					High school completion				Bachelor's or higher degree			
	At or below level 1	At level 2	At level 3	At level 4 or level 5	At or below level 1	At level 2	At level 3	At level 4 or level 5	At or below level 1	At level 2	At level 3	At level 4 or level 5
1	2	3	4	5	6	7	8	9	10	11	12	13
Percentage distribution, by literacy proficiency level												
OECD average³	16.6 (0.15)	34.0 (0.21)	37.6 (0.21)	11.8 (0.13)	15.1 (0.23)	39.7 (0.34)	38.0 (0.33)	7.2 (0.18)	4.0 (0.16)	18.7 (0.35)	49.5 (0.45)	27.8 (0.40)
Austria	16.3 (0.70)	39.0 (1.06)	36.7 (1.04)	8.0 (0.47)	14.3 (0.86)	41.9 (1.38)	37.9 (1.40)	5.9 (0.60)	2.5 ! (0.79)	16.8 (1.99)	52.9 (2.47)	27.8 (2.03)
Canada	17.3 (0.47)	31.9 (0.70)	36.7 (0.74)	14.2 (0.55)	18.2 (0.85)	39.0 (1.05)	35.4 (1.13)	7.5 (0.80)	5.9 (0.49)	21.3 (0.88)	44.1 (1.20)	28.7 (1.20)
Czech Republic	12.5 (0.87)	38.5 (1.87)	40.9 (1.76)	8.1 (0.77)	12.4 (1.11)	43.4 (2.34)	39.5 (1.97)	4.8 (0.73)	1.9 ! (0.89)	17.1 (3.16)	57.2 (3.80)	23.8 (3.21)
Denmark	16.7 (0.58)	33.9 (0.83)	39.4 (0.81)	10.0 (0.57)	16.6 (1.01)	41.7 (1.48)	36.3 (1.46)	5.4 (0.64)	5.8 (0.69)	17.0 (1.20)	51.9 (1.86)	25.2 (1.87)
England (UK)	16.1 (0.77)	32.8 (0.97)	36.7 (1.01)	14.4 (0.89)	14.4 (1.36)	35.4 (1.81)	39.2 (1.58)	11.0 (1.07)	5.5 (1.06)	18.1 (1.55)	46.2 (2.37)	30.1 (2.26)
Estonia	14.3 (0.62)	35.5 (0.68)	39.3 (0.93)	10.9 (0.67)	16.0 (0.95)	40.4 (1.11)	37.2 (1.07)	6.5 (0.65)	4.4 (0.70)	22.8 (1.42)	48.4 (1.94)	24.5 (1.65)
Finland	11.6 (0.57)	27.5 (0.90)	39.2 (0.92)	21.7 (0.61)	13.3 (0.99)	33.8 (1.65)	39.6 (1.55)	13.2 (1.03)	2.9 (0.66)	11.0 (1.23)	39.7 (2.01)	46.4 (1.74)
Flanders (Belgium)	15.8 (0.66)	32.0 (0.96)	39.4 (1.06)	12.8 (0.65)	16.7 (1.13)	41.7 (1.53)	35.9 (1.76)	5.7 (0.68)	2.1 ! (0.65)	10.3 (1.62)	51.1 (2.84)	36.5 (2.44)
France	23.6 (0.55)	36.6 (0.77)	32.5 (0.69)	7.3 (0.39)	20.4 (0.95)	45.2 (1.08)	31.1 (0.96)	3.4 (0.44)	5.1 (0.71)	20.2 (1.40)	52.2 (1.56)	22.5 (1.51)
Germany	18.7 (0.86)	35.3 (1.12)	35.9 (1.00)	10.2 (0.64)	19.9 (1.13)	41.6 (1.55)	32.8 (1.33)	5.7 (0.73)	4.2 (0.90)	19.1 (1.66)	50.6 (1.84)	26.2 (1.80)
Ireland	18.5 (0.87)	37.2 (0.91)	35.6 (0.89)	8.8 (0.62)	14.7 (1.18)	42.3 (1.62)	37.6 (1.78)	5.3 (0.90)	3.0 (0.71)	20.7 (1.64)	52.2 (1.96)	24.2 (1.87)
Italy	29.2 (1.18)	42.5 (1.01)	25.1 (1.01)	3.2 (0.34)	16.6 (1.30)	44.6 (1.55)	34.9 (1.77)	3.9 (0.73)	9.2 (1.27)	30.9 (2.28)	48.2 (2.63)	11.7 (1.72)
Japan	5.3 (0.43)	23.4 (0.90)	48.4 (1.06)	22.9 (0.75)	5.8 (0.78)	30.1 (1.42)	51.1 (1.45)	13.0 (1.03)	1.1 ! (0.35)	8.2 (0.96)	46.2 (2.06)	44.5 (1.93)
Korea, Republic of	14.9 (0.60)	39.6 (0.92)	38.5 (0.96)	6.9 (0.43)	13.0 (0.92)	48.0 (1.67)	35.4 (1.74)	3.6 (0.50)	2.1 (0.56)	22.8 (1.48)	57.6 (1.66)	17.5 (1.30)
Netherlands	13.4 (0.56)	27.5 (0.82)	41.1 (0.84)	18.0 (0.74)	8.9 (0.96)	30.9 (1.47)	46.5 (1.56)	13.8 (1.04)	2.7 (0.59)	12.7 (1.09)	47.5 (1.52)	37.0 (1.56)
Northern Ireland (UK)	18.4 (1.29)	37.0 (1.71)	34.7 (1.76)	9.9 (0.78)	13.8 (1.97)	41.1 (2.91)	37.6 (3.61)	7.5 (1.21)	3.2 ! (0.99)	17.8 (2.14)	51.6 (2.26)	27.5 (2.55)
Norway	12.5 (0.67)	30.1 (0.90)	42.6 (0.86)	14.9 (0.67)	13.1 (1.26)	37.7 (1.62)	41.5 (1.47)	7.7 (0.95)	4.5 (0.57)	16.3 (1.09)	50.1 (1.44)	29.0 (1.26)
Poland	20.7 (0.73)	37.5 (1.09)	32.7 (1.05)	9.0 (0.60)	24.0 (1.08)	43.6 (1.39)	28.6 (1.15)	3.8 (0.53)	4.4 (0.77)	24.5 (1.53)	48.1 (2.05)	23.0 (1.68)
Slovak Republic	11.9 (0.69)	36.7 (1.18)	44.0 (1.02)	7.4 (0.53)	8.7 (0.68)	39.2 (1.53)	46.1 (1.48)	6.0 (0.60)	2.7 ! (0.84)	23.3 (2.01)	57.4 (2.04)	16.6 (1.85)
Spain	29.2 (0.84)	39.1 (0.84)	27.0 (0.76)	4.8 (0.43)	21.0 (1.42)	46.1 (1.96)	29.5 (1.81)	3.5 (0.82)	5.8 (0.90)	23.3 (1.76)	50.1 (2.15)	14.8 (1.40)
Sweden	14.1 (0.71)	29.0 (1.13)	40.5 (0.99)	16.4 (0.62)	11.7 (0.96)	32.9 (1.71)	44.9 (1.83)	10.5 (0.90)	4.9 (0.64)	13.2 (1.35)	44.5 (1.78)	37.4 (1.90)
United States	19.2 (0.88)	32.8 (1.15)	35.5 (1.08)	12.5 (0.79)	22.0 (1.32)	41.7 (1.83)	30.8 (1.38)	5.5 (0.79)	3.7 (0.68)	18.9 (1.28)	49.6 (1.79)	27.8 (2.02)
Non-OECD education systems												
Cyprus ⁴	14.4 (0.73)	39.7 (1.31)	38.7 (1.18)	7.1 (0.53)	14.5 (1.20)	43.1 (2.24)	37.5 (2.17)	4.8 (0.79)	4.6 (0.94)	29.9 (2.42)	49.3 (2.27)	16.2 (1.45)
Russian Federation ⁵	12.9 (1.63)	34.7 (1.92)	41.5 (2.17)	10.9 (1.93)	15.0 (2.46)	35.8 (2.59)	39.9 (3.68)	9.4 ! (2.87)	9.8 (1.85)	31.2 (3.01)	45.3 (3.29)	13.7 (2.60)
Percentage distribution, by numeracy proficiency level												
OECD average³	19.8 (0.16)	33.1 (0.20)	34.3 (0.20)	12.8 (0.14)	18.4 (0.25)	38.8 (0.33)	34.6 (0.33)	8.2 (0.19)	5.0 (0.18)	19.6 (0.35)	45.3 (0.45)	30.1 (0.40)
Austria	15.0 (0.72)	34.2 (0.96)	37.0 (1.05)	13.8 (0.66)	11.7 (0.90)	37.1 (1.27)	39.6 (1.41)	11.5 (0.88)	2.5 ! (0.94)	12.9 (1.90)	44.6 (2.56)	40.0 (2.33)
Canada	23.3 (0.57)	31.8 (0.65)	32.2 (0.76)	12.7 (0.50)	26.8 (1.21)	38.0 (1.25)	29.2 (1.17)	6.0 (0.58)	8.3 (0.67)	23.5 (1.12)	42.0 (1.58)	26.2 (1.23)
Czech Republic	13.2 (0.87)	35.4 (1.31)	39.9 (1.24)	11.5 (0.81)	12.7 (1.02)	40.1 (1.72)	40.7 (1.76)	6.6 (0.84)	1.1 ! (0.44)	13.5 (2.52)	50.0 (3.70)	35.4 (3.22)
Denmark	14.3 (0.58)	29.7 (0.78)	38.3 (0.82)	17.7 (0.56)	12.8 (1.07)	35.4 (1.41)	39.8 (1.37)	12.0 (0.95)	5.5 (0.64)	14.0 (1.36)	41.9 (1.70)	38.7 (1.91)
England (UK)	24.1 (1.04)	32.8 (1.15)	30.7 (1.08)	12.3 (0.85)	22.4 (1.43)	37.1 (1.79)	31.8 (2.03)	8.8 (1.35)	8.1 (1.61)	23.2 (1.95)	42.1 (2.07)	26.6 (1.92)
Estonia	15.0 (0.55)	36.6 (0.71)	37.4 (0.63)	11.0 (0.46)	16.5 (0.95)	42.3 (1.15)	34.6 (1.07)	6.5 (0.60)	4.2 (0.64)	21.4 (1.48)	49.0 (2.02)	25.5 (1.55)
Finland	13.5 (0.58)	29.3 (0.70)	37.5 (0.91)	19.7 (0.66)	16.4 (0.98)	35.7 (1.27)	36.0 (1.39)	11.8 (1.04)	3.3 (0.67)	13.5 (1.38)	41.9 (1.94)	41.3 (1.89)
Flanders (Belgium)	14.7 (0.68)	29.2 (0.83)	37.8 (1.03)	18.3 (0.78)	15.0 (1.04)	37.1 (1.55)	38.0 (1.57)	10.0 (1.06)	1.7 ! (0.63)	8.4 (1.45)	41.4 (2.45)	48.4 (2.52)
France	29.9 (0.69)	33.5 (0.79)	28.3 (0.59)	8.4 (0.37)	26.8 (1.02)	43.0 (1.16)	26.8 (0.99)	3.4 (0.42)	5.9 (0.79)	20.0 (1.13)	48.2 (1.40)	25.9 (1.37)
Germany	19.1 (0.79)	31.5 (0.91)	34.9 (0.90)	14.5 (0.68)	19.7 (1.05)	38.7 (1.30)	33.4 (1.42)	8.1 (0.74)	3.4 (0.88)	15.6 (1.65)	45.5 (1.71)	35.5 (1.86)
Ireland	25.8 (0.94)	37.7 (0.96)	28.7 (0.89)	7.8 (0.66)	23.8 (1.57)	43.6 (1.58)	28.1 (1.37)	4.5 (0.72)	5.2 (0.89)	26.8 (1.74)	46.5 (2.31)	21.5 (2.14)
Italy	32.4 (1.13)	39.0 (1.15)	24.1 (1.03)	4.6 (0.37)	17.4 (1.38)	40.7 (1.92)	35.3 (1.81)	6.6 (0.75)	11.8 (1.65)	31.7 (2.32)	42.3 (2.59)	14.2 (1.80)
Japan	8.2 (0.55)	27.7 (0.92)	44.4 (0.94)	19.7 (0.70)	8.6 (1.01)	34.0 (1.56)	46.3 (1.61)	11.0 (1.10)	1.0 ! (0.41)	10.4 (0.99)	45.0 (1.86)	43.5 (1.76)
Korea, Republic of	21.3 (0.64)	40.3 (0.98)	32.1 (0.89)	6.3 (0.52)	20.3 (1.14)	49.4 (1.34)	27.5 (1.40)	2.8 (0.56)	3.3 (0.67)	26.4 (1.65)	53.3 (2.00)	17.0 (1.55)
Netherlands	14.5 (0.60)	28.6 (0.85)	39.3 (1.00)	17.6 (0.72)	10.5 (1.13)	32.4 (1.78)	43.3 (1.93)	13.8 (1.10)	2.8 (0.64)	15.6 (1.14)	46.8 (1.78)	34.9 (1.78)
Northern Ireland (UK)	26.0 (1.54)	36.1 (1.36)	29.4 (1.34)	8.5 (0.74)	20.4 (2.01)	42.9 (2.24)	30.9 (2.52)	5.8 (1.19)	4.8 (1.10)	21.5 (2.20)	49.2 (2.74)	24.5 (2.32)
Norway	14.4 (0.62)	28.1 (0.89)	38.3 (0.96)	19.1 (0.73)	15.0 (1.19)	34.8 (1.58)	38.3 (1.46)	11.8 (1.24)	5.4 (0.61)	15.8 (1.07)	44.2 (1.57)	34.5 (1.46)
Poland	24.9 (0.88)	37.5 (1.03)	29.4 (1.10)	8.1 (0.63)	28.2 (1.11)	42.7 (1.52)	25.3 (1.25)	3.9 (0.62)	7.3 (1.00)	28.0 (1.77)	44.7 (2.28)	20.0 (1.63)
Slovak Republic	14.1 (0.65)	32.5 (0.96)	40.8 (1.07)	12.6 (0.72)	9.9 (0.71)	36.0 (1.21)	44.0 (1.32)	10.2 (0.93)	2.0 ! (0.65)	18.1 (1.58)	51.0 (2.49)	28.9 (2.12)
Spain	32.1 (0.72)	39.6 (0.97)	24.2 (0.78)	4.1 (0.37)	22.8 (1.63)	46.9 (2.07)	26.8 (1.88)	3.6 (0.73)	7.0 (0.88)	33.7 (1.85)	47.4 (2.18)	11.9 (1.35)
Sweden	15.2 (0.79)	27.9 (1.08)	37.5 (1.02)	19.4 (0.76)	13.1 (1.02)	31.5 (1.70)	40.9 (1.90)	14.5 (1.16)	4.9 (0.68)	14.0 (1.69)	40.8 (1.85)	40.2 (2.00)
United States	29.8 (0.93)	32.9 (1.05)	27.7 (0.90)	9.6 (0.66)	36.4 (1.34)	39.3 (1.69)	20.6 (1.58)	3.7 (0.67)	7.5 (0.73)	24.1 (1.56)	45.9 (1.82)	22.6 (1.82)
Non-OECD education systems												
Cyprus ⁴	18.9 (0.81)	38.6 (1.17)	33.9 (1.17)	8.7 (0.62)	17.4 (1.30)	42.1 (1.93)	34.1 (1.99)	6.4 (1.08)	5.6 (0.96)	28.5 (2.07)	46.1 (2.26)	19.9 (1.62)
Russian Federation ⁵	14.4 (1.66)	39.8 (1.95)	38.1 (1.74)	7.7 (1.44)	17.1 (3.00)	41.5 (3.33)	35.5 (3.59)	5.9 (1.74)	8.5 (1.59)	36.7 (2.84)	42.9 (2.56)	11.9 (2.27)

Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 and 50 percent.

¹Most of the education systems represent complete countries, but three of them represent subnational entities: England (which is part of the United Kingdom), Flanders (which is part of Belgium), and Northern Ireland (which is part of the United Kingdom).

²High school completion includes International Standard Classification of Education (ISCED) 1997 levels 3 and 4, with the exception of ISCED level 3C short programs. ISCED 3C short programs do not correspond to high school completion in the United States and are not included in the high school completion columns in this table. The data for bachelor's or higher degree refer to degrees classified as ISCED 1997 level 5A and as level 6.

³Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries and subnational education systems, to which each country or subnational education system reporting data contributes equally, with the exception of England (UK) and Northern Ireland (UK), which contribute to the mean as a combined entity, England/Northern Ireland (UK).

⁴Cyprus includes only the population under the effective control of the Government of the Republic of Cyprus. For the educational attainment data (columns 6 through 13), the item response rate for Cyprus is below 85 percent; missing data have not been explicitly accounted for.

⁵The Russian Federation does not include the population of the Moscow municipal region.

NOTE: In this table, scores below level 1 and scores at level 1 are combined into the "at or below level 1" reporting category; scores at level 4 and scores at level 5 are combined into the "at level 4 or level 5" reporting category. For both literacy and numeracy, the proficiency-level reporting categories correspond to the score ranges shown in parentheses: at or below level 1 (0–225.9), at level 2 (226.0–275.9), at level 3 (276.0–325.9), at level 4 or level 5 (326.0–500.0).

SOURCE: Organization for Economic Cooperation and Development (OECD), Program for the International Assessment of Adult Competencies (PIAAC), 2012. (This table was prepared May 2016.)

Table 604.30. Employment rates and mean monthly earnings of 25- to 65-year-olds, by literacy proficiency level, numeracy proficiency level, and country or other education system: 2012

[Standard errors appear in parentheses]

Country or other education system ¹	Total population of 25- to 65-year-olds		Proficiency level ²							
	Employment rate of labor force ³	Mean monthly earnings (in current dollars)	At or below level 1		At level 2		At level 3		At level 4 or level 5	
			Employment rate of labor force ³	Mean monthly earnings (in current dollars) ⁴	Employment rate of labor force ³	Mean monthly earnings (in current dollars) ⁴	Employment rate of labor force ³	Mean monthly earnings (in current dollars) ⁴	Employment rate of labor force ³	Mean monthly earnings (in current dollars) ⁴
1	2	3	4	5	6	7	8	9	10	11
Literacy										
OECD average⁵	93.7 (0.08)	\$2,930 (9)	89.7 (0.36)	\$2,170 (24)	93.1 (0.19)	\$2,580 (16)	95.1 (0.16)	\$3,140 (16)	96.4 (0.30)	\$3,740 (36)
Austria	96.2 (0.38)	— (†)	92.9 (1.54)	— (†)	96.0 (0.79)	— (†)	97.2 (0.60)	— (†)	97.8 (1.28)	— (†)
Canada	95.9 (0.22)	— (†)	93.7 (0.92)	— (†)	95.4 (0.55)	— (†)	96.7 (0.46)	— (†)	97.3 (0.61)	— (†)
Czech Republic	94.2 (0.20)	1,620 (22)	91.3 (2.62)	1,320 (66)	92.6 (0.93)	1,470 (43)	95.6 (0.87)	1,720 (43)	97.7 (1.39)	2,030 (96)
Denmark	94.5 (0.38)	4,090 (28)	90.8 (1.45)	3,210 (84)	94.5 (0.75)	3,730 (53)	95.0 (0.62)	4,390 (58)	96.4 (1.44)	4,850 (139)
England (UK)	94.0 (0.08)	3,180 (43)	87.5 (1.65)	2,140 (108)	92.5 (0.91)	2,610 (91)	96.2 (0.55)	3,440 (96)	97.3 (0.79)	4,380 (151)
Estonia	93.4 (0.34)	1,750 (25)	89.5 (1.48)	1,420 (75)	92.1 (0.75)	1,560 (42)	94.5 (0.53)	1,820 (41)	97.4 (0.74)	2,260 (87)
Finland	95.5 (0.39)	3,250 (18)	92.5 (2.04)	2,670 (120)	95.3 (0.84)	2,920 (56)	95.8 (0.59)	3,330 (43)	96.1 (0.63)	3,590 (56)
Flanders (Belgium)	98.0 (0.21)	3,650 (35)	96.5 (0.93)	2,790 (106)	97.4 (0.55)	3,220 (67)	98.6 (0.40)	3,860 (69)	98.9 (0.68)	4,470 (151)
France	92.9 (0.19)	2,490 (17)	89.4 (1.08)	1,910 (39)	92.9 (0.66)	2,340 (33)	94.3 (0.64)	2,760 (33)	95.0 (1.39)	3,270 (84)
Germany	95.2 (0.40)	— (†)	91.1 (1.53)	— (†)	94.9 (0.84)	— (†)	96.3 (0.63)	— (†)	98.3 (0.73)	— (†)
Ireland	89.2 (0.53)	3,410 (52)	83.6 (1.95)	2,370 (106)	86.7 (1.12)	2,950 (68)	92.0 (1.02)	3,820 (90)	95.8 (1.36)	4,610 (206)
Italy	87.7 (0.66)	2,510 (36)	84.1 (1.91)	2,290 (103)	87.2 (1.30)	2,360 (68)	90.8 (1.34)	2,800 (75)	93.5 (3.39)	3,140 (248)
Japan	97.6 (0.22)	3,000 (37)	98.9 (1.01)	2,210 (199)	99.1 (0.63)	2,540 (84)	97.5 (0.45)	3,000 (60)	96.2 (0.83)	3,550 (100)
Korea, Republic of	96.8 (0.27)	3,000 (32)	97.4 (0.86)	2,180 (86)	97.0 (0.53)	2,820 (60)	96.7 (0.59)	3,290 (63)	95.5 (1.71)	3,960 (133)
Netherlands	95.8 (0.41)	3,490 (30)	91.5 (2.00)	2,350 (117)	94.7 (0.93)	2,930 (75)	97.0 (0.59)	3,640 (63)	96.8 (0.88)	4,230 (90)
Northern Ireland (UK)	94.7 (0.49)	2,750 (42)	90.6 (2.03)	1,820 (90)	94.4 (0.96)	2,330 (96)	95.9 (1.01)	3,070 (92)	96.0 (2.10)	3,870 (188)
Norway	97.1 (0.31)	4,090 (30)	93.6 (1.66)	2,910 (110)	96.8 (0.74)	3,630 (66)	97.6 (0.45)	4,340 (56)	98.8 (0.65)	4,850 (99)
Poland	91.9 (0.49)	1,610 (22)	88.0 (1.75)	1,260 (56)	90.8 (1.08)	1,430 (52)	93.9 (0.89)	1,780 (56)	95.5 (1.56)	2,190 (90)
Slovak Republic	90.7 (0.48)	1,570 (25)	79.6 (2.60)	1,060 (63)	90.4 (1.06)	1,380 (39)	92.5 (0.80)	1,700 (46)	93.3 (2.09)	2,110 (150)
Spain	82.7 (0.63)	2,390 (32)	75.1 (1.60)	1,910 (55)	82.5 (1.32)	2,260 (48)	87.4 (1.19)	2,680 (61)	92.1 (2.30)	3,280 (157)
Sweden	94.9 (0.44)	— (†)	85.3 (2.21)	— (†)	94.2 (1.01)	— (†)	96.3 (0.69)	— (†)	98.4 (0.73)	— (†)
United States	92.5 (0.44)	4,260 (80)	89.0 (1.53)	2,730 (150)	90.8 (1.13)	3,480 (110)	93.8 (0.85)	4,740 (148)	97.1 (0.72)	6,310 (323)
Non-OECD education systems										
Cyprus ⁶	92.0 (0.64)	2,860 (38)	87.3 (2.50)	2,490 (149)	91.8 (1.22)	2,660 (73)	93.1 (1.03)	3,010 (73)	93.9 (2.04)	3,440 (197)
Russian Federation ⁷	94.9 (1.02)	840 (25)	95.0 (2.53)	790 (55)	95.9 (1.48)	770 (31)	95.0 (1.33)	870 (36)	91.7 (2.82)	1,000 (61)
Numeracy										
OECD average⁵	93.7 (0.08)	\$2,930 (9)	88.8 (0.36)	\$2,110 (21)	93.2 (0.20)	\$2,560 (16)	95.5 (0.17)	\$3,180 (18)	97.0 (0.27)	\$3,940 (38)
Austria	96.2 (0.38)	— (†)	92.7 (1.56)	— (†)	95.9 (0.79)	— (†)	97.0 (0.56)	— (†)	97.6 (0.88)	— (†)
Canada	95.9 (0.22)	— (†)	93.0 (0.83)	— (†)	95.7 (0.57)	— (†)	96.8 (0.54)	— (†)	98.4 (0.58)	— (†)
Czech Republic	94.2 (0.20)	1,620 (22)	87.3 (2.81)	1,280 (56)	92.8 (0.92)	1,460 (38)	95.9 (0.69)	1,690 (43)	97.9 (1.82)	2,060 (86)
Denmark	94.5 (0.38)	4,090 (28)	89.4 (1.72)	3,100 (84)	93.2 (1.02)	3,580 (66)	95.6 (0.60)	4,210 (64)	96.8 (0.77)	4,980 (98)
England (UK)	94.0 (0.08)	3,180 (43)	87.6 (1.25)	2,120 (90)	94.1 (0.83)	2,690 (81)	96.5 (0.74)	3,650 (102)	97.6 (0.87)	4,530 (179)
Estonia	93.4 (0.34)	1,750 (25)	87.6 (1.53)	1,250 (65)	92.2 (0.76)	1,520 (46)	94.9 (0.58)	1,850 (45)	98.0 (0.73)	2,470 (83)
Finland	95.5 (0.39)	3,250 (18)	90.8 (2.06)	2,510 (89)	94.9 (0.94)	2,880 (57)	96.3 (0.58)	3,320 (47)	96.8 (0.62)	3,830 (73)
Flanders (Belgium)	98.0 (0.21)	3,650 (35)	96.8 (0.99)	2,640 (96)	97.4 (0.62)	3,100 (65)	98.5 (0.39)	3,740 (57)	98.5 (0.51)	4,650 (129)
France	92.9 (0.19)	2,490 (17)	89.1 (0.87)	1,850 (31)	92.4 (0.75)	2,300 (32)	95.5 (0.84)	2,860 (37)	95.7 (1.42)	3,440 (87)
Germany	95.2 (0.40)	— (†)	89.8 (1.52)	— (†)	94.5 (0.89)	— (†)	96.4 (0.65)	— (†)	98.8 (0.58)	— (†)
Ireland	89.2 (0.53)	3,410 (52)	84.1 (1.85)	2,340 (96)	88.2 (1.12)	3,030 (85)	92.1 (1.17)	3,970 (113)	94.9 (1.77)	4,990 (281)
Italy	87.7 (0.66)	2,510 (36)	82.5 (1.91)	2,260 (105)	88.0 (1.28)	2,330 (60)	90.8 (1.28)	2,770 (84)	95.0 (2.64)	3,290 (205)
Japan	97.6 (0.22)	3,000 (37)	98.8 (0.95)	1,980 (141)	96.9 (0.83)	2,420 (85)	97.6 (0.54)	2,990 (66)	98.1 (0.64)	4,030 (99)
Korea, Republic of	96.8 (0.27)	3,000 (32)	96.4 (0.85)	2,210 (72)	96.8 (0.52)	2,880 (61)	96.9 (0.61)	3,370 (68)	97.1 (1.17)	4,040 (145)
Netherlands	95.8 (0.41)	3,490 (30)	90.1 (1.95)	2,280 (116)	95.5 (0.92)	2,900 (79)	96.9 (0.57)	3,650 (70)	97.2 (0.96)	4,470 (106)
Northern Ireland (UK)	94.7 (0.49)	2,750 (42)	91.2 (1.54)	1,810 (81)	94.5 (1.19)	2,400 (70)	96.4 (1.06)	3,230 (107)	96.0 (2.39)	3,990 (213)
Norway	97.1 (0.31)	4,090 (30)	92.9 (1.65)	2,880 (119)	96.6 (0.77)	3,480 (69)	97.9 (0.45)	4,250 (61)	98.5 (0.56)	5,110 (101)
Poland	91.9 (0.49)	1,610 (22)	86.5 (1.75)	1,260 (53)	91.8 (1.15)	1,430 (38)	94.0 (0.86)	1,800 (49)	96.4 (1.47)	2,290 (107)
Slovak Republic	90.7 (0.48)	1,570 (25)	75.3 (2.92)	1,030 (62)	89.5 (1.12)	1,320 (52)	93.4 (0.77)	1,660 (43)	94.9 (1.41)	2,090 (94)
Spain	82.7 (0.63)	2,390 (32)	74.2 (1.59)	1,830 (51)	82.7 (1.45)	2,270 (53)	88.9 (1.51)	2,800 (68)	93.3 (2.70)	3,300 (170)
Sweden	94.9 (0.44)	— (†)	86.2 (2.24)	— (†)	93.9 (1.33)	— (†)	96.5 (0.68)	— (†)	98.2 (0.63)	— (†)
United States	92.5 (0.44)	4,260 (80)	88.2 (1.36)	2,760 (94)	91.3 (1.13)	3,690 (120)	95.6 (0.92)	5,110 (157)	98.1 (0.71)	6,780 (370)
Non-OECD education systems										
Cyprus ⁶	92.0 (0.64)	2,860 (38)	86.6 (2.24)	2,250 (112)	91.7 (1.26)	2,630 (75)	93.4 (1.04)	3,050 (74)	95.9 (1.57)	3,640 (163)
Russian Federation ⁷	94.9 (1.02)	840 (25)	96.3 (2.04)	750 (55)	95.5 (1.41)	780 (35)	94.9 (1.53)	890 (38)	90.5 (3.89)	990 (68)

—Not available.

†Not applicable.

¹Most of the education systems represent complete countries, but three of them represent subnational entities: England (which is part of the United Kingdom), Flanders (which is part of Belgium), and Northern Ireland (which is part of the United Kingdom).

²In this table, scores below level 1 and scores at level 1 are combined into the “at or below level 1” reporting category; scores at level 4 and scores at level 5 are combined into the “at level 4 or level 5” reporting category. For both literacy and numeracy, the proficiency-level reporting categories correspond to the score ranges shown in parentheses: at or below level 1 (0–225.9), at level 2 (226.0–275.9), at level 3 (276.0–325.9), at level 4 or level 5 (326.0–500.0).

³The employment rate is the percentage of the labor force that is employed. The labor force consists of those who are employed as well as those who are unemployed but actively looking for work.

⁴Mean monthly earnings for those who are employed. Data adjusted to U.S. dollars using the purchasing power parity (PPP) index.

⁵Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries and subnational education systems, to which each country or subnational education system reporting data contributes equally, with the exception of England (UK) and Northern Ireland (UK), which contribute to the mean as a combined entity, England/Northern Ireland (UK).

⁶Cyprus includes only the population under the effective control of the Government of the Republic of Cyprus.

⁷The Russian Federation does not include the population of the Moscow municipal region. SOURCE: Organization for Economic Cooperation and Development (OECD), Program for the International Assessment of Adult Competencies (PIAAC), 2012. (This table was prepared March 2016.)

Table 605.10. Gross domestic product per capita and public and private education expenditures per full-time-equivalent (FTE) student, by level of education and country: Selected years, 2005 through 2012

Country	Gross domestic product per capita				Elementary and secondary education expenditures per FTE student								Higher education expenditures per FTE student							
	2005	2008	2009	2010	2011	2012	2012	2005	2008	2009	2010	2011	2012	2005	2008	2009	2010	2011	2012	2013
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Current dollars																				
OECD average ¹	\$28,772	\$33,886	\$33,206	\$33,471	\$35,491	\$36,852	\$6,751	\$8,180	\$9,632	\$8,501	\$9,832	\$9,954	\$11,342	\$13,391	\$13,707	\$13,211	\$13,881	\$14,815	\$14,815	\$14,815
Australia	33,983	39,532	39,971	40,801	43,208	43,158	7,142	7,814	9,139	9,803	9,383	8,790	14,579	15,043	16,074	15,142	16,267	16,859	16,859	16,859
Austria	34,107	39,849	38,834	40,411	42,978	44,882	9,436	10,994	11,681	11,693	12,509	12,164	14,775	15,043	14,257	15,007	14,895	15,549	15,549	15,549
Belgium	32,077	36,879	36,698	37,878	40,093	41,684	7,306	9,706	9,774	10,722	10,226	11,007	11,960	15,020	15,420	15,179	15,420	15,503	15,503	15,503
Canada	—	38,522	40,136	37,480	42,585	—	7,774	8,997	9,774	10,078	10,226	—	22,810	20,903	22,475	23,226	22,006	22,006	—	—
Chile	12,635	14,106	14,578	15,107	17,312	21,486	2,099	2,245	2,635	2,935	3,203	4,522	6,873	6,829	6,829	6,863	7,101	8,333	8,333	8,333
Czech Republic	20,280	25,845	25,614	25,364	27,046	28,679	4,098	5,236	5,615	5,532	6,128	6,419	6,649	8,318	8,237	7,635	9,392	10,319	10,319	10,319
Denmark	33,626	39,494	38,299	40,600	41,843	43,564	8,997	10,429	11,094	11,404	10,230	10,780	14,959	17,634	18,556	18,977	21,254	—	—	—
Estonia	16,660	21,802	19,789	20,093	23,088	24,689	3,736	6,054	6,149	5,984	6,055	6,334	3,869	6,022	6,373	6,501	7,868	8,206	8,206	8,206
Finland	30,468	37,795	35,848	36,030	38,611	40,209	6,610	8,068	8,314	8,591	9,180	9,353	12,285	15,402	16,569	16,714	18,002	17,863	17,863	17,863
France	29,644	34,233	33,724	34,395	36,391	37,347	7,456	8,559	8,861	9,070	9,329	9,338	10,995	14,079	14,642	15,067	15,375	15,281	15,281	15,281
Germany	30,496	37,171	36,048	37,661	40,990	42,730	7,039	7,859	8,534	—	9,521	9,843	12,446	15,390	15,711	—	16,723	17,157	17,157	17,157
Greece	25,472	29,920	29,381	27,539	26,622	25,462	5,493	—	—	—	—	—	6,130	—	—	—	—	—	—	—
Hungary	17,014	20,700	20,154	20,625	22,413	22,494	4,027	4,626	4,506	4,555	4,527	4,371	6,244	7,327	8,518	8,745	9,210	8,876	8,876	8,876
Iceland	35,571	39,029	36,718	35,509	38,224	40,464	8,815	9,745	9,309	9,638	9,326	9,333	9,474	10,429	9,939	8,728	8,612	9,377	9,377	9,377
Ireland	38,061	42,644	39,750	41,000	42,943	45,210	6,411	8,915	9,615	9,638	9,830	9,893	10,468	16,284	16,420	16,008	16,095	14,922	14,922	14,922
Israel	21,474	27,690	27,454	26,552	30,168	31,296	5,041	5,780	5,464	5,692	6,277	6,325	10,919	12,568	11,214	10,730	11,554	12,338	12,338	12,338
Italy ²	27,750	33,271	32,397	32,110	33,870	35,334	7,410	9,071	8,943	8,489	8,534	8,450	8,026	9,553	9,562	9,580	9,990	10,071	10,071	10,071
Japan ³	30,290	33,902	32,324	35,238	34,967	35,695	7,343	8,301	8,502	9,168	9,102	9,408	12,326	14,890	15,957	16,015	16,446	16,872	16,872	16,872
Korea, Republic of	21,342	26,877	27,171	28,829	29,035	32,022	5,638	6,723	8,122	7,396	7,652	7,934	7,606	9,081	9,513	9,972	9,927	9,866	9,866	9,866
Luxembourg	69,984	89,732	82,972	84,672	86,668	91,754	15,930	16,909	18,018	19,050	19,600	20,153	—	—	—	—	—	—	32,876	32,876
Mexico	11,299	15,190	14,397	15,195	17,125	16,767	2,025	2,284	2,339	2,464	2,765	2,801	6,402	7,504	8,020	7,872	7,889	8,115	8,115	8,115
Netherlands	34,724	42,887	41,089	41,682	43,150	46,062	7,045	9,251	10,030	10,075	10,288	10,464	13,883	17,245	17,849	17,161	17,949	19,276	19,276	19,276
New Zealand	24,882	29,231	29,204	29,629	31,487	32,165	6,659	6,996	7,556	7,681	8,831	8,445	10,262	10,526	10,619	10,418	10,582	13,740	13,740	13,740
Norway ⁷	47,620	43,659	54,708	44,825	46,696	51,368	9,975	12,070	12,971	13,067	13,219	13,611	15,552	18,942	19,269	18,512	18,840	20,016	20,016	20,016
Poland ⁴	13,573	18,062	18,910	20,034	21,753	22,869	3,165	4,682	5,167	5,693	6,066	6,764	5,593	7,063	7,776	8,866	9,659	9,799	9,799	9,799
Portugal ¹	19,967	24,962	24,935	25,519	25,672	27,204	5,646	6,276	7,288	7,419	7,282	7,444	8,787	10,373	10,481	10,578	9,640	9,196	9,196	9,196
Slovak Republic ²	15,881	23,205	22,620	23,194	25,130	25,725	2,740	4,006	4,781	5,066	5,105	5,231	5,783	6,560	6,758	6,904	8,177	9,022	9,022	9,022
Slovenia	23,043	29,241	27,150	26,649	28,156	28,455	7,065	8,555	8,670	8,505	8,867	8,457	8,573	9,263	9,311	9,693	10,413	11,002	11,002	11,002
Spain	27,270	33,173	32,146	31,574	32,157	32,775	6,411	8,522	8,818	8,479	8,476	8,152	10,089	13,366	13,614	13,373	13,173	12,356	12,356	12,356
Sweden	32,770	39,321	37,192	39,251	41,761	43,869	7,861	9,524	9,709	10,044	10,548	10,652	15,946	20,014	19,961	19,562	20,818	22,534	22,534	22,534
Switzerland ⁴	35,500	45,517	44,773	48,962	51,582	55,623	10,721	13,775	13,411	13,510	14,623	15,512	21,734	21,648	21,577	21,893	22,882	25,264	25,264	25,264
Turkey	—	14,963	14,442	15,775	17,781	18,002	—	—	—	2,020	2,501	2,784	—	—	—	—	—	8,193	7,779	7,779
United Kingdom	31,580	36,817	34,483	35,299	33,886	37,170	6,888	9,169	9,602	9,980	9,738	10,056	13,506	15,310	16,338	15,862	14,223	24,338	24,338	24,338
United States ⁹	41,674	46,901	45,087	46,548	49,321	49,895	9,771	11,107	11,818	11,826	11,841	11,732	23,435	27,499	27,066	25,576	26,021	26,562	26,562	26,562

See notes at end of table.

Table 605.10. Gross domestic product per capita and public and private education expenditures per full-time-equivalent (FTE) student, by level of education and country: Selected years, 2005 through 2012—Continued

Country	Gross domestic product per capita						Elementary and secondary education expenditures per FTE student						Higher education expenditures per FTE student					
	2005	2008	2009	2010	2011	2012	2005	2008	2009	2010	2011	2012	2005	2008	2009	2010	2011	2012
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Constant 2014 dollars																		
OECD average ¹	\$34,878	\$37,259	\$36,642	\$36,339	\$37,353	\$37,998	\$9,183	\$8,994	\$9,525	\$9,230	\$9,295	\$9,232	\$13,749	\$14,724	\$15,126	\$14,343	\$14,609	\$15,276
Australia.....	41,195	43,467	44,107	44,297	45,474	44,500	8,657	8,592	10,085	10,643	9,875	9,063	17,673	16,540	17,737	16,439	17,120	17,383
Austria.....	41,345	43,816	42,852	43,873	45,232	46,289	11,439	12,088	12,889	12,895	13,165	12,543	17,911	16,541	15,733	16,293	15,676	16,032
Belgium.....	38,884	40,551	40,495	41,123	42,195	42,981	8,856	10,672	10,796	10,990	11,285	11,350	14,499	16,516	17,041	16,479	16,229	15,985
Canada.....	—	42,356	44,289	40,691	44,818	—	9,424 ²	9,892 ^{2,3}	10,786 ^{2,3}	10,941 ^{2,3}	10,762 ^{2,3}	—	27,650 ^{4,5}	22,984 ⁴	24,801 ⁴	25,216 ⁴	23,160 ⁴	—
Chile.....	15,316	15,510	16,086	16,401	18,219	22,155	2,544	2,488	2,908	3,187	3,371	4,663	8,331	7,509	7,536	7,451	7,473	8,592
Czech Republic.....	24,584	28,418	28,265	27,537	28,464	29,571	4,967	5,758	6,196	6,006	6,450	6,618	8,060	9,146	9,089	8,289	9,884	10,640
Denmark.....	40,762	43,426	42,262	44,078	44,037	44,920	10,906 ⁶	11,467 ⁶	12,242 ⁶	12,380 ⁶	10,766 ⁶	11,116	18,133 ⁶	19,389 ⁶	20,476 ⁶	20,603 ⁶	22,369 ⁶	—
Estonia.....	20,195	23,973	21,836	21,815	24,299	25,457	4,529	6,656	6,786	6,497	6,373	6,531	4,690	6,622 ⁵	7,032	7,058	8,281	8,462
Finland.....	36,934	41,558	39,557	39,116	40,636	41,460	8,013	8,871	9,174	9,326	9,661	9,643	14,892	16,935	18,283	18,146	18,946	18,419
France.....	35,935	37,641	37,214	37,341	38,299	38,509	9,039	9,411 ³	9,778 ³	9,847 ³	9,818 ³	9,828 ³	13,329	15,480	16,157	16,358	16,181	15,757
Germany.....	36,967	40,871	39,778	40,887	43,139	44,060	8,532	8,641	9,417	—	10,020	10,149	15,087	16,922	17,337	—	17,600	17,691
Greece.....	30,878	32,898	32,421	29,898	28,019	26,255	6,659 ²	—	—	—	—	—	7,432	—	—	—	—	—
Hungary.....	20,625	22,761	22,240	22,392	23,589	23,194	4,881 ⁴	5,087 ⁴	4,973 ⁴	4,945 ⁴	4,765 ⁴	4,507	7,569 ⁴	8,057 ⁴	9,399 ⁴	9,494 ⁴	9,693 ⁴	9,152
Iceland.....	43,120	42,914	40,517	38,552	40,229	41,722	10,686 ⁶	10,715	10,272	9,328	9,815	9,623	11,485 ⁵	11,468	10,967	9,476	9,064	9,669
Ireland.....	46,138	46,889	43,863	44,513	45,195	46,616	7,771	9,802 ⁴	10,610 ⁴	10,463 ⁴	10,345 ⁴	10,201 ⁴	12,689	17,905 ⁴	18,119 ⁴	17,379 ⁴	16,939 ⁴	15,386 ⁴
Israel.....	26,031	30,447	30,295	28,827	31,750	32,270	6,110	6,355	6,029	6,180	6,606	6,522	13,236	13,820	12,375	11,649	12,160	12,721
Italy ³	33,639	36,583	35,749	34,861	35,646	36,433	8,982 ⁴	9,974 ⁴	9,868 ⁴	9,216 ⁴	8,981 ⁴	8,713 ⁴	9,729 ⁴	10,505	10,551	10,400	10,514	10,384
Japan ⁴	36,718	37,277	35,669	38,257	36,801	36,805	8,902	9,127	9,381	9,953	9,580	9,701	14,942	16,372	17,608	17,387	17,308	17,397
Korea, Republic of.....	25,871	29,552	29,983	31,299	30,557	33,018	6,835	7,392	8,963	8,030	8,053	8,181	9,220	9,985	10,498	10,826	10,447	10,173
Luxembourg.....	84,836	98,665	91,558	91,926	93,318	94,608	19,311 ^{2,3,4}	18,593 ³	19,882 ³	20,682 ³	20,628 ³	20,780	—	—	—	—	—	33,899 ⁴
Mexico.....	13,697	16,702	15,887	16,497	18,023	17,288	2,455	2,511	2,581	2,675	2,910	2,888	7,761	8,251	8,850	8,547	8,303	8,368
Netherlands.....	42,093	47,157	45,341	45,252	45,413	47,495	8,540	10,172	11,068	10,938	10,806	10,789	16,829	18,961	19,696	18,632	18,470	19,876
New Zealand.....	30,162	32,141	32,226	32,168	33,138	33,166	8,861	7,142	8,338	8,339	9,294	8,707	12,439	11,574	11,718	11,371	11,137	14,168
Norway ⁷	57,726	48,005	60,368	48,666	49,145	52,966	12,092	13,272	14,313	14,186	13,912	14,035 ⁸	18,853	20,827	21,263	20,098	19,828	20,639 ⁸
Poland ⁴	16,453	19,860	20,867	21,750	22,894	23,580	3,836	5,148	5,701	6,181	6,384	6,974	6,780	7,766	8,581	9,625	10,165	10,104
Portugal ¹	24,205	27,447	27,516	27,705	27,018	28,050	6,844 ³	6,901 ³	8,042 ³	8,055 ³	7,664 ³	7,676 ⁶	10,652	11,405	11,565	11,485	10,145	9,482 ⁶
Slovak Republic ³	19,251	25,515	24,960	25,181	26,448	26,525	3,321	4,405	5,275	5,500	5,373	5,394	7,011	7,213	7,457	7,495	8,606	9,303
Slovenia.....	27,934	32,152	29,959	28,932	29,632	29,341	8,564	9,407	9,568	9,234	9,332	8,720	10,392	10,185	10,275	10,523	10,960	11,344
Spain.....	33,057	36,476	35,473	34,278	33,843	33,794	7,771	9,370	9,731	9,205	8,920	8,406	12,230	14,697	15,023	14,519	13,864	12,740
Sweden.....	39,725	43,236	41,040	42,614	43,952	45,234	9,530	10,472	10,714	10,905	11,101	10,983	19,330	22,006	22,026	21,238	21,910	23,235
Switzerland ⁴	43,033	50,048	49,406	53,157	54,287	57,353	12,996	15,146	14,798	14,668	15,390	15,994	26,347	23,803	23,810	23,769	24,082	26,050
Turkey.....	—	16,452	15,936	17,127	18,713	18,562	—	—	—	2,193	2,632	2,871	—	—	—	—	8,623	8,021
United Kingdom.....	38,282	40,483	39,051	38,323	35,663	38,327	8,550	10,082	10,596	10,835	10,249	10,368	16,373	16,834	18,029	17,221	14,969	25,095
United States ⁹	50,518	51,570	49,753	50,536	51,908	51,447	11,844	12,213	13,040	12,839	12,462	12,097	28,408	30,237	29,867	27,767	27,386	27,388

—Not available.

¹Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year.

²Includes preprimary education (for children ages 3 and older).

³Education expenditures exclude postsecondary non-higher education.

⁴Education expenditures include public institutions only.

⁵Excludes occupation-specific education corresponding to that offered at the vocational associate's degree level in the United States.

⁶Postsecondary non-higher education included in both secondary and higher education.

⁷The GDP mainland market value is used for Norway.

⁸Occupation-specific education corresponding to that offered at the vocational associate's degree level in the United States is included in elementary and secondary education instead of in higher education.

⁹Postsecondary non-higher education included in higher education.

NOTE: Includes all expenditures by public and private education institutions (such as administration, instruction, ancillary services for students and families, and research and development) unless otherwise noted. Expenditures for International Standard Classification of Education (ISCED) level 4 (postsecondary non-higher education) are included in elementary and secondary education unless otherwise noted. Data adjusted to U.S. dollars using the purchasing power parity (PPP) index. Constant dollars based on the Consumer Price Index, prepared by the Bureau of Labor Statistics, U.S. Department of Labor. Data for 2011 and earlier years were calculated using the ISCED 1997 classification. Data for 2012 used the ISCED 2011 classification and may not be comparable to data for earlier years.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2008 through 2015. (This table was prepared December 2015.)

Table 605.20. Public and private direct expenditures on education institutions as a percentage of gross domestic product, by level of education and country: Selected years, 2000 through 2012

Country	All institutions										Elementary and secondary institutions (excludes preprimary unless otherwise noted)										Higher education institutions																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	Public direct expenditures ¹ (includes preprimary education, not separately shown)										Direct expenditures, 2012										Public direct expenditures ¹										Direct expenditures, 2012																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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—Not available.

¹Unless otherwise noted, includes public subsidies to households for payments to education institutions and direct expenditures on education institutions from international sources.²Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year.³Excludes public subsidies to households.⁴Direct expenditures on education institutions from international sources exceed 1.5 percent of all public expenditures.⁵Postsecondary non-higher-education included in higher education.⁶Includes preprimary education (for children ages 3 and older).⁷Includes postsecondary non-higher-education.

CHAPTER 7

Libraries and Internet Use

This chapter presents statistics on elementary and secondary school libraries, college and university libraries (including institution-level information for the 60 largest college libraries in the country), and public libraries. It contains data on library collections, staff, and expenditures, as well as library usage. The chapter ends with a table on internet usage among persons of various racial/ethnic groups, age groups, educational attainment levels, and income levels. Tables on the use of technology and distance education in elementary and secondary schools and in postsecondary institutions can be found in chapters 2 and 3.

Libraries

Among public schools that had a library in 2011–12, the average number of library staff per school was 1.8, including 0.9 certified library/media specialists (table 701.10). On average, public school libraries had larger numbers of books on a per student basis in 2011–12 (2,188 per 100 students) than in 1999–2000 (1,803 per 100 students), 2003–04 (1,891 per 100 students), and 2007–08 (2,015 per 100 students). In 2011–12, public elementary school libraries had larger holdings than public secondary school libraries on a per student basis (2,570 books per 100 students, compared with 1,474 books per 100 students).

At degree-granting postsecondary institutions, library operating expenditures per full-time-equivalent (FTE) student were 1 percent higher in 2001–02 than in 1991–92, after adjustment for inflation (table 701.40). From 2001–02 to 2011–12, library operating expenditures per FTE student dropped by 25 percent in inflation-adjusted dollars. Overall, there was a net decrease of 24 percent in library operating expenditures per FTE student between 1991–92 and 2011–12. In 2011–12, library operating expenditures per FTE student averaged \$441 (in current dollars) across all degree-granting institutions. The amount varied widely by institution control, however. Library operating expenditures averaged \$372 per FTE student attending a public institution in 2011–12, compared with \$844 per FTE student attending a private nonprofit institution and \$78 per FTE student attending a private for-profit institution. In 2011–12, the

average number of volumes (including books, bound periodicals, and other print materials) per FTE student also differed for public institutions (61 volumes), private nonprofit institutions (128 volumes), and private for-profit institutions (4 volumes). Across all degree-granting institutions, the average number of volumes per FTE student in 2011–12 was 69, which was 4 percent less than in 1991–92. The calculations of library operating expenditures and number of volumes per FTE student include both institutions with libraries and those without libraries. In 2011–12, there were libraries at 81 percent of degree-granting institutions overall, 95 percent of public institutions, 88 percent of private nonprofit institutions, and 55 percent of private for-profit institutions.

In 2013, there were 9,091 public libraries in the United States with a total of 775 million books and serial volumes (table 701.60). The annual number of visits per capita—that is, per resident of the areas served by the libraries—was 4.8, the annual number of reference transactions per capita was 0.9, and the annual number of uses of public-access internet computers per capita was 1.1.

Computer and Internet Use

In 2013, 71 percent of the U.S. population age 3 and over used the Internet (table 702.10). Comparing the White, Black, and Hispanic populations age 3 and over, the percentage of internet users was highest among Whites (75 percent), followed by Blacks (64 percent), and then Hispanics (61 percent). The percentage of internet users in the population age 3 and over was generally higher for those with higher family income levels. For example, 72 percent of people with family incomes from \$40,000 to \$49,999 used the Internet, compared to 85 percent of people with family incomes of \$100,000 or more. Among persons age 25 and over, the percentage of internet users tended to be higher for those with higher levels of educational attainment. For example, 54 percent of persons who had not completed high school used the Internet, compared with 64 percent of those who had completed only a high school diploma or equivalent and 89 percent of those with a bachelor's or higher degree.

Table 701.10. Selected statistics on public school libraries/media centers, by level of school: Selected years, 1999–2000 through 2011–12
[Standard errors appear in parentheses]

Selected statistic	1999–2000			2003–04			2007–08				2011–12			
	Total	Elementary	Secondary	Combined elementary/secondary	Total	Elementary	Secondary	Combined elementary/secondary	Total	Elementary	Secondary	Combined elementary/secondary	Total	Elementary
1	77,300 (421)	78,300 (548)	81,300 (634)	81,300 (634)	59,700 (492)	17,800 (414)	4,400 (239)	81,200 (510)	58,000 (418)	17,100 (357)	10	6,100 (373)	11	6,100 (373)
Number of schools with libraries/media centers.....	189 (0.018)	176 (0.014)	172 (0.011)	172 (0.011)	165 (0.019)	2.04 (0.039)	1.42 (0.057)	1.77 (0.017)	1.72 (0.020)	1.93 (0.027)	1.93 (0.027)	1.76 (0.056)	1.76 (0.056)	1.76 (0.056)
Average number of staff per library/media center.....	0.81 (0.007)	0.79 (0.009)	0.78 (0.011)	0.78 (0.011)	0.73 (0.013)	0.98 (0.019)	0.66 (0.033)	0.90 (0.012)	0.88 (0.014)	0.99 (0.017)	0.99 (0.017)	0.88 (0.031)	0.88 (0.031)	0.88 (0.031)
Certified library/media specialists.....	0.65 (0.007)	0.65 (0.009)	0.66 (0.010)	0.66 (0.010)	0.61 (0.012)	0.88 (0.018)	0.49 (0.032)	0.71 (0.010)	0.67 (0.012)	0.84 (0.017)	0.84 (0.017)	0.69 (0.029)	0.69 (0.029)	0.69 (0.029)
Full-time.....	0.16 (0.006)	0.14 (0.007)	0.13 (0.007)	0.13 (0.007)	0.13 (0.010)	0.10 (0.009)	0.18 (0.020)	0.20 (0.008)	0.21 (0.010)	0.15 (0.010)	0.15 (0.010)	0.19 (0.020)	0.19 (0.020)	0.19 (0.020)
Part-time.....	0.17 (0.007)	0.19 (0.008)	0.22 (0.010)	0.22 (0.010)	0.22 (0.013)	0.21 (0.021)	0.24 (0.027)	0.19 (0.007)	0.18 (0.009)	0.17 (0.014)	0.17 (0.014)	0.27 (0.026)	0.27 (0.026)	0.27 (0.026)
Other professional staff.....	0.12 (0.005)	0.13 (0.007)	0.13 (0.008)	0.13 (0.008)	0.13 (0.010)	0.14 (0.017)	0.15 (0.022)	0.12 (0.006)	0.11 (0.007)	0.13 (0.013)	0.13 (0.013)	0.16 (0.022)	0.16 (0.022)	0.16 (0.022)
Full-time.....	0.06 (0.004)	0.05 (0.005)	0.08 (0.007)	0.08 (0.007)	0.08 (0.009)	0.07 (0.013)	0.08 (0.017)	0.07 (0.005)	0.07 (0.007)	0.05 (0.005)	0.05 (0.005)	0.11 (0.014)	0.11 (0.014)	0.11 (0.014)
Other paid employees.....	0.91 (0.014)	0.78 (0.011)	0.72 (0.013)	0.72 (0.013)	0.70 (0.016)	0.86 (0.027)	0.51 (0.036)	0.68 (0.012)	0.66 (0.012)	0.76 (0.021)	0.76 (0.021)	0.61 (0.040)	0.61 (0.040)	0.61 (0.040)
Full-time.....	0.49 (0.008)	0.46 (0.009)	0.43 (0.013)	0.43 (0.013)	0.39 (0.016)	0.60 (0.022)	0.27 (0.028)	0.40 (0.008)	0.37 (0.009)	0.52 (0.017)	0.52 (0.017)	0.39 (0.031)	0.39 (0.031)	0.39 (0.031)
Part-time.....	0.41 (0.014)	0.33 (0.012)	0.29 (0.011)	0.29 (0.011)	0.31 (0.014)	0.26 (0.018)	0.24 (0.028)	0.28 (0.009)	0.29 (0.012)	0.24 (0.012)	0.24 (0.012)	0.22 (0.027)	0.22 (0.027)	0.22 (0.027)
Percent of libraries/media centers with certain media equipment														
Automated catalog.....	72.8 (0.69)	82.7 (0.66)	87.2 (0.71)	87.2 (0.71)	87.5 (0.94)	90.6 (1.08)	69.8 (2.88)	88.3 (0.49)	89.1 (0.60)	90.3 (0.78)	90.3 (0.78)	74.4 (2.16)	74.4 (2.16)	74.4 (2.16)
Automated circulation system.....	74.4 (0.65)	86.9 (0.61)	89.5 (0.68)	89.5 (0.68)	89.9 (0.87)	92.6 (0.98)	72.4 (3.15)	90.3 (0.47)	91.7 (0.59)	90.1 (0.75)	90.1 (0.75)	77.8 (2.17)	77.8 (2.17)	77.8 (2.17)
Media retrieval system ¹	90.1 (0.57)	95.1 (0.35)	96.7 (0.40)	96.7 (0.40)	96.5 (0.51)	98.6 (0.51)	91.6 (1.90)	95.9 (0.34)	96.2 (0.46)	97.3 (0.49)	97.3 (0.49)	89.6 (1.82)	89.6 (1.82)	89.6 (1.82)
Connection to internet.....	— (f)	87.8 (0.60)	87.2 (0.77)	87.2 (0.77)	86.7 (1.02)	89.6 (1.00)	84.5 (2.20)	83.2 (0.76)	82.8 (0.98)	86.7 (0.76)	86.7 (0.76)	77.7 (2.00)	77.7 (2.00)	77.7 (2.00)
Digital video disc (DVD) player/video recorder (VCR).....	— (f)	11.9 (0.50)	23.9 (1.05)	23.9 (1.05)	23.0 (1.33)	26.4 (1.34)	25.9 (2.76)	31.0 (0.75)	29.9 (0.94)	34.3 (1.02)	34.3 (1.02)	31.9 (1.95)	31.9 (1.95)	31.9 (1.95)
Disability assistance technologies, such as TDD.....	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)
Percent of libraries/media centers with certain services														
Students permitted to check out laptops.....	— (f)	— (f)	27.5 (1.02)	27.5 (1.02)	26.9 (1.27)	29.8 (1.34)	26.1 (2.57)	40.2 (0.69)	39.3 (0.85)	42.4 (1.08)	42.4 (1.08)	41.8 (2.67)	41.8 (2.67)	41.8 (2.67)
Staff permitted to check out laptops.....	— (f)	— (f)	45.9 (1.07)	45.9 (1.07)	45.2 (1.35)	50.1 (1.50)	38.5 (2.85)	54.3 (0.85)	53.9 (0.99)	55.5 (1.23)	55.5 (1.23)	54.2 (2.43)	54.2 (2.43)	54.2 (2.43)
Number of library computer workstations per 100 students.....	— (f)	2.3 (0.04)	2.6 (0.05)	2.6 (0.05)	2.5 (0.07)	2.9 (0.06)	3.0 (0.17)	3.1 (0.05)	2.8 (0.06)	3.6 (0.08)	3.6 (0.08)	3.3 (0.23)	3.3 (0.23)	3.3 (0.23)
Number of holdings per 100 students at the end of the school year ²														
Books (number of volumes).....	1,803 (19.7)	1,891 (45.1)	2,015 (30.5)	2,015 (30.5)	2,316 (40.2)	1,432 (36.6)	2,439 (132.3)	2,188 (42.4)	2,570 (58.5)	1,474 (24.7)	1,474 (24.7)	2,066 (87.3)	2,066 (87.3)	2,066 (87.3)
Audio and video materials.....	59 (0.9)	80 (3.7)	90 (3.8)	90 (3.8)	93 (5.6)	81 (5.2)	107 (13.3)	81 (2.4)	85 (3.3)	71 (2.9)	71 (2.9)	97 (8.3)	97 (8.3)	97 (8.3)
Number of additions per 100 students during the school year ²														
Books (number of volumes).....	— (f)	99.3 (2.08)	95.3 (2.21)	95.3 (2.21)	113.3 (3.26)	62.1 (2.67)	103.4 (7.41)	89.4 (3.47)	104.8 (5.45)	58.9 (2.08)	58.9 (2.08)	92.5 (6.54)	92.5 (6.54)	92.5 (6.54)
Audio and video materials.....	— (f)	5.1 (0.19)	5.4 (0.49)	5.4 (0.49)	5.9 (0.77)	4.5 (0.41)	5.7 (0.84)	4.3 (0.37)	3.8 (0.32)	4.2 (0.70)	4.2 (0.70)	8.2 (3.28)	8.2 (3.28)	8.2 (3.28)
Expenditures for library/media materials per pupil ³ in current dollars.....														
Total ³	\$23.37 (0.438)	\$16.24 (0.322)	\$16.11 (0.461)	\$16.11 (0.461)	\$16.18 (0.591)	\$15.90 (0.647)	\$17.00 (1.216)	\$16.00 (0.691)	\$16.48 (1.099)	\$14.80 (0.584)	\$14.80 (0.584)	\$17.26 (1.215)	\$17.26 (1.215)	\$17.26 (1.215)
Books.....	9.97 (0.153)	10.99 (0.299)	11.40 (0.291)	11.40 (0.291)	11.99 (0.389)	10.26 (0.504)	12.10 (1.094)	10.28 (0.343)	10.73 (0.480)	9.41 (0.526)	9.41 (0.526)	10.27 (0.830)	10.27 (0.830)	10.27 (0.830)
Audio and video materials.....	1.66 (0.032)	1.14 (0.045)	1.08 (0.055)	1.08 (0.055)	1.06 (0.068)	1.11 (0.054)	1.16 (0.152)	0.84 (0.072)	0.80 (0.113)	0.89 (0.062)	0.89 (0.062)	0.89 (0.131)	0.89 (0.131)	0.89 (0.131)
Current serial subscriptions.....	1.26 (0.016)	1.38 (0.025)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)
Electronic subscriptions.....	0.81 (0.018)	0.88 (0.033)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)
Expenditures for library/media materials per pupil ³ in constant 2014–15 dollars ⁴														
Total ³	\$32.67 (0.612)	\$20.65 (0.409)	\$18.01 (0.515)	\$18.01 (0.515)	\$18.08 (0.660)	\$17.78 (0.724)	\$19.00 (1.360)	\$16.64 (0.719)	\$17.14 (1.143)	\$15.39 (0.607)	\$15.39 (0.607)	\$17.95 (1.263)	\$17.95 (1.263)	\$17.95 (1.263)
Books.....	13.94 (0.214)	13.98 (0.380)	12.74 (0.326)	12.74 (0.326)	13.40 (0.435)	11.48 (0.564)	13.53 (1.207)	10.70 (0.357)	11.16 (0.499)	9.79 (0.547)	9.79 (0.547)	10.68 (0.863)	10.68 (0.863)	10.68 (0.863)
Audio and video materials.....	2.33 (0.045)	1.45 (0.057)	1.21 (0.062)	1.21 (0.062)	1.18 (0.098)	1.24 (0.060)	1.30 (0.166)	0.87 (0.075)	0.83 (0.118)	0.93 (0.065)	0.93 (0.065)	0.93 (0.136)	0.93 (0.136)	0.93 (0.136)
Current serial subscriptions.....	1.76 (0.022)	1.76 (0.032)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)
Electronic subscriptions.....	1.13 (0.025)	1.12 (0.042)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)	— (f)

—Not available.

†Not applicable.

Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 percent and 50 percent.

¹Centralized video distribution equipment with a scheduling and control server that telecasts video to classrooms.²Holdings, additions, and expenditures are from the prior school year, while enrollment counts are from the current school year.³Includes other expenditures not separately shown.

*Constant dollars based on the Consumer Price Index, prepared by the Bureau of Labor Statistics, U.S. Department of Labor, adjusted to a school-year basis.

NOTE: Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Library Media Center Questionnaire," 1999–2000, 2003–04, 2007–08, and 2011–12; and "Charter School Questionnaire," 1999–2000. (This table was prepared May 2016.)

Table 701.20. Selected statistics on public school libraries/media centers, by level and enrollment size of school: 2011–12
[Standard errors appear in parentheses]

Selected statistic	All public school libraries/media centers	Elementary school enrollment size					Secondary school enrollment size				
		Total	Less than 150	150 to 499	500 to 749	750 or more	Total	Less than 500	500 to 749	750 to 1,499	1,500 or more
1	2	3	4	5	6	7	8	9	10	11	12
Number of schools with libraries/media centers	81,200 (510)	58,000 (418)	3,000 (308)	29,700 (658)	16,600 (591)	8,600 (426)	17,100 (357)	6,400 (289)	3,100 (170)	4,600 (188)	3,000 (160)
Average number of staff per library/media center	1.77 (0.017)	1.72 (0.020)	1.76 (0.226)	1.66 (0.022)	1.75 (0.032)	1.87 (0.040)	1.93 (0.027)	1.58 (0.041)	1.76 (0.050)	2.07 (0.045)	2.63 (0.062)
Certified library/media specialists	0.90 (0.012)	0.88 (0.014)	0.90 (0.176)	0.86 (0.016)	0.88 (0.019)	0.92 (0.024)	0.99 (0.017)	0.78 (0.029)	0.95 (0.029)	1.10 (0.024)	1.32 (0.039)
Full-time	0.71 (0.010)	0.67 (0.012)	0.47 (0.171)	0.61 (0.015)	0.74 (0.016)	0.81 (0.022)	0.84 (0.017)	0.59 (0.029)	0.81 (0.025)	0.99 (0.021)	1.21 (0.037)
Part-time	0.20 (0.008)	0.21 (0.010)	0.44 (0.054)	0.26 (0.014)	0.14 (0.014)	0.11 (0.017)	0.15 (0.010)	0.19 (0.018)	0.15 (0.025)	0.11 (0.019)	0.12 (0.018)
Other professional staff	0.19 (0.007)	0.18 (0.009)	0.27 (0.081)	0.18 (0.014)	0.18 (0.020)	0.16 (0.019)	0.17 (0.014)	0.21 (0.027)	0.19 (0.030)	0.14 (0.015)	0.14 (0.019)
Full-time	0.12 (0.006)	0.11 (0.007)	0.19 (0.076)	0.10 (0.010)	0.09 (0.011)	0.13 (0.020)	0.13 (0.013)	0.14 (0.025)	0.12 (0.030)	0.11 (0.014)	0.13 (0.019)
Part-time	0.07 (0.005)	0.07 (0.007)	0.08 (0.034)	0.08 (0.010)	0.09 (0.016)	0.03 (0.009)	0.05 (0.005)	0.07 (0.013)	0.07 (0.017)	0.02 (0.006)	0.02 (0.005)
Other paid employees	0.68 (0.011)	0.66 (0.012)	0.59 (0.063)	0.61 (0.016)	0.68 (0.026)	0.79 (0.035)	0.76 (0.021)	0.59 (0.032)	0.62 (0.036)	0.84 (0.032)	1.16 (0.049)
Full-time	0.40 (0.008)	0.37 (0.009)	0.29 (0.048)	0.32 (0.013)	0.39 (0.017)	0.51 (0.035)	0.52 (0.017)	0.35 (0.024)	0.39 (0.030)	0.61 (0.028)	0.87 (0.044)
Part-time	0.28 (0.009)	0.29 (0.012)	0.30 (0.061)	0.29 (0.015)	0.30 (0.022)	0.28 (0.029)	0.24 (0.012)	0.24 (0.020)	0.23 (0.026)	0.22 (0.024)	0.29 (0.027)
Percent of libraries/media centers with certain media equipment											
Automated catalog	88.3 (0.49)	89.1 (0.60)	75.2 (4.05)	88.0 (0.97)	90.0 (1.14)	96.2 (0.81)	90.3 (0.78)	80.4 (1.72)	93.3 (1.72)	97.2 (0.73)	97.1 (0.82)
Automated circulation system	90.3 (0.47)	91.7 (0.59)	77.0 (4.30)	91.4 (0.80)	93.0 (1.07)	95.7 (0.97)	90.1 (0.75)	81.2 (1.60)	94.1 (1.62)	96.2 (0.94)	95.3 (1.00)
Media retrieval system	32.5 (0.76)	33.6 (0.99)	15.9 (3.35)	27.3 (1.48)	39.2 (1.77)	51.1 (2.24)	32.3 (0.91)	25.2 (1.89)	36.8 (2.56)	38.7 (1.99)	32.7 (2.19)
Connection to Internet	95.9 (0.34)	96.2 (0.46)	88.6 (3.28)	95.7 (0.66)	97.3 (0.79)	98.5 (0.64)	97.3 (0.49)	93.9 (1.18)	98.4 (0.67)	99.4 (0.33)	100.0 (†)
Digital video disc (DVD) player/video cassette recorder (VCR)	83.2 (0.76)	82.8 (0.98)	66.0 (5.70)	83.1 (1.33)	84.3 (1.49)	84.6 (2.02)	86.7 (0.76)	83.9 (1.50)	89.5 (1.82)	88.4 (1.23)	87.0 (1.88)
Disability assistance technologies, such as TDD	31.0 (0.75)	29.9 (0.94)	20.7 (3.54)	26.8 (1.33)	33.2 (2.00)	37.4 (2.25)	34.3 (1.02)	30.8 (2.29)	34.6 (2.53)	36.8 (2.17)	37.6 (2.67)
Percent of libraries/media centers with certain services											
Students permitted to check out laptops	40.2 (0.69)	39.3 (0.85)	31.7 (4.21)	38.5 (1.52)	39.7 (2.01)	44.1 (2.02)	42.4 (1.08)	42.7 (2.07)	40.3 (2.72)	44.3 (2.12)	40.9 (2.77)
Staff permitted to check out laptops	54.3 (0.85)	53.9 (0.99)	38.9 (4.84)	51.8 (1.65)	57.5 (1.89)	59.6 (2.20)	55.5 (1.23)	52.6 (2.24)	55.6 (2.76)	58.1 (2.31)	57.8 (2.37)
Number of library computer workstations per 100 students	3.1 (0.05)	2.8 (0.06)	12.0 (1.49)	3.7 (0.13)	2.3 (0.09)	2.1 (0.07)	3.6 (0.08)	7.2 (0.35)	4.4 (0.16)	3.5 (0.09)	2.6 (0.12)
Number of holdings per 100 students at the end of the school year ²											
Books (number of volumes)	2,188 (42.4)	2,570 (58.5)	9,505 (1472.0)	3,273 (115.0)	2,366 (101.2)	1,692 (53.5)	1,474 (24.7)	3,252 (98.6)	1,908 (74.2)	1,338 (21.2)	976 (20.9)
Audio and video materials	81 (2.4)	85 (3.3)	201 (58.1)	100 (6.6)	80 (4.5)	67 (5.9)	71 (2.9)	131 (8.7)	83 (7.3)	73 (5.4)	50 (4.0)
Number of additions per 100 students during the school year ²											
Books (number of volumes)	89.4 (3.47)	104.8 (5.45)	423.0 (83.50)	126.3 (6.91)	99.5 (12.14)	73.4 (4.29)	58.9 (2.08)	124.0 (9.17)	77.5 (5.52)	50.0 (2.54)	43.0 (3.70)
Audio and video materials	4.3 (0.37)	3.8 (0.32)	10.6 (4.33)	4.7 (0.50)	3.2 (0.29)	3.2 (0.79)	4.2 (0.70)	5.8 (0.66)	4.3 (0.55)	3.5 (0.67)	4.5 (1.50)
Total expenditures for library/media materials per pupil ³	\$16.00 (0.691)	\$16.48 (1.099)	\$46.34 (7.286)	\$20.40 (1.625)	\$15.81 (2.409)	\$11.31 (0.649)	\$14.80 (0.584)	\$27.69 (2.135)	\$18.59 (2.051)	\$13.48 (0.571)	\$11.26 (1.169)
Books	10.28 (0.343)	10.73 (0.480)	32.08 (5.256)	12.82 (0.566)	9.83 (1.001)	8.47 (0.505)	9.41 (0.526)	16.28 (1.284)	12.55 (2.077)	8.06 (0.451)	7.70 (1.025)
Audio and video materials	0.84 (0.072)	0.80 (0.113)	1.02 (0.257)	0.80 (0.074)	1.00 (0.294)	0.56 (0.064)	0.89 (0.062)	1.50 (0.238)	0.79 (0.072)	0.88 (0.080)	0.77 (0.113)

†Not applicable.
Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 percent and 50 percent.
¹Centralized video distribution equipment with a scheduling and control server that telecasts video to classrooms.
²Holdings, additions, and expenditures are from the prior school year, while enrollment counts are from the current school year.
³Includes other expenditures not separately shown.

NOTE: Total includes combined elementary/secondary schools not separately shown. Detail may not sum to totals because of rounding.
SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Library Media Center Questionnaire," 2011–12. (This table was prepared December 2013.)

Table 701.30. Selected statistics on public school libraries/media centers, by state: 2011–12
[Standard errors appear in parentheses]

State	Percent of libraries/media centers offering selected services/equipment										Books (number of volumes) held at end of year per 100 students ³	Books (number of volumes) acquired during year per 100 students ³	Total expenditure for materials per student ³	Number of library computer workstations per 100 students
	Automated catalog	Automated circulation system	Laptops for student use outside of library/ media center	Laptops for staff use outside of library/ media center	Media retrieval system ¹	Connection to the Internet	DVD player/VCR	Average number of staff per library/ media center ²						
1	2	3	4	5	6	7	8	9	10	11	12	13		
United States	88.3 (0.49)	90.3 (0.47)	40.2 (0.69)	54.3 (0.85)	32.5 (0.76)	95.9 (0.34)	83.2 (0.76)	1.8 (0.02)	2,188 (42.4)	89 (3.5)	\$16.00 (0.691)	3.1 (0.05)		
Alabama	96.0 (1.59)	98.5 (0.74)	46.7 (4.48)	59.9 (3.98)	29.6 (3.44)	97.2 (1.38)	95.4 (1.47)	1.6 (0.05)	2,114 (117.4)	48 (4.0)	7.31 (0.630)	2.4 (0.13)		
Alaska	63.1 (5.91)	58.0 (6.01)	50.6 (5.32)	48.2 (5.49)	10.1 (1.32)	79.7 (6.31)	69.9 (6.51)	1.2 (0.11)	5,077 (351.4)	190 (29.7)	25.19 (3.742)	5.9 (0.66)		
Arizona	77.5 (5.11)	78.5 (4.74)	33.0 (4.44)	51.4 (3.89)	35.2 (3.22)	88.7 (3.97)	78.8 (3.46)	1.5 (0.09)	1,988 (97.3)	57 (7.8)	9.60 (1.505)	2.7 (0.15)		
Arkansas	97.4 (1.15)	97.4 (1.15)	29.5 (4.73)	48.1 (5.16)	30.6 (4.85)	100.0 (4.11)	94.2 (2.46)	1.8 (0.10)	1,880 (102.6)	96 (9.5)	16.00 (2.611)	2.7 (0.15)		
California	78.5 (3.00)	82.5 (2.27)	20.8 (2.96)	40.7 (4.08)	13.1 (2.55)	93.6 (1.77)	58.9 (4.36)	1.5 (0.05)	2,065 (161.6)	75 (13.4)	10.25 (2.611)	2.2 (0.17)		
Colorado	93.2 (3.07)	88.9 (3.73)	52.7 (4.25)	64.5 (4.58)	34.7 (4.91)	98.2 (0.90)	91.1 (2.64)	1.8 (0.10)	2,101 (137.0)	89 (8.4)	11.23 (1.648)	4.3 (0.30)		
Connecticut	84.5 (4.76)	84.1 (4.79)	46.5 (7.41)	61.1 (6.05)	21.5 (4.98)	96.9 (2.11)	86.6 (3.83)	2.0 (0.08)	2,405 (105.1)	111 (29.0)	17.01 (1.330)	4.8 (0.46)		
Delaware	95.1 (1.69)	97.1 (1.57)	41.6 (5.58)	48.6 (5.83)	24.4 (5.13)	98.2 (1.45)	81.4 (4.88)	1.2 (0.07)	2,835 (752.6)	61 (6.0)	9.41 (0.690)	3.0 (0.25)		
District of Columbia	93.9 (2.05)	91.4 (2.67)	40.5 (4.01)	70.2 (4.51)	73.9 (3.17)	97.4 (0.94)	89.6 (2.88)	1.6 (0.05)	1,904 (114.0)	68 (5.9)	10.98 (1.115)	2.6 (0.11)		
Florida	96.3 (1.26)	98.2 (0.78)	51.2 (4.92)	78.7 (3.79)	73.1 (4.13)	99.3 (0.37)	97.6 (1.38)	2.0 (0.06)	1,909 (81.2)	85 (7.8)	13.06 (0.806)	2.3 (0.16)		
Georgia	75.3 (5.06)	85.6 (3.70)	9.9 (2.95)	22.1 (4.21)	24.5 (4.30)	97.4 (1.81)	81.5 (6.08)	1.1 (0.12)	2,378 (179.4)	64 (6.9)	8.45 (0.954)	3.0 (0.22)		
Hawaii	80.3 (3.31)	81.6 (3.25)	49.2 (4.94)	48.1 (4.94)	15.2 (2.39)	97.9 (1.51)	79.9 (6.08)	2.1 (0.21)	2,453 (206.1)	110 (17.5)	20.31 (3.342)	3.6 (0.27)		
Illinois	88.7 (3.52)	88.9 (4.46)	33.2 (4.58)	50.2 (5.73)	31.7 (2.39)	96.9 (1.75)	89.6 (4.25)	2.0 (0.09)	2,486 (142.5)	84 (8.4)	14.54 (1.057)	2.9 (0.27)		
Indiana	94.5 (2.53)	95.8 (1.94)	59.5 (4.38)	66.3 (4.73)	26.5 (5.18)	98.0 (1.26)	86.4 (3.45)	2.3 (0.09)	2,603 (143.2)	101 (9.8)	14.44 (1.345)	5.8 (0.59)		
Iowa	92.2 (4.50)	89.2 (4.50)	58.0 (4.86)	58.2 (5.34)	28.3 (4.63)	93.9 (3.36)	97.7 (1.27)	2.0 (0.09)	3,564 (259.0)	101 (4.2)	22.42 (5.432)	4.2 (0.43)		
Kansas	91.0 (2.31)	93.0 (2.16)	34.2 (4.76)	51.3 (4.59)	56.3 (4.89)	95.0 (2.02)	86.6 (3.27)	1.5 (0.08)	2,026 (91.2)	96 (8.4)	17.68 (1.388)	3.2 (0.14)		
Kentucky	83.9 (4.21)	86.9 (3.53)	48.4 (5.33)	66.8 (5.40)	31.5 (5.98)	98.1 (1.48)	85.9 (4.22)	1.4 (0.11)	1,951 (119.4)	66 (7.2)	17.58 (4.543)	3.5 (0.31)		
Louisiana	85.6 (4.05)	88.6 (3.44)	48.1 (4.85)	53.1 (4.18)	11.3 (3.20)	84.7 (3.91)	75.8 (4.94)	1.7 (0.10)	3,393 (283.8)	109 (9.9)	22.60 (1.615)	2.6 (0.22)		
Maine	68.1 (4.03)	70.9 (4.42)	33.6 (4.95)	42.6 (5.18)	20.0 (4.09)	96.8 (1.82)	84.5 (3.77)	1.3 (0.10)	1,664 (121.0)	61 (7.5)	13.79 (2.749)	3.4 (0.26)		
Maryland	83.6 (2.79)	87.1 (2.74)	39.9 (3.62)	51.3 (3.63)	45.9 (3.56)	98.3 (0.77)	80.8 (3.40)	1.7 (0.07)	2,065 (117.9)	58 (5.1)	10.13 (1.086)	4.5 (0.30)		
Massachusetts	91.5 (2.23)	92.1 (2.41)	39.8 (3.67)	57.6 (4.04)	34.4 (3.13)	94.4 (1.86)	86.3 (2.82)	2.2 (0.07)	2,760 (139.9)	105 (24.4)	16.40 (2.140)	5.4 (0.35)		
Minnesota	71.9 (5.72)	86.5 (3.53)	22.7 (3.97)	46.3 (5.13)	26.8 (3.50)	97.0 (1.86)	89.5 (3.43)	1.5 (0.08)	1,862 (110.5)	106 (13.0)	13.03 (1.871)	1.9 (0.15)		
Mississippi	93.8 (1.87)	97.3 (1.37)	34.8 (3.06)	44.1 (3.32)	19.8 (2.78)	98.2 (1.40)	89.2 (2.91)	1.9 (0.09)	2,624 (93.4)	106 (6.2)	21.23 (0.896)	4.4 (0.20)		
Missouri	77.6 (6.74)	87.9 (4.59)	34.8 (4.16)	50.6 (4.32)	17.1 (4.36)	96.2 (2.31)	93.3 (2.52)	1.8 (0.09)	3,570 (325.3)	118 (9.4)	21.51 (2.129)	6.1 (0.73)		
Montana	90.0 (2.94)	93.6 (2.83)	71.8 (4.06)	71.8 (4.32)	33.6 (4.96)	95.0 (2.41)	92.5 (2.55)	2.1 (0.11)	3,629 (453.0)	137 (18.6)	21.64 (1.246)	5.8 (0.44)		
Nebraska	97.8 (1.08)	98.3 (0.96)	28.6 (4.31)	41.2 (4.77)	34.4 (3.34)	97.4 (1.78)	65.2 (2.31)	1.6 (0.07)	1,674 (93.0)	74 (5.3)	10.23 (0.490)	1.9 (0.13)		
Nevada	91.3 (4.46)	94.4 (2.05)	58.4 (7.08)	66.7 (6.26)	7.9 (3.66)	100.0 (1.1)	96.1 (2.84)	1.8 (0.12)	2,134 (124.6)	81 (5.5)	21.78 (1.383)	3.7 (0.31)		
New Hampshire	85.7 (3.03)	86.5 (2.85)	46.5 (4.19)	45.4 (4.10)	20.7 (3.29)	96.0 (2.08)	79.9 (3.22)	1.4 (0.06)	2,172 (121.3)	68 (8.2)	15.47 (1.072)	3.1 (0.19)		
New Jersey	87.3 (10.18)	86.3 (10.49)	36.4 (8.56)	65.2 (5.93)	37.6 (7.31)	95.8 (2.70)	83.7 (6.05)	1.8 (0.24)	3,057 (631.5)	95 (16.1)	19.25 (1.274)	2.5 (0.21)		
New Mexico	94.2 (2.24)	93.8 (2.33)	38.3 (3.90)	45.8 (4.46)	21.2 (3.23)	98.7 (0.98)	81.3 (2.94)	2.0 (0.06)	1,898 (97.1)	101 (7.8)	15.85 (1.164)	3.5 (0.26)		
North Carolina	95.9 (2.17)	95.5 (1.67)	45.1 (5.00)	52.7 (4.42)	55.4 (3.83)	98.5 (1.01)	93.6 (2.74)	1.6 (0.06)	1,940 (97.3)	88 (10.1)	15.85 (1.164)	3.5 (0.26)		
North Dakota	77.6 (3.93)	80.5 (3.66)	45.1 (5.00)	52.7 (4.42)	20.1 (3.23)	96.6 (1.43)	75.6 (3.99)	2.0 (0.09)	3,728 (230.1)	172 (16.8)	24.28 (1.378)	4.8 (0.61)		
Ohio	91.1 (2.26)	94.1 (2.23)	45.5 (3.69)	48.5 (3.52)	42.0 (4.60)	94.4 (1.88)	81.5 (3.43)	1.8 (0.07)	1,889 (75.4)	64 (4.0)	9.06 (0.502)	3.3 (0.20)		
Oklahoma	84.1 (4.75)	86.4 (4.26)	42.3 (5.72)	46.2 (5.42)	26.7 (5.71)	94.1 (2.45)	87.7 (3.89)	1.9 (0.10)	2,676 (229.2)	133 (33.8)	15.91 (2.051)	3.0 (0.22)		
Oregon	90.0 (3.18)	93.3 (1.71)	35.3 (5.04)	50.4 (5.10)	28.7 (5.09)	97.5 (1.54)	74.4 (5.11)	1.7 (0.10)	2,569 (116.8)	77 (10.6)	11.28 (1.628)	4.0 (0.42)		
Pennsylvania	89.4 (3.12)	91.0 (2.86)	39.5 (4.85)	46.3 (4.96)	19.9 (3.71)	92.1 (3.19)	75.7 (4.03)	1.8 (0.08)	2,302 (181.0)	81 (10.1)	16.68 (1.792)	3.3 (0.22)		
Rhode Island	72.9 (5.12)	76.7 (4.20)	26.0 (4.20)	22.9 (5.38)	5.1 (1.1)	94.3 (3.60)	72.4 (7.05)	1.7 (0.11)	1,993 (110.8)	62 (9.1)	9.22 (0.978)	3.3 (0.40)		
South Carolina	95.2 (2.02)	97.2 (1.55)	49.1 (4.63)	79.0 (3.80)	85.0 (3.67)	100.0 (1.1)	96.1 (1.89)	1.8 (0.07)	2,246 (401.6)	79 (5.9)	15.47 (1.105)	3.0 (0.24)		
South Dakota	75.1 (4.80)	80.3 (6.65)	48.0 (5.49)	51.9 (4.80)	21.6 (4.22)	94.2 (5.02)	77.5 (3.53)	1.7 (0.11)	3,370 (329.1)	81 (9.3)	22.94 (1.947)	3.5 (0.45)		
Tennessee	92.3 (2.75)	96.8 (1.90)	46.3 (5.01)	57.9 (4.83)	28.0 (3.68)	98.1 (1.23)	90.2 (3.57)	1.7 (0.08)	1,756 (60.8)	81 (9.3)	11.96 (1.448)	2.5 (0.21)		
Texas	93.2 (1.98)	96.8 (1.28)	42.1 (5.07)	59.2 (3.99)	32.9 (3.57)	96.9 (1.41)	207.1 (5.97)	1.8 (0.06)	2,261 (250.8)	113 (23.0)	23.54 (4.438)	2.3 (0.10)		
Utah	86.1 (5.81)	85.8 (6.20)	28.0 (3.07)	34.2 (5.33)	44.5 (5.72)	84.8 (5.15)	84.8 (5.98)	1.7 (0.13)	1,652 (90.6)	85 (12.2)	10.03 (0.862)	2.1 (0.18)		
Vermont	84.5 (4.69)	80.6 (4.24)	58.5 (5.72)	64.5 (4.95)	11.2 (2.48)	93.1 (2.97)	80.2 (4.12)	1.8 (0.09)	4,010 (145.6)	155 (9.1)	32.89 (1.796)	4.8 (0.48)		
Virginia	95.7 (2.26)	97.3 (1.38)	60.8 (3.91)	74.7 (4.14)	49.5 (4.90)	96.8 (1.33)	90.1 (3.92)	1.9 (0.09)	2,018 (78.9)	122 (24.9)	18.86 (3.017)	3.1 (0.50)		
Washington	92.2 (2.67)	93.6 (2.49)	42.0 (4.20)	47.9 (4.04)	28.1 (4.08)	96.3 (2.48)	84.1 (5.32)	1.9 (0.11)	2,325 (107.8)	82 (9.4)	9.46 (0.680)	3.9 (0.27)		
West Virginia	69.0 (4.92)	74.9 (5.24)	32.1 (4.40)	47.5 (5.04)	22.0 (2.80)	92.8 (3.28)	68.6 (5.32)	1.0 (0.07)	1,923 (109.9)	110 (32.3)	15.04 (2.674)	4.5 (0.80)		
Wisconsin	96.0 (2.31)	97.9 (1.07)	50.4 (4.28)	63.0 (4.58)	27.2 (3.97)	98.6 (1.35)	95.7 (2.36)	2.4 (0.09)	3,125 (149.7)	159 (8.7)	37.93 (2.217)	5.2 (0.41)		
Wyoming	95.5 (4.10)	95.5 (4.10)	56.8 (5.80)	51.1 (4.82)	19.3 (5.06)	98.7 (0.80)	81.2 (5.71)	1.8 (0.10)	3,714 (330.4)	211 (33.4)	32.02 (5.222)	4.8 (0.67)		

¹Not applicable.

Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 percent and 50 percent.

*Reporting standards not met. Either the response rate is under 50 percent or there are too few cases for a reliable estimate.

²Centralized video distribution equipment with a scheduling and control server that telecasts video to classrooms.³Includes professional and nonprofessional staff.

*Books held, books acquired, and expenditures are from the prior school year, while enrollment counts are from the current school year.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS).

"Public School Library Media Center Questionnaire," 2011–12. (This table was prepared December 2013.)

Table 701.40. Collections, staff, and operating expenditures of degree-granting postsecondary institution libraries: Selected years, 1981–82 through 2011–12

	1981–82	1987–88	1991–92	1997–98	2001–02	2005–06	2007–08	2009–10	2011–12			
									Total	Public	Private nonprofit	Private for-profit
1	2	3	4	5	6	7	8	9	10	11	12	13
Collections, staff, and operating expenditures												
Number of libraries	3,104	3,438	3,274	3,658	3,568	3,617	3,827	3,689	3,793	1,560	1,461	772
Percentage of institutions with libraries	—	—	—	90.0	85.0	84.6	87.9	82.1	80.6	94.6	88.4	55.0
Number of circulation transactions (in thousands)...	—	—	—	216,067	189,248	187,236	178,766	176,736	154,409	99,897	51,930	2,582
Number of circulation transactions per full-time equivalent (FTE) student	—	—	—	20	16	14	13	11	10	9	16	2
Enrollment (in thousands)												
Total enrollment ¹	12,372	12,767	14,359	14,502	15,928	17,487	18,248	20,428	20,994	15,110	3,927	1,957
Full-time-equivalent (FTE) enrollment ¹	9,015	9,230	10,361	10,615	11,766	13,201	13,783	15,496	15,886	10,949	3,321	1,616
Collections (in thousands)												
Number of volumes at end of year	567,826	718,504	749,429	878,906	954,030	1,015,658	1,052,531	1,076,027	1,099,951	669,521	424,671	5,760
Number of volumes added during year	19,507	21,907	20,982	24,551	24,574	22,241	23,990	27,164	27,605	17,134	9,984	488
Number of serial subscriptions at end of year ²	4,890	6,416	6,966	10,908	9,855	16,361	25,342	25,041	—	—	—	—
Microform units at end of year	—	—	—	1,062,082	1,143,678	1,166,295	1,157,365	1,124,941	1,044,521	705,525	337,405	1,591
E-books at end of year	—	—	—	—	10,318	64,366	102,502	158,652	252,599	136,181	102,413	14,006
Number of volumes per FTE student	63	78	72	83	81	77	76	69	69	61	128	4
Full-time-equivalent (FTE) library staff												
Total staff in regular positions ³	58,476	67,251	67,166	68,337	69,526	69,615	69,328	66,562	65,242	39,776	23,770	1,696
Librarians and professional staff	23,816	25,115	26,341	30,041	32,053	33,265	34,520	34,147	34,423	19,601	13,382	1,440
Other paid staff	34,660	40,733	40,421	38,026	37,473	36,350	34,808	32,415	30,819	20,175	10,388	256
Contributed services	—	1,403	404	270	—	—	—	—	—	—	—	—
Student assistants	—	33,821	29,075	28,373	25,305	23,976	24,110	22,382	20,509	11,288	8,498	724
FTE student enrollment per FTE staff member	154	137	154	155	169	190	199	233	243	275	140	953
Library operating expenditures⁴												
Total operating expenditures (in thousands of current dollars)	\$1,943,769	\$2,770,075	\$3,648,654	\$4,592,657	\$5,416,716	\$6,234,192	\$6,785,542	\$6,829,108	\$7,008,114	\$4,077,793	\$2,803,864	\$126,457
Salaries and wages	914,379 ⁵	1,451,551	1,889,368	2,314,380	2,753,404	3,102,561	3,342,082	3,401,649	3,443,831	2,060,066	1,308,607	75,158
Student hourly wages	100,847	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)
Fringe benefits	167,515	—	—	—	—	—	—	—	—	—	—	—
Furniture/equipment	—	—	—	57,013	—	—	—	—	—	—	—	—
Computer hardware/software	—	—	—	164,379	155,791	153,002	158,698	142,652	143,660	90,583	51,050	2,028
Bibliographic utilities/networks/consortia	—	—	—	89,618	92,242	106,268	113,427	117,838	123,650	71,925	50,694	1,031
Information resources	591,550	925,425	1,240,419	1,643,914	1,990,989	2,375,485	2,663,082	2,680,298	2,790,039	1,572,279	1,172,378	45,383
Books and serial backfiles—paper	—	—	—	514,048	563,007	572,228	611,192	515,942	503,851	248,460	244,454	10,938
Books and serial backfiles—electronic	—	—	—	28,061	44,792	93,778	133,586	152,359	180,570	100,553	74,724	5,292
Current serials—paper	—	—	—	849,399	926,105	830,137	699,906	536,357	487,265	272,219	207,707	7,339
Current serials—electronic	—	—	—	125,470	297,657	691,585	1,004,393	1,249,726	1,436,671	856,062	562,111	18,498
Audiovisual materials	—	—	23,879	30,623	37,041	39,029	43,849	55,659	37,022	19,486	15,609	1,926
Document delivery/interlibrary loan	—	—	—	19,309	22,913	26,513	30,496	33,679	32,490	20,069	11,768	652
Preservation	30,351	34,144	43,126	42,919	46,499	41,102	41,591	31,212	26,838	14,382	12,392	63
Other collection expenditures	561,199	891,281	1,173,414	34,086	52,976	81,113	98,069	105,364	85,334	41,047	43,612	675
Other library operating expenditures	169,478	393,099	518,867	323,354	424,290	496,877	508,253	486,672	506,934	282,941	221,136	2,857
Operating expenditures per full-time-equivalent (FTE) student												
In current dollars	216	300	352	433	460	472	492	441	441	372	844	78
In constant 2014–15 dollars ⁷	542	613	603	633	611	562	550	481	459	387	878	81
Information resource expenditures per FTE student												
In current dollars	66	100	120	155	169	180	193	173	176	144	353	28
In constant 2014–15 dollars ⁷	165	205	205	227	225	214	216	189	183	149	367	29
Operating expenditures (percentage distribution) ..	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Salaries and wages	47.0	52.4	51.8	50.4	50.8	49.8	49.3	49.8	49.1	50.5	46.7	59.4
Student hourly wages	5.2	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)
Fringe benefits	8.6	—	—	—	—	—	—	—	—	—	—	—
Preservation	1.6	1.2	1.2	0.9	0.9	0.7	0.6	0.5	0.4	0.4	0.4	0.1
Information resources	28.9	32.2	32.8	34.9	35.9	37.4	38.6	38.8	39.4	38.2	41.4	35.8
Other ⁸	8.7	14.2	14.2	13.8	12.4	12.1	11.5	10.9	11.0	10.9	11.5	4.7
Library operating expenditures as a percent of total institutional expenditures for educational and general purposes	3.5	3.2	3.0	—	—	—	—	—	—	—	—	—

—Not available.

¹Fall enrollment for the academic year specified.²For 1997–98 and later years, includes microform and electronic serials.³Excludes student assistants.⁴Excludes capital outlay.⁵Includes salary equivalents of contributed services staff.⁶Included under salaries and wages.⁷Constant dollars based on the Consumer Price Index, prepared by the Bureau of Labor Statistics, U.S. Department of Labor, adjusted to a school-year basis.⁸Includes furniture/equipment, computer hardware/software, and bibliographic utilities/networks/consortia as well as expenditures classified as “other library operating expenditures.”

NOTE: Data through 1995 are for institutions of higher education, while later data are for degree-granting institutions. Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. The degree-granting classification is very similar to the earlier higher education classification, but it includes more 2-year colleges and excludes a few higher education institutions that did not grant degrees. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Library Statistics of Colleges and Universities*, 1981–82; Integrated Postsecondary Education Data System (IPEDS), “Academic Libraries Survey” (IPEDS-L:88–98), “Fall Enrollment Survey” (IPEDS-EF:87–98), and IPEDS Spring 2002 through Spring 2012, Enrollment component; Academic Libraries Survey (ALS), 2000 through 2012. (This table was prepared May 2016.)

Table 701.50. Collections, staff, operating expenditures, public service hours, and reference services of the 60 largest college and university libraries: Fiscal year 2012

Institution	Rank order, by number of volumes	Number of volumes at end of year (in thousands)	Number of e- books at end of year	Full-time- equivalent staff		Operating expenditures (in thousands of current dollars)		Public service hours per typical week	Gate count per typical week ¹	Annual reference information services to individuals ²
				Total	Librarians	Total	Salaries and wages			
1	2	3	4	5	6	7	8	9	10	11
Harvard University (MA).....	1	17,225	402,473	1,073	400	\$134,533	\$83,834	168	27,194 ³	187,903
Yale University (CT).....	2	13,504	1,090,187	600	163	81,221	35,235	111	27,194 ³	31,783
University of Illinois at Urbana-Champaign.....	3	12,937	645,398	437	77	43,703	20,744	152	93,818	110,973
University of California, Berkeley.....	4	11,537	1,097,969	434	74	47,325	24,022	77	39,081 ³	70,986
University of Michigan, Ann Arbor.....	5	11,458	1,926,938	690	186	63,828	32,553	168	114,557	211,469
University of Chicago (IL).....	6	11,397	1,251,085	309	68	36,112	13,450	148	28,732	16,610
Columbia University in the City of New York.....	7	11,291	1,329,421	526	162	57,422	26,244	107	84,930	58,489
University of Texas at Austin.....	8	10,185	752,892	489	104	43,968	20,476	120	101,797	119,058
University of California, Los Angeles.....	9	9,981	1,288,821	527	133	50,171	27,406	96	81,905	113,725
Indiana University, Bloomington.....	10	9,276	1,363,894	395	90	33,371	15,259	101	64,700	138,542
Stanford University (CA).....	11	9,025	841,538	653	153	69,922	31,704	105	20,491 ³	105,636
University of Wisconsin, Madison.....	12	7,841	656,536	533	202	38,018	18,778	148	103,845	650
Tarrant County College District (TX).....	13	7,828	83,036	73	24	3,878	2,723	84	26,583	—
Cornell University (NY).....	14	7,684	903,397	468	110	45,471	21,917	145	73,193	62,429
Princeton University (NJ).....	15	7,486	322,690	382	87	50,222	20,476	120	8,508	19,018
University of Washington, Seattle Campus.....	16	7,375	460,477	385	122	36,649	17,592	135	135,000	56,062
University of Minnesota, Twin Cities.....	17	6,918	484,151	355	87	39,526	17,992	107	45,000	46,021
Michigan State University.....	18	6,702	2,715,914	236	70	27,496	10,389	140	37,453	50,633
University of Pittsburgh, Main Campus (PA).....	19	6,663	988,230	319	118	31,800	11,881	118	39,081 ³	80,695
Duke University (NC).....	20	6,540	875,488	321	114	41,043	17,127	149	95,437	80,518
University of Colorado at Boulder.....	21	6,510	675,723	232	62	24,263	10,114	128	66,545	57,345
University of North Carolina at Chapel Hill.....	22	6,437	996,453	409	130	38,135	18,921	146	90,160	84,345
University of Pennsylvania.....	23	6,108	1,100,111	416	137	41,535	19,601	116	31,779	6,500
Ohio State University, Main Campus.....	24	6,050	526,075	449	75	43,185	17,349	168	128,852	27,876
University of Arizona.....	25	6,030	1,184,441	194	51	23,350	8,410	142	38,585	17,247
University of Florida.....	26	5,611	815,537	301	90	28,657	13,434	138	53,235	44,945
Rutgers University, New Brunswick (NJ).....	27	5,478	595,141	272	56	25,958	14,493	115	60,618	25,656
Pennsylvania State University, Main Campus.....	28	5,351	316,913	539	143	50,972	25,757	148	139,775	85,211
University of Iowa.....	29	5,310	772,023	221	66	24,728	9,883	116	34,623	52,416
University of Virginia, Main Campus.....	30	5,247	460,840	344	97	33,796	16,775	149	76,921	76,853
University of California, Davis.....	31	5,204	582,966	185	54	18,506	8,783	102	34,482	78,595
New York University.....	32	5,196	1,101,383	465	68	51,534	21,977	126	65,163	132,850
Northwestern University (IL).....	33	5,140	139,418	362	111	32,029	14,629	122	21,560	23,444
University of Oklahoma, Norman Campus.....	34	5,139	1,168,077	142	34	17,000	4,727	117	26,456	21,693
University of Georgia.....	35	4,947	555,015	283	76	24,101	10,262	109	61,786	42,991
University of Southern California.....	36	4,845	877,824	329	84	66,405	17,589	159	53,335	110,159
Brown University (RI).....	37	4,724	979,523	172	48	21,368	8,709	112	27,890	11,568
Texas A&M University, College Station.....	38	4,531	1,073,198	321	78	35,350	12,945	145	63,798	44,988
Arizona State University.....	39	4,531	403,504	288	73	25,459	9,795	149	39,081 ³	42,726
University of South Carolina, Columbia.....	40	4,460	206,886	265	71	21,752	7,785	111	38,470	85,215
Johns Hopkins University (MD).....	41	4,396	985,644	271	29	37,396	13,445	120	34,500	28,667
University of Cincinnati, Main Campus (OH).....	42	4,336	1,243,527	188	44	21,019	8,588	106	33,229	119,451
Tulane University of Louisiana.....	43	4,320	927,113	172	55	17,813	6,275	118	20,000	21,633
Auburn University (AL).....	44	4,318	821,083	106	29	12,762	4,502	146	28,066	98,072
University of Kansas.....	45	4,285	404,676	249	59	20,282	9,362	140	42,000	91,236
Miami University-Oxford (OH).....	46	4,225	595,932	121	44	9,654	4,533	168	29,976	12,947
University at Buffalo (NY).....	47	4,119	726,127	173	52	19,414	9,663	168	48,000	35,367
University of Maryland, College Park.....	48	4,094	599,198	250	80	29,353	11,724	138	58,461	386,001
University of Utah.....	49	4,068	334,463	322	79	25,130	12,508	142	55,008	165,837
University of Kentucky.....	50	4,023	588,428	238	74	21,285	8,741	140	51,632	29,825
University of Alabama.....	51	3,974	855,794	200	64	19,417	7,290	135	35,307	29,854
Brigham Young University (UT).....	52	3,946	526,051	352	61	26,686	11,771	101	72,336	57,917
Washington University in St. Louis (MO).....	53	3,890	590,299	245	97	32,570	10,042	120	28,000	52,905
Emory University (GA).....	54	3,878	555,313	287	97	37,737	14,269	106	35,117	8,935
Syracuse University (NY).....	55	3,815	942,224	207	59	19,271	8,613	136	34,993	21,395
Louisiana State University and Agricultural & Mechanical College.....	56	3,802	402,264	124	43	15,718	—	99	34,772	28,978
University of Notre Dame (IN).....	57	3,796	466,168	249	77	26,934	10,880	147	26,544	20,612
Vanderbilt University (TN).....	58	3,720	606,267	196	61	23,624	9,181	147	40,417	18,507
North Carolina State University at Raleigh.....	59	3,653	514,635	280	103	27,504	12,395	146	44,540	32,916
Temple University (PA).....	60	3,573	635,008	196	55	23,382	8,263	145	80,009	73,889

—Not available.

¹The number of entries into the library in an average week. A single person can be counted more than once.

²Includes both in-person and virtual services.

³Imputed.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Academic Libraries Survey (ALS), fiscal year 2012. (This table was prepared March 2014.)

Table 701.60. Public libraries, books and serial volumes, and per capita usage of selected library services per year, by state: Fiscal years 2012 and 2013

State	Number of public libraries ¹		Number of books and serial volumes				Per capita ² usage of selected services per year							
			In thousands		Per capita ²		Number of library visits ³		Circulation (number of materials lent)		Reference transactions ⁴		Uses of public-access internet computers	
	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
United States	9,082	9,091	783,882	774,706	2.6	2.5	4.9	4.8	8.0	7.8	0.9	0.9	1.1	1.1
Alabama	219	220	9,671	9,636	2.1	2.1	3.6	3.5	4.5	4.5	0.9	0.9	1.0	1.0
Alaska	77	81	2,354	2,415	3.6	3.7	5.1	5.2	7.1	7.1	0.7	0.6	1.6	1.2
Arizona	91	90	8,399	8,427	1.3	1.3	4.3	4.2	7.8	7.2	0.7	0.9	1.0	1.0
Arkansas	56	57	6,501	6,579	2.5	2.5	4.1	4.0	5.4	5.5	0.8	0.9	0.8	0.8
California	183	183	68,912	67,641	1.8	1.8	4.3	4.4	6.1	6.0	0.6	0.6	0.9	0.9
Colorado	115	114	11,367	10,823	2.2	2.1	6.5	6.4	13.1	12.9	0.9	0.8	1.4	1.4
Connecticut	183	183	14,522	14,464	4.3	4.2	6.9	6.5	9.7	9.2	1.1	1.0	1.5	1.4
Delaware	21	21	1,697	1,642	1.9	1.8	5.1	4.1	7.0	6.7	0.5	0.4	0.9	0.7
District of Columbia	1	1	1,334	1,802	2.1	2.9	4.0	3.9	5.3	5.2	1.5	1.4	1.3	1.4
Florida	79	80	32,481	31,351	1.7	1.6	4.3	4.1	6.6	6.3	1.6	1.4	1.0	1.0
Georgia	61	61	16,637	16,089	1.6	1.5	3.2	2.9	4.2	3.9	0.9	0.9	1.3	1.2
Hawaii	1	1	3,394	3,372	2.5	2.4	3.9	3.7	5.0	4.8	0.5	0.5	0.4	0.5
Idaho	101	102	4,350	4,348	3.1	3.2	6.8	6.6	10.9	11.0	0.9	0.9	1.3	1.5
Illinois	622	623	43,846	43,378	3.7	3.7	6.6	6.5	10.3	10.2	1.2	0.9	1.3	1.2
Indiana	237	237	24,321	24,066	4.0	3.9	6.3	6.1	12.7	12.7	0.9	0.7	1.3	1.3
Iowa	533	534	12,105	11,959	4.1	4.0	6.5	6.2	9.7	9.4	0.6	0.6	1.3	1.2
Kansas	321	319	9,473	9,289	3.8	3.7	6.0	5.7	10.7	10.6	0.8	0.8	1.6	1.6
Kentucky	119	119	8,803	8,878	2.0	2.0	4.5	4.4	6.8	6.9	0.9	0.9	1.1	1.1
Louisiana	68	68	11,934	11,649	2.6	2.5	3.7	3.6	4.5	4.4	0.9	0.9	1.4	1.4
Maine	229	232	5,964	6,121	5.2	5.3	6.2	6.0	8.4	8.2	0.6	0.6	1.2	1.1
Maryland	24	24	13,022	12,927	2.3	2.2	5.1	4.9	10.0	10.0	1.5	1.4	1.2	1.2
Massachusetts	359	368	32,668	32,110	5.0	4.9	6.5	6.5	9.9	9.6	0.8	0.8	1.2	1.2
Michigan	389	388	33,728	33,411	3.4	3.4	5.7	5.4	8.9	8.8	1.0	1.0	1.2	1.2
Minnesota	138	137	15,164	14,779	2.8	2.8	4.9	4.7	10.5	10.1	0.6	0.7	1.2	1.1
Mississippi	51	52	5,734	5,687	1.9	1.9	3.2	3.2	2.8	2.7	0.5	0.5	0.9	0.9
Missouri	147	149	17,220	17,157	3.2	3.1	5.6	5.5	10.0	10.3	0.7	0.7	1.2	1.2
Montana	82	82	2,700	2,630	2.7	2.7	4.7	4.7	7.6	6.3	0.5	0.5	1.6	1.5
Nebraska	265	263	5,949	5,888	4.1	3.9	6.0	5.7	9.4	8.3	0.6	0.5	1.6	1.5
Nevada	22	21	4,441	4,128	1.6	1.5	4.1	3.9	7.4	7.6	0.7	0.6	0.9	0.9
New Hampshire	218	218	5,874	5,864	6.0	6.0	7.7	7.6	11.6	11.0	0.8	0.8	1.2	1.0
New Jersey	297	295	29,075	28,579	3.3	3.3	5.5	5.4	7.1	6.8	0.9	0.9	1.2	1.2
New Mexico	85	83	4,271	4,230	2.6	2.6	4.5	4.4	5.7	5.6	0.6	0.7	1.2	1.3
New York	756	756	70,074	70,955	3.6	3.7	5.9	5.7	8.2	7.9	1.6	1.5	1.2	1.2
North Carolina	77	80	16,519	16,517	1.7	1.7	4.2	3.7	5.7	5.4	1.1	0.9	0.9	0.9
North Dakota	75	75	2,294	2,298	3.7	3.6	3.8	3.5	6.7	6.5	0.6	0.6	1.0	0.9
Ohio	251	251	44,120	43,543	3.8	3.8	7.6	7.5	16.4	16.1	1.8	1.9	1.8	1.9
Oklahoma	118	117	7,441	7,271	2.4	2.3	4.7	4.5	7.1	7.3	1.0	0.9	1.3	1.2
Oregon	128	129	9,926	9,948	2.7	2.7	6.3	6.0	17.2	16.3	0.7	0.7	1.3	1.1
Pennsylvania	456	455	26,694	26,392	2.2	2.1	3.8	3.7	5.6	5.5	0.6	0.6	0.7	0.8
Rhode Island	48	48	4,428	4,364	4.2	4.2	5.8	5.8	7.1	6.8	0.7	0.7	1.4	1.4
South Carolina	42	42	9,343	9,206	2.0	2.0	3.9	4.0	5.6	5.7	0.7	0.7	1.0	1.1
South Dakota	112	111	2,988	2,848	4.0	3.9	5.3	5.4	8.9	9.5	0.6	0.6	1.9	1.8
Tennessee	185	186	11,525	11,640	1.8	1.8	3.4	3.2	4.2	4.1	0.6	0.6	0.9	0.8
Texas	551	544	40,707	39,977	1.7	1.7	3.2	3.1	5.5	5.0	0.6	0.6	0.8	0.8
Utah	72	71	6,964	6,705	2.5	2.4	6.8	6.5	13.5	13.2	1.2	1.2	1.2	1.1
Vermont	163	167	2,881	2,857	4.9	4.8	6.5	6.4	7.8	7.7	0.9	0.9	1.5	1.5
Virginia	91	91	18,332	18,059	2.3	2.3	5.0	4.8	9.7	9.5	0.9	0.9	1.3	1.0
Washington	61	61	14,842	14,271	2.2	2.1	6.4	6.2	12.1	12.4	0.8	0.8	1.6	1.6
West Virginia	97	97	5,140	5,081	2.8	2.7	3.2	3.0	3.6	3.5	0.4	0.3	0.7	0.6
Wisconsin	382	381	19,265	18,997	3.4	3.3	6.3	6.1	11.1	11.0	0.8	0.8	1.2	1.1
Wyoming	23	23	2,488	2,459	4.4	4.3	6.4	6.3	8.8	8.6	0.9	0.9	1.7	1.6

¹"Number of public libraries" refers to the number of administrative entities that are legally established under local or state law to provide public library service to the population of a local jurisdiction. A public library (administrative entity) may have a single outlet that provides direct service to the public, or it may have multiple service outlets. In 2013, a total of 17,214 service outlets were open to the public: 8,905 central libraries, 7,640 branch libraries, and 669 bookmobiles.

²Per capita (or per person) data are based on unduplicated populations of the areas served by public libraries.

³Includes only the number of physical visits (entering the library for any purpose). The survey does not collect data on the number of online visits.

⁴A reference transaction is an information contact that involves the knowledge, use, recommendations, interpretation, or instruction in the use of one or more information sources by a member of the library staff.

NOTE: Data include imputations for nonresponse. Detail may not sum to totals because of rounding.

SOURCE: Institute of Museum and Library Services, Public Libraries Survey, fiscal years 2012 and 2013, retrieved March 16, 2016, from <http://www.imls.gov/research/public-libraries-in-the-united-states-survey.aspx>. (This table was prepared March 2016.)

Table 702.10. Number and percentage of persons age 3 and over using the Internet and percentage distribution by means of internet access from home and main reason for not having high-speed access, by selected age groups and other characteristics of all users and of students: 2013

[Standard errors appear in parentheses]

Selected age group or other characteristic	Total population (in thousands)	Persons using the Internet anywhere		Among internet users, percent using the Internet from home	Percentage distribution of home internet users, by means of access from home		Percentage distribution of persons with no internet access at home or no high-speed access at home, by main reason for not having high-speed access					
		Number (in thousands)	Percent of population		A regular "dial-up" telephone	High speed (i.e., faster than dial-up) ¹	Don't need it, not interested	Too expensive	Can use it somewhere else	Not available in area	No computer or computer inadequate	Other reasons ²
1	2	3	4	5	6	7	8	9	10	11	12	13
Total, all persons age 3 and over.....	299,216 (52.0)	213,708 (725.5)	71.4 (0.24)	91.5 (0.18)	1.0 (0.07)	99.0 (0.07)	41.1 (0.64)	33.6 (0.69)	3.2 (0.27)	2.2 (0.21)	11.9 (0.50)	7.9 (0.36)
Sex												
Male.....	145,897 (37.9)	103,462 (412.0)	70.9 (0.29)	91.8 (0.22)	1.0 (0.08)	99.0 (0.08)	40.8 (0.75)	33.9 (0.76)	3.3 (0.33)	2.4 (0.23)	11.9 (0.54)	7.8 (0.40)
Female.....	153,319 (36.9)	110,246 (441.5)	71.9 (0.29)	91.2 (0.20)	1.1 (0.08)	98.9 (0.08)	41.5 (0.67)	33.4 (0.72)	3.0 (0.26)	2.1 (0.22)	11.9 (0.54)	8.0 (0.41)
Race/ethnicity												
White.....	188,805 (111.9)	142,313 (487.0)	75.4 (0.25)	93.7 (0.17)	1.1 (0.08)	98.9 (0.08)	47.9 (0.84)	25.6 (0.77)	2.8 (0.26)	3.2 (0.34)	11.3 (0.60)	9.2 (0.49)
Black.....	35,918 (75.0)	22,996 (273.2)	64.0 (0.74)	83.8 (0.82)	1.2 (0.23)	98.8 (0.23)	35.9 (1.54)	40.5 (1.57)	3.1 (0.51)	0.8 (0.27)	12.8 (1.08)	6.9 (0.82)
Hispanic.....	50,425 (34.5)	30,771 (340.8)	61.0 (0.67)	85.8 (0.58)	0.8 (0.19)	99.2 (0.19)	33.1 (1.20)	43.6 (1.48)	3.3 (0.68)	1.3 (0.42)	12.7 (1.09)	6.0 (0.70)
Other ³	24,068 (176.2)	17,627 (219.7)	73.2 (0.76)	93.7 (0.48)	0.7 (0.19)	99.3 (0.19)	34.2 (2.24)	39.1 (2.67)	5.4 (1.33)	2.1 (0.86)	10.7 (1.76)	8.6 (1.31)
Age												
3 and 4.....	8,147 (52.0)	2,773 (92.4)	34.0 (1.14)	91.5 (1.19)	1.3 (0.56)	98.7 (0.56)	24.8 (2.44)	49.4 (2.74)	6.4 (1.41)	3.0 (1.90)	10.8 (1.81)	5.5 (1.04)
5 to 9.....	20,570 (0.0)	10,795 (168.3)	52.5 (0.82)	91.7 (0.62)	0.7 (0.19)	99.3 (0.19)	24.1 (1.63)	50.1 (1.77)	4.1 (0.72)	2.1 (0.49)	12.3 (1.34)	7.4 (1.14)
10 to 15.....	24,743 (0.0)	17,657 (243.7)	71.4 (0.66)	92.2 (0.48)	0.8 (0.17)	99.2 (0.17)	26.0 (1.53)	47.4 (1.76)	3.3 (0.71)	3.7 (0.68)	10.6 (1.11)	9.0 (1.14)
16 to 19.....	16,795 (0.0)	14,205 (108.2)	84.6 (0.64)	91.8 (0.52)	0.9 (0.18)	99.1 (0.18)	28.4 (1.82)	46.2 (2.38)	2.4 (1.1)	3.7 (0.80)	12.3 (1.71)	7.0 (1.25)
20 to 24.....	22,066 (0.0)	18,563 (135.5)	84.1 (0.61)	89.4 (0.54)	0.8 (0.18)	99.2 (0.18)	27.6 (1.82)	44.8 (1.99)	4.8 (0.83)	2.8 (1.05)	12.5 (1.70)	7.4 (1.05)
25 to 29.....	20,877 (0.0)	17,266 (125.9)	82.7 (0.60)	90.3 (0.50)	0.6 (0.15)	99.4 (0.15)	30.0 (1.73)	45.2 (1.94)	5.6 (0.94)	2.0 (0.48)	10.4 (1.29)	6.8 (0.94)
30 to 39.....	39,842 (0.0)	32,998 (178.5)	82.8 (0.45)	91.9 (0.35)	0.7 (0.13)	99.3 (0.13)	27.6 (1.36)	46.3 (1.51)	4.2 (0.74)	2.3 (0.38)	11.9 (0.98)	7.7 (0.73)
40 to 49.....	41,357 (0.0)	33,604 (165.7)	81.3 (0.40)	93.5 (0.30)	0.7 (0.10)	99.3 (0.10)	33.9 (1.41)	39.0 (1.41)	3.7 (0.57)	2.9 (0.54)	12.4 (1.00)	8.1 (0.83)
50 to 59.....	43,244 (78.2)	31,295 (199.9)	72.4 (0.44)	91.7 (0.35)	1.3 (0.15)	98.7 (0.15)	44.1 (1.12)	31.2 (1.25)	2.8 (0.36)	1.9 (0.44)	11.9 (0.79)	7.1 (0.63)
60 to 69.....	32,588 (124.6)	21,651 (177.5)	66.4 (0.52)	91.6 (0.44)	2.0 (0.21)	98.0 (0.21)	50.9 (1.23)	22.5 (1.03)	2.7 (0.39)	1.8 (0.35)	13.3 (0.93)	8.8 (0.75)
70 or older.....	28,987 (84.0)	12,889 (179.9)	44.5 (0.62)	87.6 (0.58)	2.3 (0.30)	97.7 (0.30)	66.8 (1.08)	11.4 (0.78)	1.0 (0.17)	0.7 (0.15)	11.4 (0.68)	8.7 (0.57)
Educational attainment of persons age 25 and over												
Less than high school.....	39,330 (419.3)	21,063 (286.4)	53.6 (0.62)	85.1 (0.56)	1.2 (0.18)	98.8 (0.18)	43.0 (0.98)	33.3 (1.14)	1.5 (0.27)	1.8 (0.25)	13.3 (0.84)	7.1 (0.55)
High school diploma or equivalent.....	72,679 (611.1)	46,166 (493.1)	63.5 (0.43)	87.9 (0.32)	1.5 (0.14)	98.5 (0.14)	45.3 (0.78)	30.5 (0.74)	2.3 (0.27)	2.0 (0.22)	12.3 (0.57)	7.6 (0.45)
Some college.....	46,159 (450.2)	38,219 (443.2)	82.8 (0.41)	91.9 (0.31)	1.2 (0.12)	98.8 (0.12)	41.1 (1.29)	33.1 (1.20)	4.5 (0.51)	2.1 (0.40)	10.7 (0.82)	8.6 (0.73)
Associate's degree.....	22,427 (304.9)	18,752 (279.0)	83.6 (0.52)	92.8 (0.40)	1.0 (0.15)	99.0 (0.15)	44.0 (1.86)	28.7 (1.78)	4.8 (0.92)	3.5 (0.70)	11.6 (1.21)	7.4 (0.88)
Bachelor's or higher degree.....	89,248 (549.2)	61,627 (496.6)	89.0 (0.25)	95.4 (0.21)	0.7 (0.09)	99.3 (0.09)	44.8 (1.47)	25.6 (1.28)	6.4 (0.80)	2.8 (0.57)	9.2 (0.92)	11.1 (0.95)
Bachelor's degree.....	45,322 (410.7)	39,977 (364.8)	88.2 (0.32)	95.1 (0.25)	0.8 (0.11)	99.2 (0.11)	44.1 (1.67)	26.9 (1.63)	6.7 (0.86)	2.8 (0.63)	8.6 (1.01)	10.9 (1.05)
Master's or higher degree.....	23,927 (391.2)	21,650 (368.0)	90.5 (0.40)	96.0 (0.31)	0.6 (0.11)	99.4 (0.11)	46.6 (2.32)	22.4 (1.92)	5.7 (1.29)	3.0 (0.85)	10.7 (1.71)	11.7 (1.87)
Family income												
Less than \$10,000.....	20,430 (594.5)	10,937 (377.5)	53.5 (1.04)	75.1 (1.20)	1.8 (0.43)	98.2 (0.43)	32.3 (1.51)	45.1 (1.71)	2.2 (0.47)	1.5 (0.37)	12.1 (1.02)	6.8 (0.88)
\$10,000 to \$19,999.....	31,314 (608.2)	16,419 (468.8)	52.4 (0.81)	81.1 (0.84)	2.1 (0.34)	97.9 (0.34)	42.0 (1.39)	34.9 (1.44)	1.5 (0.35)	1.4 (0.39)	12.3 (0.99)	8.0 (0.75)
\$20,000 to \$29,999.....	33,039 (617.8)	19,913 (466.5)	60.3 (0.80)	85.2 (0.64)	2.1 (0.35)	97.9 (0.35)	43.1 (1.41)	33.8 (1.43)	2.5 (0.45)	1.4 (0.38)	12.5 (1.06)	6.6 (0.76)
\$30,000 to \$39,999.....	32,893 (634.2)	21,155 (445.8)	64.3 (0.68)	86.1 (0.61)	1.2 (0.23)	98.8 (0.23)	42.8 (1.60)	31.7 (1.55)	3.0 (0.64)	1.9 (0.46)	12.3 (1.09)	8.3 (0.93)
\$40,000 to \$49,999.....	24,764 (509.1)	17,766 (422.9)	71.7 (0.75)	92.4 (0.64)	0.8 (0.23)	99.2 (0.23)	44.5 (2.55)	29.4 (2.41)	2.8 (0.75)	2.0 (1.01)	12.6 (1.85)	8.7 (1.53)
\$50,000 to \$74,999.....	56,781 (699.3)	43,490 (577.0)	76.6 (0.47)	94.1 (0.32)	1.2 (0.18)	98.8 (0.18)	40.7 (2.06)	28.4 (1.91)	6.4 (1.01)	4.3 (0.81)	11.5 (1.56)	8.8 (0.99)
\$75,000 to \$99,999.....	36,007 (582.6)	29,429 (479.6)	81.7 (0.52)	96.3 (0.31)	0.6 (0.13)	99.4 (0.13)	44.3 (3.17)	25.9 (2.63)	7.3 (1.90)	7.0 (1.67)	6.7 (1.69)	8.8 (1.93)
\$100,000 or more.....	63,988 (816.4)	54,598 (740.2)	85.3 (0.39)	97.3 (0.20)	0.5 (0.10)	99.5 (0.10)	46.7 (3.37)	20.0 (3.12)	6.5 (1.66)	5.1 (1.69)	10.0 (2.01)	11.8 (2.06)
Total school-age population (all 5 to 15-year-olds).....	45,313 (0.0)	28,452 (271.1)	62.8 (0.60)	92.0 (0.42)	0.8 (0.15)	99.2 (0.15)	25.1 (1.24)	48.7 (1.40)	3.7 (0.61)	2.9 (0.52)	11.4 (1.01)	8.2 (0.94)
Age												
5 to 9 years old.....	20,570 (0.0)	10,795 (168.3)	52.5 (0.82)	91.7 (0.62)	0.7 (0.19)	99.3 (0.19)	24.1 (1.63)	50.1 (1.77)	4.1 (0.72)	2.1 (0.49)	12.3 (1.34)	7.4 (1.14)
10 to 15 years old.....	24,743 (0.0)	17,657 (163.7)	71.4 (0.66)	92.2 (0.48)	0.8 (0.17)	99.2 (0.17)	26.0 (1.53)	47.4 (1.76)	3.3 (0.71)	3.7 (0.68)	10.6 (1.11)	9.0 (1.14)
Sex												
Male school-age population.....	23,146 (0.0)	14,519 (169.9)	62.7 (0.73)	92.2 (0.56)	0.8 (0.19)	99.2 (0.19)	24.9 (1.52)	48.3 (1.85)	4.2 (0.93)	2.9 (0.52)	11.6 (1.24)	8.1 (1.12)
5 to 9 years old.....	10,508 (0.0)	5,416 (115.8)	51.5 (1.10)	91.6 (0.88)	0.7 (0.25)	99.3 (0.25)	23.4 (2.23)	49.7 (2.17)	4.6 (1.05)	1.9 (0.54)	13.1 (1.70)	7.3 (1.40)
10 to 15 years old.....	12,638 (0.0)	9,103 (102.3)	72.0 (0.81)	92.5 (0.62)	0.9 (0.24)	99.1 (0.24)	26.3 (1.97)	47.0 (2.52)	3.8 (1.04)	3.9 (0.78)	10.1 (1.45)	8.8 (1.42)
Female school-age population.....	22,167 (0.0)	13,933 (166.1)	62.9 (0.75)	91.8 (0.52)	0.7 (0.18)	99.3 (0.18)	25.2 (1.65)	49.2 (1.67)	3.1 (0.60)	3.0 (0.68)	11.2 (1.15)	8.3 (1.07)
5 to 9 years old.....	10,062 (0.0)	5,379 (102.1)	53.5 (1.01)	91.7 (0.82)	0.7 (0.27)	99.3 (0.27)	24.8 (2.19)	50.5 (2.58)	3.6 (0.93)	2.3 (0.65)	11.4 (1.72)	7.4 (1.53)
10 to 15 years old.....	12,105 (0.0)	8,554 (118.3)	70.7 (0.98)	91.8 (0.65)	0.7 (0.22)	99.3 (0.22)	25.6 (2.28)	47.9 (2.31)	2.7 (0.74)	3.6 (0.95)	11.0 (1.43)	9.2 (1.50)

See notes at end of table.

Table 702.10. Number and percentage of persons age 3 and over using the Internet and percentage distribution by means of internet access from home and main reason for not having high-speed access, by selected age groups and other characteristics of all users and of students: 2013—Continued
[Standard errors appear in parentheses]

Selected age group or other characteristic	Persons using the Internet anywhere				Among internet users, percent using the Internet from home	Percentage distribution of home internet users, by means of access from home		Percentage distribution of persons with no internet access at home or no high-speed access at home, by main reason for not having high-speed access					
	Total population (in thousands)	Percent of population		A regular "dial-up" telephone		High speed (i.e., faster than dial-up) ¹	Don't need it, not interested	Too expensive	Can use it somewhere else	Not available in area	No computer or computer inadequate	Other reasons ²	
		Number (in thousands)	Percent										
1	2	3	4	5	6	7	8	9	10	11	12	13	
Race/ethnicity													
White school-age population.....	24,016 (51.2)	16,262 (189.4)	67.7 (0.77)	95.8 (0.41)	0.8 (0.18)	99.2 (0.18)	27.4 (2.38)	41.2 (2.83)	2.6 (0.73)	5.6 (1.23)	11.0 (1.71)	12.4 (2.06)	
5 to 9 years old.....	10,626 (40.3)	6,119 (117.6)	57.6 (1.10)	95.5 (0.63)	0.9 (0.29)	99.1 (0.29)	27.1 (3.01)	42.9 (3.36)	3.0 (1.02)	3.0 (0.96)	12.2 (2.11)	11.9 (2.45)	
10 to 15 years old.....	13,390 (49.4)	10,143 (129.7)	75.8 (0.90)	96.9 (0.45)	0.7 (0.18)	99.3 (0.18)	27.7 (2.78)	39.5 (3.36)	2.1 (0.69)	8.1 (1.77)	9.8 (2.03)	12.8 (2.39)	
Black school-age population.....	6,221 (55.9)	3,499 (102.5)	56.2 (1.64)	82.6 (1.96)	0.8 (0.41)	99.2 (0.41)	22.1 (2.74)	57.0 (5.31)	3.7 (1.10)	+	10.6 (2.29)	5.8 (1.54)	
5 to 9 years old.....	2,842 (29.9)	1,320 (63.3)	46.4 (2.19)	83.3 (2.72)	+	+	18.5 (3.35)	58.5 (4.10)	5.6 (1.75)	+	11.2 (2.91)	5.5 (1.64)	
10 to 15 years old.....	3,379 (41.8)	2,179 (67.9)	64.5 (1.97)	82.2 (2.11)	+	+	24.8 (3.27)	55.9 (3.88)	2.3 (1.11)	+	10.1 (2.37)	6.1 (1.88)	
Hispanic school-age population.....	10,810 (0.0)	5,944 (141.9)	55.0 (1.31)	86.3 (1.16)	0.9 (0.36)	99.1 (0.36)	25.0 (1.90)	49.0 (2.23)	4.3 (1.12)	2.0 (0.79)	13.0 (1.68)	6.8 (1.33)	
5 to 9 years old.....	5,131 (0.0)	2,307 (90.4)	45.0 (1.76)	85.6 (1.92)	+	+	23.8 (2.46)	50.9 (2.91)	4.2 (1.24)	1.9 (0.78)	13.8 (2.33)	5.3 (1.35)	
10 to 15 years old.....	5,679 (0.0)	3,636 (85.0)	64.0 (1.50)	86.7 (1.19)	1.0 (0.45)	99.0 (0.45)	26.1 (2.58)	47.0 (2.73)	4.3 (1.38)	2.2 (0.95)	12.2 (1.87)	8.2 (1.95)	
Family income													
Less than \$10,000.....	3,465 (168.6)	1,559 (110.8)	45.0 (2.28)	69.6 (3.29)	+	+	17.1 (2.29)	63.9 (3.13)	2.4 (0.82)	2.0 (0.78)	9.0 (1.72)	5.6 (1.69)	
\$10,000 to \$19,999.....	4,983 (202.3)	2,491 (154.8)	50.0 (2.09)	83.9 (1.99)	1.3 (0.65)	98.7 (0.65)	22.6 (2.35)	51.7 (3.28)	1.9 (0.78)	2.2 (0.98)	9.7 (1.94)	11.9 (2.32)	
\$20,000 to \$29,999.....	4,837 (196.3)	2,603 (149.1)	53.8 (1.74)	88.5 (1.40)	1.6 (0.74)	98.4 (0.74)	25.6 (3.06)	47.8 (3.61)	3.9 (1.13)	3.3 (1.29)	14.6 (2.82)	6.5 (1.80)	
\$30,000 to \$39,999.....	4,728 (183.6)	2,667 (125.1)	56.4 (1.78)	85.8 (1.64)	+	+	25.8 (3.39)	45.0 (3.57)	5.7 (1.96)	+	11.4 (2.40)	8.7 (2.45)	
\$40,000 to \$49,999.....	3,627 (147.7)	2,264 (120.1)	62.4 (1.80)	92.9 (1.62)	+	+	35.3 (5.90)	37.6 (5.78)	+	+	16.0 (1.59)	+	
\$50,000 to \$74,999.....	8,279 (221.3)	5,469 (187.8)	66.1 (1.37)	93.9 (1.07)	1.6 (0.53)	98.4 (0.53)	29.8 (4.23)	39.8 (4.58)	5.0 (2.00)	7.9 (2.70)	12.0 (3.53)	5.5 (1.64)	
\$75,000 to \$99,999.....	5,291 (190.7)	3,791 (155.5)	71.7 (1.42)	98.4 (0.48)	+	+	32.9 (7.16)	32.8 (7.66)	8.4 (3.77)	+	+	13.5 (6.39)	
\$100,000 or more.....	10,103 (242.0)	7,609 (215.8)	75.3 (1.10)	97.7 (0.38)	+	+	37.5 (7.71)	26.8 (7.71)	+	+	13.3 (6.43)	13.8 (4.94)	
Total, all 16- to 24-year-old students ⁴	11,784 (223.2)	10,230 (212.0)	86.8 (0.76)	92.9 (0.61)	0.8 (0.25)	99.2 (0.25)	31.0 (3.19)	44.9 (3.07)	3.1 (0.91)	2.4 (0.72)	10.1 (1.82)	8.5 (1.73)	
School level													
High school.....	4,352 (120.6)	3,553 (116.6)	81.6 (1.32)	91.8 (0.99)	0.7 (0.35)	99.3 (0.35)	29.5 (4.07)	50.8 (4.20)	+	+	11.8 (2.71)	5.5 (1.89)	
College.....	7,432 (192.3)	6,677 (182.6)	89.8 (0.78)	93.4 (0.77)	0.9 (0.32)	99.1 (0.32)	32.4 (4.29)	39.7 (4.04)	5.2 (1.62)	+	8.6 (2.27)	11.2 (2.73)	
Sex													
Male.....	5,584 (132.7)	4,793 (132.1)	85.8 (1.11)	91.7 (0.97)	0.7 (0.27)	99.3 (0.27)	35.4 (4.35)	45.6 (3.93)	2.5 (1.01)	2.2 (1.08)	8.7 (2.39)	5.5 (1.91)	
High school.....	2,256 (82.5)	1,838 (80.6)	81.5 (1.75)	91.4 (1.43)	+	+	34.3 (5.74)	52.7 (5.40)	+	+	8.3 (3.11)	+	
College.....	3,329 (118.0)	2,955 (115.4)	88.8 (1.22)	92.0 (1.18)	1.1 (0.43)	98.9 (0.43)	36.5 (5.46)	39.0 (4.93)	4.8 (1.92)	+	9.2 (3.35)	7.3 (2.89)	
Female.....	6,200 (150.3)	5,437 (139.9)	87.7 (0.98)	93.9 (0.70)	1.0 (0.35)	99.0 (0.35)	26.5 (4.08)	44.2 (4.04)	3.6 (1.57)	2.7 (0.90)	11.4 (2.66)	11.5 (2.78)	
High school.....	2,096 (88.0)	1,715 (82.5)	81.8 (1.86)	92.3 (1.34)	1.5 (0.72)	98.5 (0.72)	24.4 (5.35)	48.8 (5.78)	+	+	15.5 (4.35)	7.5 (2.14)	
College.....	4,104 (128.8)	3,722 (121.5)	90.7 (1.00)	94.6 (0.90)	0.7 (0.36)	99.3 (0.36)	28.4 (5.57)	40.3 (5.47)	5.6 (2.71)	+	8.0 (3.09)	15.0 (4.22)	
Race/ethnicity													
White.....	6,531 (154.0)	5,809 (149.8)	89.0 (0.86)	95.2 (0.59)	+	+	33.3 (4.48)	38.5 (4.82)	+	5.5 (1.72)	9.9 (2.82)	10.5 (3.09)	
High school.....	2,245 (85.0)	1,913 (76.6)	85.2 (1.58)	94.0 (1.09)	+	+	37.1 (6.66)	44.9 (6.56)	+	+	7.2 (3.37)	+	
College.....	4,286 (135.8)	3,896 (134.7)	90.9 (0.92)	95.8 (0.71)	+	+	29.9 (6.47)	32.8 (6.46)	+	+	12.3 (4.04)	15.3 (4.89)	
Black.....	1,602 (87.5)	1,313 (80.5)	81.9 (2.16)	90.6 (1.83)	2.4 (1.14)	97.6 (1.14)	21.5 (5.16)	47.4 (6.61)	+	+	12.8 (4.94)	14.4 (5.35)	
High school.....	675 (51.4)	519 (48.9)	76.9 (3.54)	91.0 (2.90)	+	+	15.2 (5.82)	57.4 (6.55)	+	+	16.6 (7.68)	+	
College.....	928 (69.4)	794 (65.0)	85.6 (2.93)	90.4 (2.38)	+	+	28.0 (8.13)	37.0 (8.79)	+	+	10.7 (3.22)	18.2 (8.28)	
Hispanic.....	2,452 (92.4)	2,047 (89.7)	83.5 (2.04)	86.9 (1.71)	+	+	32.3 (5.49)	50.3 (5.87)	+	+	10.7 (3.22)	3.7 (1.70)	
High school.....	1,014 (63.6)	758 (56.9)	74.7 (3.64)	85.6 (2.88)	+	+	30.8 (6.76)	52.2 (7.30)	+	+	14.1 (4.95)	+	
College.....	1,437 (71.9)	1,289 (67.4)	89.7 (1.96)	87.7 (2.12)	+	+	33.8 (6.91)	48.4 (7.86)	+	+	+	+	
Family income													
Less than \$10,000.....	958 (85.2)	767 (84.7)	80.1 (3.18)	81.0 (3.93)	+	+	22.5 (6.64)	50.7 (7.10)	+	+	16.4 (4.92)	7.9 (3.58)	
\$10,000 to \$19,999.....	1,151 (84.9)	906 (71.9)	78.7 (2.59)	84.9 (2.78)	+	+	24.6 (6.52)	53.6 (7.11)	+	+	8.3 (4.42)	9.6 (3.66)	
\$20,000 to \$29,999.....	1,117 (88.8)	968 (78.1)	86.6 (2.37)	89.9 (1.99)	+	+	27.0 (7.44)	55.6 (8.30)	+	+	9.8 (4.57)	+	
\$30,000 to \$39,999.....	1,088 (74.9)	916 (67.4)	84.2 (2.58)	89.1 (2.32)	+	+	38.9 (7.72)	32.2 (7.19)	+	+	11.2 (5.13)	11.5 (5.01)	
\$40,000 to \$49,999.....	922 (69.9)	792 (68.7)	86.0 (2.69)	93.3 (1.81)	+	+	41.8 (9.60)	39.6 (9.84)	+	+	12.5 (5.79)	+	
\$50,000 to \$74,999.....	2,349 (117.4)	2,090 (110.5)	89.0 (1.58)	94.2 (1.34)	+	+	26.7 (9.25)	32.5 (8.41)	11.3 (5.23)	+	+	+	
\$75,000 to \$99,999.....	1,378 (86.3)	1,240 (82.4)	90.0 (2.06)	97.1 (1.12)	+	+	+	+	+	+	+	+	
\$100,000 or more.....	2,822 (129.4)	2,551 (118.0)	90.4 (1.29)	98.4 (0.55)	+	+	+	+	+	+	+	+	

¹Not applicable.
²Includes "Privacy or security concerns" and "Other reason."
³Includes persons of all other races and Two or more races.
⁴Includes only those 16- to 24-year-olds who are enrolled in school.
NOTE: Race categories exclude persons of Hispanic ethnicity. Detail may not sum to totals because of rounding.
SOURCE: U.S. Department of Commerce, Census Bureau, Current Population Survey (CPS), July 2013. (This table was prepared May 2015.)

