

## 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 OECD in the Online Education Database and the annual *Education at a Glance* report, as well as from data collected by UNESCO. Even though their 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 (see the OECD and UNESCO entries in Appendix A: Guide to Sources).

Also presented in this chapter are data from the Trends in International Mathematics and Science Study (TIMSS), carried out under the aegis of IEA and supported by NCES. This survey was formerly known as the Third International Mathematics and Science Study. TIMSS, conducted every 4 years, is an assessment of fourth- and eighth-graders in mathematics and science.

This chapter includes additional information from the Program for International Student Assessment (PISA), an OECD assessment supported by NCES. 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. While PISA focuses 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 (21 percent) in 2008, followed by Israel and Turkey (both at 18 percent) (table 410). OECD countries with small percentages of people in this age group included the Czech Republic, Greece, Italy, Japan, Slovenia, and Spain (all at 9 percent), and Estonia, Germany, Hungary, and Portugal (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 2009, about 1.4 billion students were enrolled in schools around the world (table 408). Of these students, 702 million were in elementary-level programs, 531 million were in secondary programs, and 165 million were in postsecondary programs.

From 2000 to 2009, enrollment changes varied from region to region. Changes in elementary enrollment ranged from increases of 43 percent in Africa and 3 percent in Asia and Oceania to decreases of 12 percent in Europe, 3 percent in Central and South America (including Latin America and the Caribbean), and 2 percent in Northern America (including Bermuda, Canada, and the United States) (table F, table 408, and figure 27). Over the same period, secondary enrollment increased by 50 percent in Africa, 26 percent in Asia, 9 percent in Central and South America, and 8 percent in Northern America, but decreased by 17 percent in Europe and 5 percent in Oceania. At the postsecondary level, enrollments increased in all major areas of the world from 2000 to 2009. Postsecondary enrollment rose by 96 percent in Asia, 72 percent in Central and South America, 56 percent in Africa, 43 percent in Oceania, 42 percent in Northern America, and 29 percent in Europe. These increases are due to both growth in the percentages of people attending postsecondary institutions and population increases.

**Table F. Population and enrollment at different levels in major areas of the world: 2000 and 2009**

[In millions]

Area of the world	Population	Enrollment		
		Elementary	Secondary	Postsecondary
<b>World total</b>				
2000.....	6,094.7	650.9	450.7	99.5
2009.....	6,792.9	701.6	531.2	164.6
<b>Africa</b>				
2000.....	807.0	108.4	37.7	6.3
2009.....	1,003.9	155.4	56.4	9.8
<b>Asia</b>				
2000.....	3,693.6	399.9	259.1	40.8
2009.....	4,095.3	411.2	326.3	80.1
<b>Europe</b>				
2000.....	730.4	41.7	70.2	25.5
2009.....	735.6	36.8	58.2	33.0
<b>Central and South America</b>				
2000.....	519.9	70.2	55.2	11.4
2009.....	583.0	68.2	60.0	19.7
<b>Northern America</b>				
2000.....	313.4	27.4	25.1	14.4
2009.....	340.6	26.8	27.2	20.5
<b>Oceania</b>				
2000.....	30.4	3.1	3.4	1.0
2009.....	34.5	3.2	3.2	1.5

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

In 2008, the reporting OECD country with the highest proportion of 18- to 21-year-olds enrolled in postsecondary education was the Republic of Korea (70 percent), followed by Greece (51 percent), the United States (47 percent), Belgium (42 percent), and Slovenia (41 percent). Also in 2008, the reporting OECD country with the highest proportion of 22- to 25-year-olds enrolled in postsecondary education was Finland (39 percent), followed by Slovenia (38 percent), Denmark and the Republic of Korea (both at 34 percent), and Poland (31 percent) (table 411). The United States' proportion of enrolled 22- to 25-year-olds was 24 percent. Postsecondary enrollment varied among countries due partially to differences in how postsecondary education is defined and the age at which postsecondary education begins. For example, programs classified as postsecondary education in some countries may be classified as long-duration secondary education in other countries.

## Achievement

On the 2007 TIMSS mathematics assessment, U.S. fourth-graders' average score (529) was higher than the average mathematics score of fourth-graders in 23 of the 35 other participating education systems, lower than the average score in 8 education systems, and not measurably different from the average score in the remaining 4 education systems (table 414). (Average scale scores from the TIMSS assessment are based on a range of possible scores from 0 to 1,000.) The education systems that outperformed the United States in fourth-grade mathematics—namely, Chinese Tai-

pei, England, Hong Kong SAR,<sup>1</sup> Japan, Kazakhstan, Latvia, the Russian Federation, and Singapore—were all located in Asia or Europe. In 2007, U.S. eighth-graders' average mathematics score (508) was higher than the average score of eighth-graders in 37 of the 47 other participating education systems, lower than the average score in 5 education systems, and not measurably different from the average score in the remaining 5 education systems (table 415). All of the education systems that outperformed the United States in eighth-grade mathematics were in Asia (Chinese Taipei, Hong Kong SAR, Japan, the Republic of Korea, and Singapore).

On the 2007 TIMSS science assessment, U.S. fourth-graders' average score (539) was higher than the average science score of fourth-graders in 25 of the 35 other participating education systems, lower than the average score in 4 education systems (all of them located in Asia), and not measurably different from the average score in the remaining 6 education systems (table 414). The education systems that outperformed the United States in fourth-grade science were Chinese Taipei, Hong Kong SAR, Japan, and Singapore. In 2007, U.S. eighth-graders' average science score (520) was higher than the average scores of eighth-graders in 35 of the 47 other education systems, lower than the average score in 9 education systems (all located in Asia or Europe), and not measurably different from the average score in the remaining 3 education systems (table 415). The education systems that outperformed the United States in eighth-grade science were Chinese Taipei, the Czech Republic, England, Hungary, Japan, the Republic of Korea, the Russian Federation, Slovenia, and Singapore.

On the 2009 PISA assessment, U.S. 15-year-olds' average score in reading literacy was 500, which was not measurably different from the OECD average of 493 (table 416). (Possible scores on PISA assessments range from 0 to 1,000.) The average reading literacy score in the United States was lower than the average score in 6 of the 33 other OECD countries, higher than the average score in 13 of the other OECD countries, and not measurably different from the average score in 14 of the OECD countries. Reading literacy results were also reported for 31 non-OECD education systems, 3 of which had a higher average score than the United States. In all participating OECD countries and non-OECD education systems, girls outperformed boys in reading. The U.S. gender gap in reading (25 points) was smaller than the OECD average gap (39 points) and smaller than the gaps in 24 of the OECD countries and 21 of the non-OECD education systems.

In mathematics literacy, U.S. 15-year-olds' average score of 487 on the 2009 PISA assessment was lower than the OECD average score of 496. The average mathematics literacy score in the United States was lower than the average score in 17 of the 33 other OECD countries, higher than the average score in 5 of the other OECD countries, and not

<sup>1</sup>Hong Kong is a Special Administrative Region (SAR) of the People's Republic of China.

measurably different from the average score in 11 of the OECD countries. In 6 of the 31 non-OECD education systems, the average mathematics literacy score of 15-year-olds was higher than the average score in the United States. In science literacy, the average score of 15-year-olds in the United States (502) was not measurably different from the OECD average score (501). The U.S. average science literacy score was lower than the average score in 12 of the 33 other OECD countries, higher than the average score in 9 of the other OECD countries, and not measurably different from the average score in 12 of the OECD countries. In 6 of the 31 non-OECD education systems, the average science literacy score of 15-year-olds was higher than the average score in the United States.

## Educational Attainment

In 2009, the percentage of 25- to 64-year-olds who had completed high school varied among reporting OECD countries (table 420). Countries with high percentages included the Czech Republic and the Slovak Republic (both at 91 percent) and Estonia and the United States (both at 89 percent). Countries with relatively low percentages of 25- to 64-year-olds who had completed high school included Portugal (30 percent), Turkey (31 percent), and Mexico (35 percent).

In 2009, OECD countries reporting high percentages of 25- to 64-year-olds with a bachelor's or higher degree included Norway (34 percent), the United States (31 percent), and the Netherlands (30 percent) (table 421). Countries with low percentages of 25- to 64-year-olds who had attained a bachelor's or higher degree included Austria (11 percent) and Slovenia and Turkey (both at 13 percent). The percentage of younger adults (25 to 34 years old) with a bachelor's or higher degree also varied in 2009 (table 421 and figure 28). The OECD country reporting the highest percentage of 25- to 34-year-olds at this level of educational attainment was Norway (45 percent), followed by the Netherlands and the Republic of Korea (both at 38 percent). The lowest percentages were reported by Austria (15 percent) and Turkey (17 percent). In the United States, 32 percent of adults in this age group had a bachelor's or higher degree.

## Degrees

In 27 of the 31 reporting OECD countries, more than half of all bachelor's and higher degrees were awarded to women in 2009 (table 425). However, the proportion of degrees awarded to women varied by field. For example, 29 of the 31 countries reported that more than 70 percent of education degrees at the bachelor's or higher level were awarded to women. In contrast, women received less than 30 percent of the computer science degrees in 29 of the 30 countries reporting data on degrees awarded in this field.

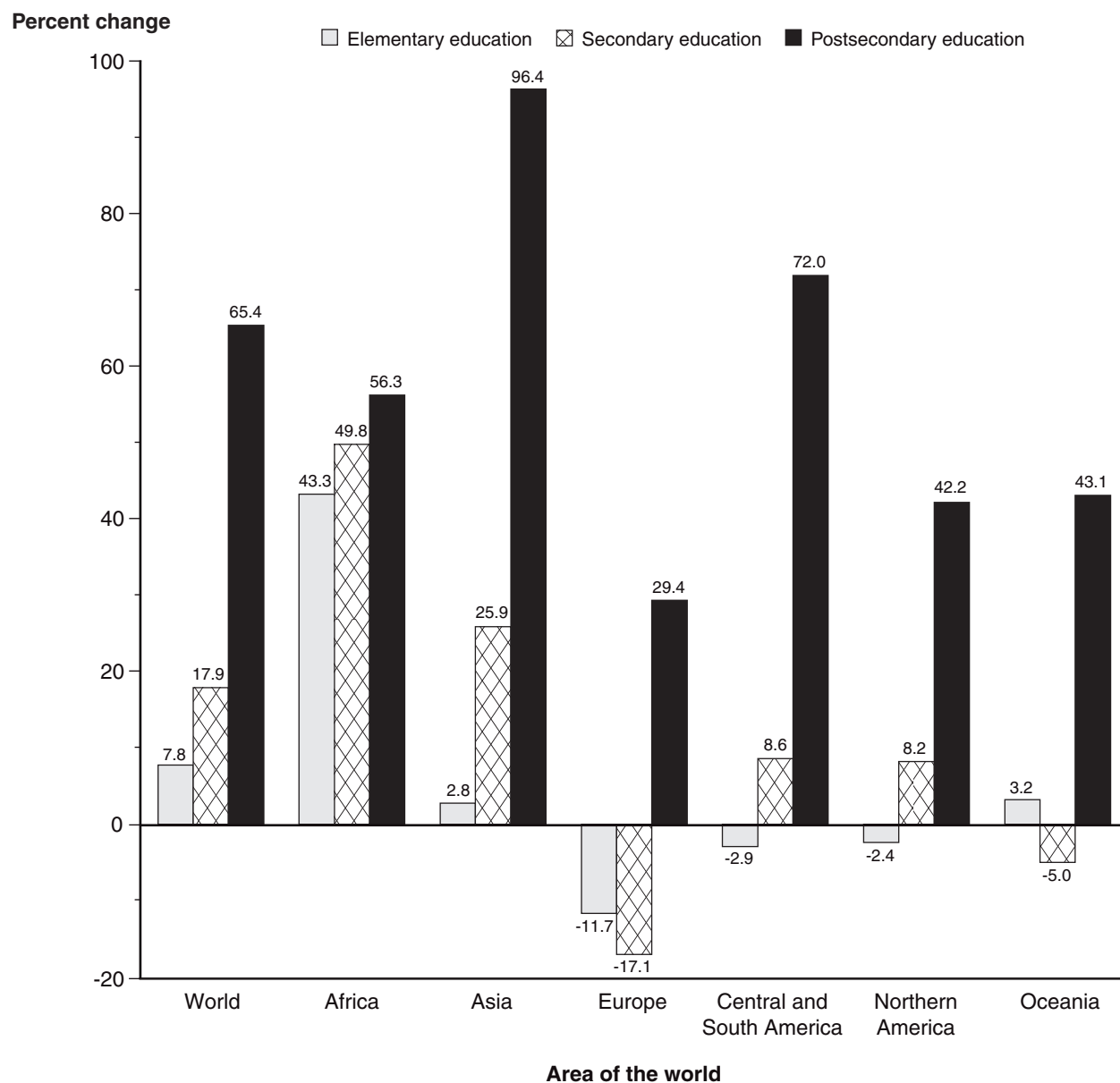
The percentages of bachelor's degrees that were awarded in mathematics and science fields—including natural sci-

ences, mathematics and computer science, and engineering—varied across the 33 reporting OECD countries in 2008 (table 426). Two of the reporting OECD countries awarded more than 30 percent of their bachelor's degrees in mathematics and science fields: the Republic of Korea (35 percent) and Portugal (34 percent). Four of the countries awarded 15 percent or less of their bachelor's degrees in mathematics and science fields: Norway (13 percent), the Netherlands (14 percent), and Iceland and Hungary (15 percent each). In 2008, the United States awarded 16 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 also ranged widely across OECD countries in 2008 (table 427). Six of the reporting OECD countries awarded 30 percent or more of their graduate degrees in mathematics and science fields: Portugal (49 percent), Japan (47 percent), Germany (34 percent), Greece (33 percent), and Austria and Finland (32 percent each). Seven OECD countries awarded 15 percent or less of their graduate degrees in mathematics and science fields: Hungary (8 percent); Iceland, Poland, and Chile (11 percent each); Mexico (12 percent); the United States (13 percent); and the Netherlands (15 percent).

## Finances

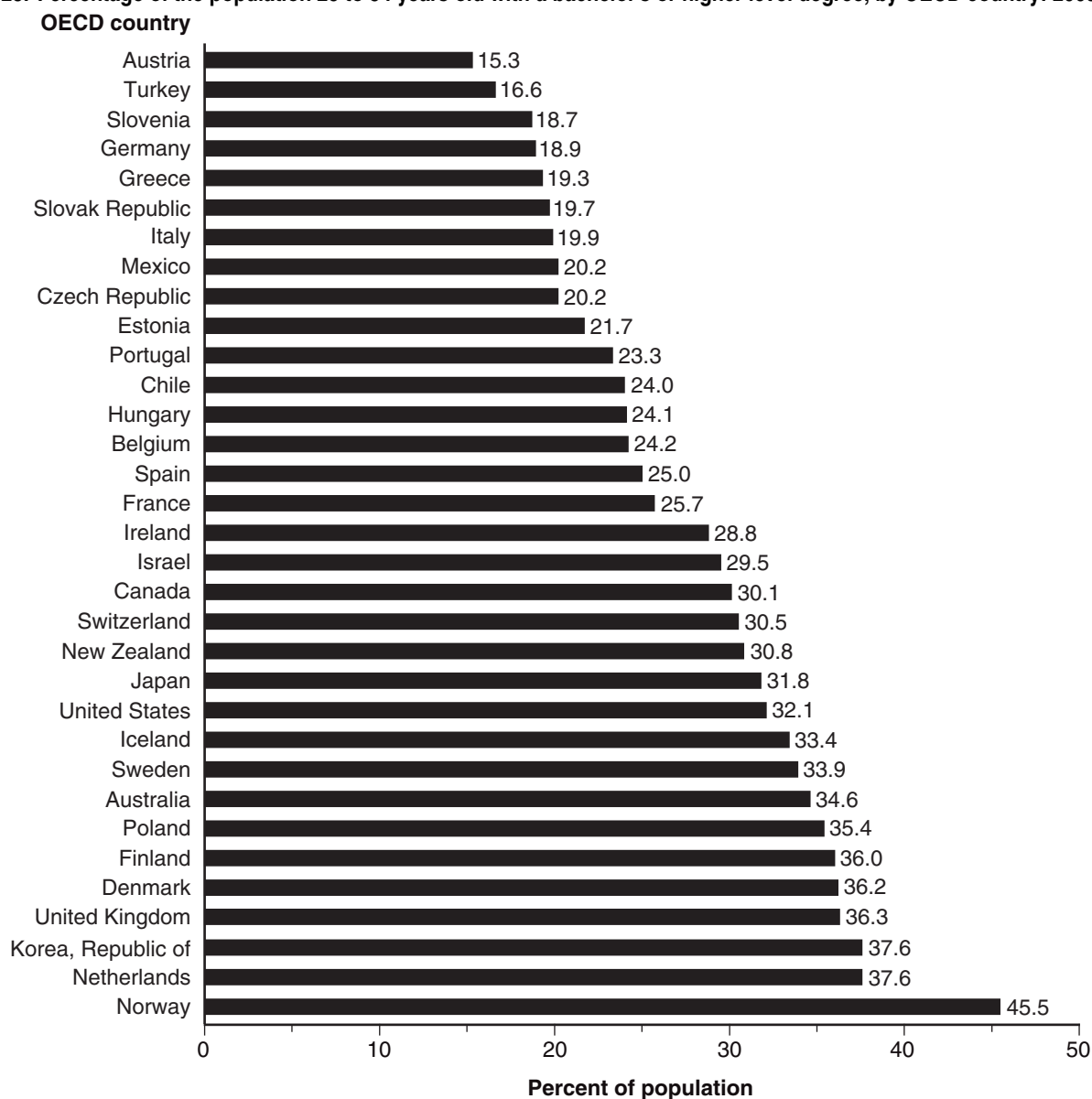
In 2008, per student expenditures at the elementary level of education were \$9,500 or more in 6 of the 30 OECD countries reporting finance data (table 429). Specifically, Luxembourg spent \$13,600 per student at the elementary education level; Norway spent \$11,100; Iceland spent \$10,600; Denmark spent \$10,100; the United States spent \$10,000; and Austria spent \$9,500. At the secondary level, 5 of the 31 reporting countries had expenditures of over \$11,500 per student: Luxembourg (\$19,900), Switzerland (\$17,800), Norway (\$13,100), the United States (\$12,100), and Austria (\$11,700). At the higher education level, 6 of the 30 reporting countries had expenditures of over \$17,000 per student in 2008: the United States (\$29,900), Switzerland (\$21,600), Sweden (\$20,000), Norway (\$18,900), Denmark (\$17,600), and the Netherlands (\$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.

A comparison of public direct expenditures on education as a percentage of gross domestic product (GDP) in reporting OECD countries shows that national investment in education in 2008 ranged from 3.3 percent in Japan and 3.5 percent in the Slovak Republic to 7.3 percent in Norway and 7.2 percent in Iceland (table 430 and figure 29). Among reporting OECD countries, the average public direct expenditure on education in 2008 was 5.1 percent of GDP. In the United States, the public direct expenditure on education as a percentage of GDP was also 5.1 percent.

**Figure 27. Percentage change in enrollment, by major areas of the world and level of education: 2000 to 2009**

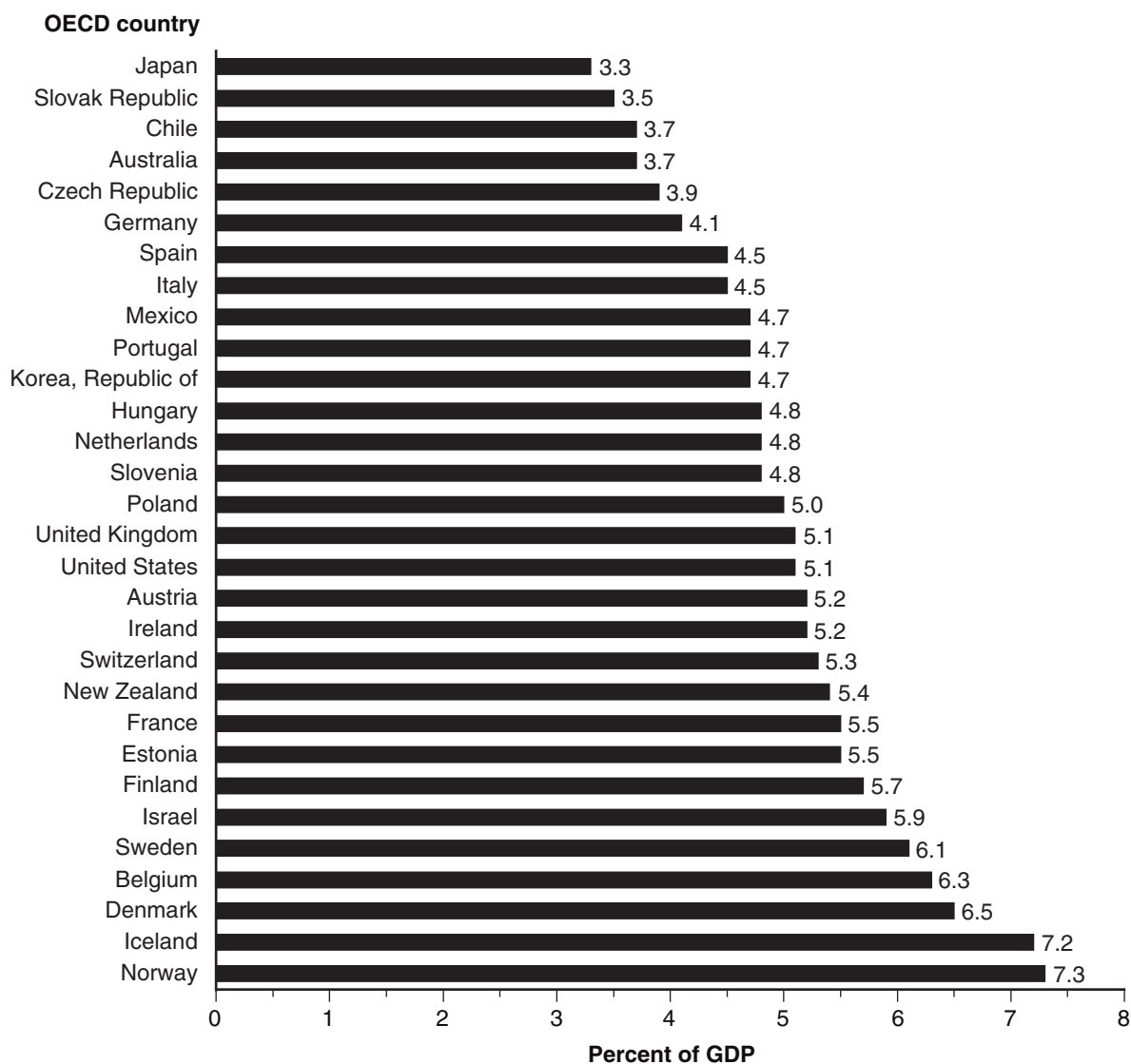
NOTE: Europe includes all countries of the former Union of Soviet Socialist Republics (U.S.S.R.) except Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, and Turkmenistan, which are included in Asia. Turkey and the Arab states are also included in Asia. Central and South America includes Latin America and the Caribbean. Enrollment data for Northern America include Bermuda, Canada, and the United States of America. Data include imputed values for nonrespondent countries.

SOURCE: United Nations Educational, Scientific, and Cultural Organization (UNESCO), unpublished tabulations provided by UNESCO to NCES on July 4, 2011.

**Figure 28. Percentage of the population 25 to 34 years old with a bachelor's or higher level degree, by OECD country: 2009**

NOTE: Refers to degrees classified by OECD as International Standard Classification of Education (ISCED) level 5A (first and second award) or level 6. ISCED 5A, first award, corresponds to the bachelor's degree in the United States; ISCED 5A, second award, corresponds to master's and first-professional degrees in the United States; and ISCED 6 corresponds to doctor's degrees.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2011.

**Figure 29. Public direct expenditures on education as a percentage of gross domestic product (GDP), by OECD country: 2008**

NOTE: Includes both amounts spent directly by governments to hire educational personnel and to procure other resources and amounts provided by governments to public or private institutions or to households.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2011.

**Table 408. Population, school enrollment, and teachers, by major areas of the world and level of education: Selected years, 1980 through 2009**  
[In thousands]

Year and selected characteristic	World total <sup>1</sup>	Major areas of the world					
		Africa	Asia <sup>1,2</sup>	Europe <sup>2</sup>	Central and South America <sup>3</sup>	Northern America <sup>3</sup>	Oceania
1	2	3	4	5	6	7	8
<b>1980</b>							
Population, all ages <sup>4</sup> .....	4,453,474	478,965	2,644,214	695,172	360,660	251,929	22,534
Enrollment, all levels .....	859,095	74,790	496,740	134,219	87,157	60,549	5,641
First (elementary) level <sup>5</sup> .....	527,014	59,150	336,733	48,770	56,815	22,893	2,653
Second level <sup>6</sup> .....	282,431	14,184	147,018	68,414	25,544	24,695	2,577
Third level <sup>7</sup> .....	49,650	1,456	12,989	17,035	4,798	12,961	411
Teachers, all levels .....	39,181	2,258	19,390	—	3,779	—	—
First (elementary) level <sup>5</sup> .....	18,551	1,615	10,771	2,545	1,868	—	—
Second level <sup>6</sup> .....	16,732	561	7,482	5,481	1,527	1,569	112
Third level <sup>7</sup> .....	3,897	81	1,137	—	384	816	31
<b>1990</b>							
Population, all ages <sup>4</sup> .....	5,291,102	632,111	3,189,623	722,653	442,771	277,533	26,412
Enrollment, all levels .....	977,117	104,956	564,149	132,310	108,282	61,543	5,879
First (elementary) level <sup>5</sup> .....	578,886	76,504	363,729	46,595	64,817	24,629	2,611
Second level <sup>6</sup> .....	331,107	25,749	177,981	66,991	36,202	21,534	2,650
Third level <sup>7</sup> .....	67,125	2,703	22,439	18,723	7,263	15,379	617
Teachers, all levels .....	47,529	3,649	24,594	9,861	5,093	3,999	333
First (elementary) level <sup>5</sup> .....	22,243	2,285	13,120	2,703	2,388	1,608	140
Second level <sup>6</sup> .....	20,288	1,213	9,795	5,622	2,106	1,400	152
Third level <sup>7</sup> .....	4,997	151	1,679	1,536	600	991	41
<b>1995</b>							
Population, all ages <sup>4</sup> .....	5,703,456	715,325	3,451,305	729,777	482,572	296,092	28,385
Enrollment, all levels .....	1,088,505	125,625	632,321	137,327	120,299	65,901	7,032
First (elementary) level <sup>5</sup> .....	621,221	90,462	388,299	45,410	67,797	26,243	3,009
Second level <sup>6</sup> .....	387,833	30,944	215,457	70,664	44,307	23,595	2,865
Third level <sup>7</sup> .....	79,452	4,219	28,565	21,252	8,195	16,063	1,158
Teachers, all levels .....	52,091	4,264	26,999	10,522	5,724	4,208	—
First (elementary) level <sup>5</sup> .....	23,839	2,588	14,052	2,807	2,620	1,622	149
Second level <sup>6</sup> .....	22,499	1,450	10,940	6,037	2,403	1,503	—
Third level <sup>7</sup> .....	5,754	226	2,007	1,678	701	1,083	—
<b>2000</b>							
Population, all ages <sup>4</sup> .....	6,094,670	806,960	3,693,640	730,355	519,898	313,398	30,419
Enrollment, all levels .....	1,201,080	152,418	699,847	137,457	136,846	66,967	7,545
First (elementary) level <sup>5</sup> .....	650,860	108,443	399,925	41,731	70,196	27,435	3,130
Second level <sup>6</sup> .....	450,736	37,678	259,143	70,208	55,219	25,117	3,371
Third level <sup>7</sup> .....	99,485	6,296	40,779	25,518	11,431	14,416	1,044
Teachers, all levels .....	57,246	4,996	29,976	10,650	6,567	4,651	—
First (elementary) level <sup>5</sup> .....	25,714	2,898	15,368	2,726	2,761	1,806	155
Second level <sup>6</sup> .....	24,831	1,805	12,158	6,051	2,937	1,684	—
Third level <sup>7</sup> .....	6,701	293	2,450	1,872	869	1,161	—
<b>2005</b>							
Population, all ages <sup>4</sup> .....	6,479,962	911,606	3,919,408	732,870	555,146	328,269	32,663
Enrollment, all levels .....	1,333,617	192,021	782,651	135,135	143,540	72,433	7,836
First (elementary) level <sup>5</sup> .....	685,289	135,365	412,465	38,491	69,042	26,780	3,146
Second level <sup>6</sup> .....	509,920	48,383	307,851	64,823	58,430	27,039	3,395
Third level <sup>7</sup> .....	138,408	8,273	62,336	31,821	16,068	18,614	1,295
Teachers, all levels .....	64,219	5,949	34,404	10,711	7,710	4,997	—
First (elementary) level <sup>5</sup> .....	26,923	3,485	15,815	2,653	2,947	1,865	159
Second level <sup>6</sup> .....	28,237	2,130	14,741	5,827	3,542	1,777	—
Third level <sup>7</sup> .....	9,059	334	3,849	2,232	1,221	1,356	—
<b>2009</b>							
Population, all ages <sup>4</sup> .....	6,792,893	1,003,898	4,095,326	735,573	582,977	340,625	34,494
Enrollment, all levels .....	1,397,476	221,731	817,560	128,007	147,800	74,453	7,925
First (elementary) level <sup>5</sup> .....	701,646	155,441	411,171	36,829	68,189	26,786	3,231
Second level <sup>6</sup> .....	531,248	56,446	326,313	58,168	59,955	27,166	3,200
Third level <sup>7</sup> .....	164,582	9,844	80,076	33,010	19,656	20,501	1,494
Teachers, all levels .....	69,154	6,969	37,697	10,498	8,181	5,359	—
First (elementary) level <sup>5</sup> .....	28,332	3,839	16,808	2,640	2,980	1,899	—
Second level <sup>6</sup> .....	30,430	2,742	16,579	5,457	3,543	1,901	—
Third level <sup>7</sup> .....	10,393	388	4,310	2,401	1,657	1,559	—

—Not available.

<sup>1</sup>Enrollment and teacher data for Asia and the world total exclude the Democratic People's Republic of Korea and Taiwan.

<sup>2</sup>Europe includes all countries of the former Union of Soviet Socialist Republics (U.S.S.R.) except Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, and Turkmenistan, which are included in Asia. Turkey and the Arab states are also included in Asia.

<sup>3</sup>Central and South America includes Latin America and the Caribbean. Northern America includes Bermuda, Canada, and the United States of America; the population data for Northern America also include Greenland as well as St. Pierre and Miquelon.

<sup>4</sup>Estimate of midyear population.

<sup>5</sup>First-level enrollment generally consists of elementary school, grades 1–6.

<sup>6</sup>Second-level enrollment includes general education, teacher training (at the second level), and technical and vocational education. This level generally corresponds to secondary education in the United States, grades 7–12.

<sup>7</sup>Third-level enrollment includes college and university enrollment, and technical and vocational education beyond the secondary school level.

NOTE: Detail may not sum to totals because of rounding. Data include imputed values for nonrespondent countries. Some data have been revised from previously published figures. SOURCE: United Nations Educational, Scientific, and Cultural Organization (UNESCO), unpublished tabulations; and U.S. Department of Commerce, Census Bureau, International Data Base, retrieved July 6, 2011, from <http://www.census.gov/ipc/www/idb/region.php>. (This table was prepared July 2011.)

Table 409. Selected population and enrollment statistics for countries with populations over 10 million in 2009, by continent: Selected years, 1990 through 2009

Country <sup>1</sup>	Midyear population (in millions)			Persons per square kilo- meter, 2009	First level <sup>2</sup>					Second level <sup>3</sup>					Third level <sup>4</sup>				
	1991	2000	2009		Enrollment (in thousands)		Gross enrollment ratio <sup>5</sup>			Enrollment (in thousands)		Gross enrollment ratio <sup>5</sup>			Enrollment (in thousands)		Gross enrollment ratio <sup>5</sup>		
					1999–2000	2008–09	1990–91	1999–2000	2008–09	1999–2000	2008–09	1990–91	1999–2000	2008–09	1999–2000	2008–09	1990–91	1999–2000	2008–09
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
World total <sup>6</sup> .....	5,374	6,095	6,793	52	650,860	701,646	99	99	107	450,736	531,248 <sup>7</sup>	52	60	68 <sup>7</sup>	99,485	164,582 <sup>7</sup>	14	19	27 <sup>7</sup>
Africa																			
Algeria <sup>8</sup> .....	26	30	34	14	4,843	3,253	100	108	108	—	4,585	61	—	96	—	1,150	11	—	31
Angola .....	10	13	17	13	—	—	92	—	—	355	—	12	14	—	—	—	1	—	—
Burkina Faso .....	9	12	16	58	852	1,906	33	45	78	190	468	7	10	20	11 <sup>7</sup>	48	1	1 <sup>7</sup>	3
Cameroon .....	12	15	19	40	2,237 <sup>9</sup>	3,351	101	86 <sup>9</sup>	114	700	1,269	28	27	41	66 <sup>7</sup>	174	3	4 <sup>7</sup>	9
Chad .....	6	8	10	8	914	1,671	54	66	90	137	422	8 <sup>10</sup>	11	24	6	20	1 <sup>11,12</sup>	1	2
Cote d'Ivoire .....	13	17	21	65	1,944	2,383	67	73	74	620 <sup>7</sup>	—	22	23 <sup>7</sup>	—	104 <sup>7</sup>	—	—	6 <sup>7</sup>	—
Democratic Rep. of the Congo .....	41	52	68	30	—	10,244	70	—	90	—	3,399	21 <sup>13</sup>	—	37	—	380	2	—	6
Egypt <sup>8</sup> .....	56	65	79	79	7,947 <sup>7</sup>	10,407	94	93 <sup>7</sup>	101	8,028 <sup>7</sup>	6,696	76	76 <sup>7</sup>	67	—	—	16 <sup>14,15</sup>	—	—
Ethiopia .....	50	64	85	85	5,847	13,571	33	55	102	1,195	3,926	14	14	34	68	—	1	1	—
Ghana <sup>8</sup> .....	16	20	24	105	2,561	3,659	75	83	105	1,057	1,812	36	40	57	—	203	1 <sup>11</sup>	—	9
Guinea .....	7	8	10	41	790	1,390	37	60	90	199 <sup>7</sup>	560 <sup>7</sup>	10	16 <sup>7</sup>	37 <sup>7</sup>	—	—	1	—	—
Kenya <sup>8</sup> .....	24	31	40	70	5,035	7,150	95	95	113	1,909	3,204	24 <sup>10</sup>	39	59	89	168	2 <sup>11</sup>	3	4
Madagascar .....	12	16	21	36	2,208	4,324	103	104	160	—	1,022 <sup>7</sup>	18 <sup>10</sup>	—	32 <sup>7</sup>	32	68	3	2	4
Malawi .....	10	12	15	160	2,695	3,250	68	135	119	487	667	8	31	30	4	—	1	#	—
Mali .....	9	11	13	11	1,017	1,926	26	59	95	258 <sup>7</sup>	686	7	18 <sup>7</sup>	38	20	77	1	2	6
Morocco <sup>8</sup> .....	24	28	31	70	3,670	3,851	67	92	107	1,541	—	35	38	—	276	419	11	9	13
Mozambique <sup>8</sup> .....	13	18	22	28	2,544	5,072	67	75	114	124	598	8	6	23	12	—	# <sup>12</sup>	1	—
Niger .....	8	11	15	12	579	1,554	29	32	62	106 <sup>7</sup>	257	7	7 <sup>7</sup>	12	—	16	1	—	1
Nigeria <sup>8</sup> .....	99	124	157	173	19,151	21,714	91	95	89	4,290 <sup>7</sup>	—	25	25 <sup>7</sup>	—	—	—	4 <sup>11,16</sup>	—	—
Rwanda .....	7	8	11	436	1,432	2,265	70	105	151	130	347	8	11	27	9	55	# <sup>17</sup>	1	5
Senegal .....	8	9	12	62	1,108	1,653	59	68	84	250	—	16	16	—	—	94	3	—	8
South Africa .....	39	45	49	40	7,445	7,129	122	106	101	4,142	4,688	74	86	94	—	—	13 <sup>18</sup>	—	—
Sudan <sup>8</sup> .....	27	34	43	18	2,567	4,744	53	47	74	980	1,837	24	25	38	204 <sup>7</sup>	—	3 <sup>11</sup>	6 <sup>7</sup>	—
Tunisia .....	8	10	10	67	1,414	1,025	113	115	108	1,104 <sup>7</sup>	1,202	45	76 <sup>7</sup>	90	180	360	9	19	34
Uganda .....	18	24	32	164	6,559	8,298	74 <sup>19,20</sup>	127	122	547	1,278 <sup>7</sup>	13 <sup>10,20</sup>	16	27 <sup>7</sup>	56	124	1	3	4
United Republic of Tanzania .....	26	34	41	46	4,382	8,442	70	68	105	287 <sup>7</sup>	1,551 <sup>7</sup>	5	6 <sup>7</sup>	27 <sup>7</sup>	—	—	# <sup>13</sup>	—	—
Zambia .....	8	10	13	18	1,590	2,841	99	82	113	—	—	24	—	—	25 <sup>7</sup>	—	2	2 <sup>7</sup>	—
Zimbabwe .....	10	12	11	29	—	—	116	—	—	—	—	50	—	—	—	—	5	—	—
Asia																			
Afghanistan <sup>8</sup> .....	14	22	28	44	749	4,946	27	22	104	—	1,716	9	—	44	—	95	2	—	4
Bangladesh .....	114	132	154	1,181	—	16,539 <sup>21</sup>	72	—	95 <sup>21</sup>	10,329	—	19	44	—	727	1,295	4	5	8
Cambodia .....	10	12	14	81	2,248	2,290	121	102	116	351	—	32	18	—	22	—	1	2	—
China .....	1,164	1,264	1,324	138	—	103,617	125	—	113	81,488	100,392	49	61	78	7,364	29,296	3	8	25
India .....	854	1,006	1,157	389	113,613	—	97	94	—	71,031	—	44 <sup>10</sup>	46	—	9,404	—	6	10	—
Indonesia .....	185	214	240	133	28,202 <sup>7</sup>	29,901	115	113 <sup>7</sup>	121	14,264 <sup>7</sup>	19,521	44	56 <sup>7</sup>	79	—	4,859	9 <sup>13</sup>	—	24
Iran, Islamic Republic of..	60	69	76	50	8,288	5,655	112	109	103	9,955	7,929	55	82	83	1,405	3,350	10 <sup>14</sup>	18	36
Iraq .....	17	23	29	66	3,639	—	111	94	—	1,224	—	47 <sup>10</sup>	37	—	289	—	12 <sup>17</sup>	12	—
Japan .....	124	127	128	350	7,529	7,156	100	100	102	8,782	7,300	97	101	101	3,982	3,874	30 <sup>13</sup>	48	59
Kazakhstan .....	17	16	17	6	1,208	951	87	97	109	2,003	1,741	98	93	95	370	635	40	28	41
Korea, North (DPR) .....	21	23	24	201	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Korea, South (Republic of) ..	43	47	49	501	4,030	3,482	105	101	104	3,959	3,986	90	97	97	3,003	3,219	39	78	100

See notes at end of table.



Table 409. Selected population and enrollment statistics for countries with populations over 10 million in 2009, by continent: Selected years, 1990 through 2009—Continued

Country <sup>1</sup>	Midyear population (in millions)			Persons per square kilo- meter, 2009	First level <sup>2</sup>					Second level <sup>3</sup>					Third level <sup>4</sup>				
	1991	2000	2009		Enrollment (in thousands)		Gross enrollment ratio <sup>5</sup>			Enrollment (in thousands)		Gross enrollment ratio <sup>5</sup>			Enrollment (in thousands)		Gross enrollment ratio <sup>5</sup>		
					1999–2000	2008–09	1990–91	1999–2000	2008–09	1999–2000	2008–09	1990–91	1999–2000	2008–09	1999–2000	2008–09	1990–91	1999–2000	2008–09
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Malaysia.....	18	23	28	85	3,026	—	94	97	—	2,205	—	56	65	—	549	—	7	26	—
Myanmar.....	41	47	53	81	4,858	5,095	106	103	116	2,268	2,813	23	38	53	—	—	4 <sup>13</sup>	—	—
Nepal <sup>6</sup> .....	19	25	29	199	3,780 <sup>9</sup>	4,782	108	118 <sup>9</sup>	—	1,348	—	33	35	—	94	289	5	4	—
Pakistan.....	122	152	181	235	13,987 <sup>21</sup>	18,468	61 <sup>22</sup>	69 <sup>21</sup>	85	—	9,433	23	—	33	—	—	3	—	—
Philippines.....	67	81	98	329	—	—	111	—	—	—	—	73	—	—	—	—	28	—	—
Saudi Arabia.....	16	21	25	12	—	3,255	73	—	99	—	2,990 <sup>7</sup>	44	—	97 <sup>7</sup>	404	758	12	22	33
Sri Lanka <sup>8</sup> .....	17	19	21	323	—	1,619	106	—	97	—	—	74	—	—	—	—	5 <sup>13,23</sup>	—	—
Syrian Arab Republic.....	13	16	22	119	2,775	2,383	108	104	122	1,069	2,664	52	41	75	—	—	18	—	—
Taiwan.....	20	22	23	712	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Thailand.....	56	62	66	129	6,101	5,371	99	94	91	—	4,769	30	—	76	1,900	2,417	19 <sup>12</sup>	37	45
Turkey.....	58	67	77	100	6,562	—	99	98	—	5,658	—	47	70	—	1,588 <sup>7</sup>	—	13	23 <sup>7</sup>	—
Uzbekistan.....	21	25	28	65	2,602	1,996	81	99	92	3,566	4,506	99	88	104	305	301	30	13	10
Vietnam.....	69	79	89	286	10,063	6,745	103	106	—	7,926	—	32	65	—	732	1,774	2	10	—
Yemen.....	13	17	23	43	2,464 <sup>7</sup>	—	79 <sup>16</sup>	74 <sup>7</sup>	—	1,151 <sup>7</sup>	—	23 <sup>16</sup>	43 <sup>7</sup>	—	173 <sup>7</sup>	—	4 <sup>13</sup>	10 <sup>7</sup>	—
Europe																			
Belgium.....	10	10	10	344	774	732	101	106	103	1,058	810	103	146	108	356	425	40	58	66
Czech Republic.....	10	10	10	132	645	460	96	103	103	958	868	91	88	95	254	417	16 <sup>24</sup>	29	61
France.....	59	61	64	101	3,885	4,153	108	105	109	5,929	5,862	99	109	113	2,015	2,173	40	53	55
Germany <sup>25</sup> .....	80	82	82	235	3,656	3,151	101	106	104	8,307	7,741	98	99	102	—	—	34	—	—
Greece.....	10	11	11	82	645	—	98	96	—	739	—	93	89	—	422	—	36	51	—
Hungary.....	10	10	10	112	501	390	95	102	100	1,002	913	79	95	99	307	398	14	37	62
Italy <sup>8</sup> .....	57	58	60	206	2,836	—	103	103	—	4,404	—	83	93	—	1,770	—	32	49	—
Netherlands <sup>8</sup> .....	15	16	16	487	1,279	1,290	102	108	107	1,379	1,462	120	123	121	488	619	40	52	62
Poland <sup>8</sup> .....	38	39	38	127	3,319	2,294	98	99	97	3,988	2,958	81	100	99	1,580	2,150	22	50	71
Portugal.....	10	10	11	117	811	744	123	124	112	831	710	67	107	107	374	373	23	48	61
Romania <sup>8</sup> .....	23	22	22	96	1,189	856	91	103	99	2,226	1,862	92	81	94	453	1,098	10	24	67
Russian Federation.....	148	147	140	9	6,138	—	109	106	—	—	—	93	—	—	6,331	—	52	55	—
Spain <sup>8</sup> .....	39	41	46	93	2,540	2,684	109	105	107	3,246	3,065	104	111	121	1,829	1,801	37	59	73
Ukraine <sup>8</sup> .....	52	49	46	79	2,079	1,532	89	109	98	5,204	3,289	93	99	94	1,812	2,799	47	49	81
United Kingdom <sup>8</sup> .....	58	59	62	256	4,632	—	104	101	—	5,315	—	85	102	—	2,024	2,415	30	58	59
North America																			
Canada.....	28	31	33	4	2,456	—	103	99	—	2,519	—	101	103	—	1,212	—	95	59	—
Cuba.....	11	11	11	101	1,046	868	98	111	104	790	826	89	79	90	159	971	21	22	118
Guatemala.....	9	11	13	124	1,909	—	78	104	—	504	—	23 <sup>13</sup>	38	—	—	—	8 <sup>12</sup>	—	—
Mexico.....	86	100	111	57	14,766	14,861	114	111	117	9,094	11,475	53	73	90	1,963	2,705	15	20	28
United States.....	253	282	307	34	24,973	24,586	102	100	98	22,594	24,525	93	93	94	13,203	19,103	75	68	86
South America																			
Argentina.....	34	37	41	15	4,728	—	106	115	—	3,428	—	71	88	—	1,767 <sup>7</sup>	—	38 <sup>13</sup>	53 <sup>7</sup>	—
Brazil.....	154	176	199	24	20,212	17,452	106	151	—	26,097	23,617	38	104	—	2,781	6,115	11 <sup>26</sup>	16	—
Chile.....	13	15	17	22	1,799	—	100	100	—	1,391	—	73	83	—	452	—	21 <sup>13</sup>	37	—
Colombia.....	34	39	44	42	5,221	5,299	102	119	120	3,569	4,992	50 <sup>13</sup>	72	95	934	1,570	13	24	37

See notes at end of table.

Table 409. Selected population and enrollment statistics for countries with populations over 10 million in 2009, by continent: Selected years, 1990 through 2009—Continued

Country <sup>1</sup>	Midyear population (in millions)			Persons per square kilo- meter, 2009	First level <sup>2</sup>					Second level <sup>3</sup>					Third level <sup>4</sup>				
	1991	2000	2009		Enrollment (in thousands)		Gross enrollment ratio <sup>5</sup>			Enrollment (in thousands)		Gross enrollment ratio <sup>5</sup>			Enrollment (in thousands)		Gross enrollment ratio <sup>5</sup>		
					1999–2000	2008–09	1990–91	1999–2000	2008–09	1999–2000	2008–09	1990–91	1999–2000	2008–09	1999–2000	2008–09	1990–91	1999–2000	2008–09
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ecuador .....	10	12	15	53	1,925	—	116	115	—	917	—	55 <sup>27</sup>	57	—	—	—	20	—	—
Peru .....	22	26	29	22	4,338	—	118	122	—	2,374	—	67	85	—	—	—	30	—	—
Venezuela .....	20	23	27	30	3,328	3,462	96	102	103	1,543	2,252	35	59	82	668	2,123	29	28	78
Oceania																			
Australia <sup>8</sup> .....	17	19	21	3	1,906	1,992	108	101	106	2,589	2,255	82	162	133	845	1,200	35 <sup>28</sup>	65	82

—Not available.

#Rounds to zero.

<sup>1</sup>Selection based on total population for midyear 2009.<sup>2</sup>First-level enrollment consists of elementary school, typically corresponding to grades 1–6 in the United States.<sup>3</sup>Second-level enrollment includes general education, teacher training (at the second level), and technical and vocational education.

This level generally corresponds to secondary education in the United States, grades 7–12.

<sup>4</sup>Third-level enrollment includes college and university enrollment, and technical and vocational education beyond the secondary school level.<sup>5</sup>Data 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 first and second level programs. Ratios may exceed 100 because some countries have many students from outside the normal age range.<sup>6</sup>Enrollment totals and ratios exclude Democratic People's Republic of Korea.<sup>7</sup>Estimated by the UNESCO Institute for Statistics.<sup>8</sup>Classification or data coverage of levels has been revised. Data by level may not be comparable over time.<sup>9</sup>Policy change in 1999–2000: introduction of free universal primary education.<sup>10</sup>General education enrollment only. Excludes teacher training and vocational education enrollments.<sup>11</sup>Excludes nonuniversity institutions (such as teacher training colleges and technical colleges) and excludes distance-learning universities.<sup>12</sup>Data for 1992–93.<sup>13</sup>Data for 1991–92.<sup>14</sup>Excludes private institutions.<sup>15</sup>Data refer to universities and exclude Al Azhar.<sup>16</sup>Data for 1993–94.<sup>17</sup>Data for 1985–86.<sup>18</sup>Not including the former Independent States of Transkei, Bophuthatswana, Venda, and Ciskei.<sup>19</sup>Estimated.<sup>20</sup>Data refer to government aided and maintained schools only.<sup>21</sup>National estimation.<sup>22</sup>Includes preprimary education.<sup>23</sup>Excludes some nonuniversity institutions.<sup>24</sup>Includes full-time students only.<sup>25</sup>Data include both former East and West Germany.<sup>26</sup>Excludes enrollments in programs formerly classified as doctoral.<sup>27</sup>Including vocational education.<sup>28</sup>Data do not include Vocational Education and Training Institutes (VETs).

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 tables 3B, 5, and 14, retrieved July 12, 2011, from <http://stats.uis.unesco.org/unesco/ReportFolders/ReportFolders.aspx>. U.S. Department of Commerce, Census Bureau, International Data Base, retrieved July 12, 2011, from <http://www.census.gov/ipc/www/db/region.php>. (This table was prepared July 2011.)

Table 410. School-age populations as a percentage of total population, by age group and country: Selected years, 1985 through 2008

Country	5- to 14-year-olds as a percent of total population												15- to 19-year-olds as a percent of total population											
	1985 <sup>1</sup>	1990 <sup>1</sup>	1995 <sup>1</sup>	1998	1999	2002	2003	2004	2005	2006	2007	2008	1985 <sup>2</sup>	1990 <sup>2</sup>	1995 <sup>2</sup>	1998	1999	2002	2003	2004	2005	2006	2007	2008
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
<b>OECD average<sup>3</sup></b>	—	—	12	13	13	13	13	13	13	12	12	12	—	—	6	7	7	7	7	7	7	7	7	7
Australia.....	14	13	13	14	14	14	14	14	13	13	13	13	7	6	6	7	7	7	7	7	7	7	7	7
Austria.....	—	—	—	—	—	12	12	11	11	11	11	11	—	—	—	—	—	6	6	6	6	6	6	6
Belgium.....	11	11	11	12	12	12	12	12	12	12	11	11	6	5	5	6	6	6	6	6	6	6	6	6
Canada.....	13	12	12	14	14	—	13	13	13	12	12	12	6	5	5	7	7	7	7	7	7	7	7	7
Chile.....	—	—	—	—	—	19	18	18	18	17	16	15	—	—	—	—	—	9	9	9	9	9	9	9
Czech Republic.....	( <sup>4</sup> )	( <sup>4</sup> )	12	13	12	12	11	11	10	10	10	9	( <sup>4</sup> )	( <sup>4</sup> )	6	8	7	7	7	7	6	6	6	6
Denmark.....	12	10	10	11	12	12	13	13	13	13	13	12	6	6	5	6	5	5	5	5	6	6	6	6
Estonia.....	( <sup>4</sup> )	( <sup>4</sup> )	—	—	—	—	—	—	11	10	10	10	( <sup>4</sup> )	( <sup>4</sup> )	—	—	—	—	—	8	8	8	8	7
Finland.....	11	12	11	13	13	12	12	12	12	12	12	11	6	5	5	6	6	6	6	6	6	6	6	6
France.....	13	12	12	13	13	12	12	12	12	12	12	12	6	6	5	7	7	7	6	6	7	6	6	6
Germany <sup>5</sup> .....	9	9	10	11	11	11	10	10	10	10	10	10	6	4	4	6	6	6	6	6	6	6	6	6
Greece.....	—	—	11	11	11	10	10	10	10	10	10	9	—	5	6	7	7	6	6	6	6	5	5	5
Hungary.....	—	—	—	—	—	12	11	11	11	11	10	10	—	—	—	—	—	6	6	6	6	6	6	6
Iceland.....	16	15	14	16	16	16	16	15	15	15	14	14	7	7	6	8	8	7	7	7	7	7	7	8
Ireland.....	18	18	15	16	15	14	14	14	14	13	13	13	8	8	8	9	9	8	8	8	7	7	7	6
Israel.....	—	—	—	—	—	18	18	18	18	18	18	18	—	—	—	—	—	9	9	8	8	8	8	8
Italy.....	13	10	9	10	10	10	10	10	9	9	9	9	6	6	5	6	5	5	5	5	5	5	5	5
Japan.....	14	12	10	11	10	10	10	9	9	9	9	9	6	7	5	6	6	6	6	5	5	5	5	5
Korea, Republic of.....	—	—	14	14	14	14	14	14	14	14	13	13	—	—	7	9	8	7	7	6	7	7	7	7
Luxembourg.....	10	10	11	12	12	13	13	13	13	13	12	12	5	4	4	6	6	6	6	6	6	6	6	6
Mexico.....	—	—	—	—	—	22	22	22	21	21	21	21	—	—	—	—	—	10	10	10	10	10	10	10
Netherlands.....	12	11	11	12	12	12	12	12	12	12	12	12	7	5	5	6	6	6	6	6	6	6	6	6
New Zealand.....	15	13	13	15	15	15	15	15	15	14	14	14	7	7	6	7	7	7	7	7	8	8	8	8
Norway.....	13	11	11	13	13	13	14	14	13	13	13	13	6	6	5	6	6	6	6	6	6	6	7	7
Poland.....	—	—	—	—	—	13	13	12	12	12	11	11	—	—	—	—	—	9	8	8	8	8	7	7
Portugal.....	—	—	—	—	—	10	11	10	10	10	10	10	—	—	—	—	—	6	6	6	6	6	6	5
Slovak Republic.....	( <sup>4</sup> )	( <sup>4</sup> )	—	—	—	13	13	13	12	12	11	11	( <sup>4</sup> )	( <sup>4</sup> )	—	—	—	8	8	8	8	8	7	7
Slovenia.....	( <sup>4</sup> )	( <sup>4</sup> )	—	—	—	—	—	—	10	10	9	9	( <sup>4</sup> )	( <sup>4</sup> )	—	—	—	—	—	6	6	6	6	6
Spain.....	15	13	10	11	10	10	10	10	9	9	9	9	7	7	6	7	7	6	6	6	5	5	5	5
Sweden.....	11	10	11	13	13	13	13	13	12	12	11	11	5	5	5	6	6	6	6	6	6	7	7	7
Switzerland.....	11	10	10	12	12	12	12	11	11	11	11	11	6	5	5	6	6	6	6	6	6	6	6	6
Turkey.....	21	21	20	21	21	—	19	19	19	19	19	18	9	9	9	11	11	—	9	9	9	9	9	9
United Kingdom.....	11	11	12	13	13	13	13	13	12	12	12	12	6	5	5	6	6	6	6	7	7	7	7	7
United States.....	13	13	13	14	15	15	14	14	14	14	13	13	6	5	6	7	7	7	7	7	7	7	7	7
<b>Other reporting countries</b>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Brazil.....	—	—	—	—	—	20	21	20	19	19	18	18	—	—	—	—	—	11	11	10	10	10	9	9
Russian Federation.....	( <sup>4</sup> )	( <sup>4</sup> )	14	—	14	12	12	11	10	10	10	9	( <sup>4</sup> )	( <sup>4</sup> )	—	—	—	8	9	9	9	8	8	7

—Not available.

<sup>1</sup>Data are for the 5- to 13-year-old population.<sup>2</sup>Data are for the 14- to 17-year-old population.<sup>3</sup>Refers to the mean of the data values for all reporting 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 that were members of OECD in a given year, the average for that year is omitted.<sup>4</sup>Country did not exist in its current form in the given year.<sup>5</sup>Data for 1985 are for the former West Germany.SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, selected years, 1987 through 2001; and Online Education Database, retrieved May 9, 2011, from <http://stats.oecd.org/Index.aspx>. (This table was prepared May 2011.)

Table 411. Percentage of population enrolled in secondary and postsecondary education, by age group and country: Selected years, 1985 through 2008

Country	Secondary education, 2008							Postsecondary education (total tertiary education)														
	16 years old	17 years old	18 to 21 years old					18 to 21 years old					22 to 25 years old					26 to 29 years old				
			Total	18 years old	19 years old	20 years old	21 years old	1985	1990	2005	2007	2008	1985	1990	2005	2007	2008	1985	1990	2005	2007	2008
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
OECD average <sup>1</sup>	92	84	24	52	25	13	9	—	—	28	28	29	—	—	23	24	24	—	—	10	10	10
Australia.....	93	78	25	38	24	20	17	—	—	34	34	35	—	—	21	22	22	—	—	10	10	10
Austria.....	91	77	19	45	19	8	4	—	—	16	17	18	—	—	20	22	23	—	—	9	11	12
Belgium.....	101	99	23	47	23	13	10	25	—	43	43	42	7	—	19	19	20	2	—	6	6	6
Canada.....	96	81	—	29	11	6	—	—	—	—	22	34	—	—	—	15	23	—	—	—	5	8
Chile.....	90	87	12	33	11	3	2	—	—	—	29	31	—	—	—	21	22	—	—	—	8	9
Czech Republic.....	100	97	32	83	37	7	3	( <sup>2</sup> )	( <sup>2</sup> )	23	24	25	( <sup>2</sup> )	( <sup>2</sup> )	21	24	25	( <sup>2</sup> )	( <sup>2</sup> )	6	7	7
Denmark.....	92	85	47	80	55	31	22	7	7	10	11	12	16	18	34	34	34	8	9	20	20	19
Estonia.....	96	92	25	71	19	7	4	( <sup>2</sup> )	( <sup>2</sup> )	32	31	31	( <sup>2</sup> )	( <sup>2</sup> )	22	23	23	( <sup>2</sup> )	( <sup>2</sup> )	12	11	10
Finland.....	95	95	40	93	32	17	16	9	14	24	23	23	17	21	40	39	39	8	10	20	21	21
France.....	95	88	21	48	24	9	4	19	25	36	36	36	10	12	20	19	19	4	4	5	5	5
Germany <sup>3</sup> .....	96	92	40	84	41	21	14	9	9	13	13	14	—	16	23	23	23	9	10	13	12	12
Greece.....	92	77	13	19	10	6	18	—	—	65	47	51	—	—	18	26	29	—	—	8	11	11
Hungary.....	97	91	26	63	24	12	6	—	—	29	30	31	—	—	23	24	24	—	—	9	9	8
Iceland.....	93	83	51	77	68	35	22	—	—	12	11	11	—	—	28	28	26	—	—	16	15	15
Ireland.....	98	81	9	33	4	1	1	—	21	38	38	39	—	—	13	13	12	—	—	5	6	6
Israel.....	94	88	5	17	2	1	#	—	—	12	12	12	—	—	25	26	25	—	—	15	18	17
Italy.....	93	87	26	74	20	6	3	—	—	29	27	28	—	—	23	25	25	—	—	8	8	8
Japan.....	95	93	1	3	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Korea, Republic of.....	97	88	3	8	2	#	#	—	—	65	69	70	—	—	32	34	34	—	—	6	7	7
Luxembourg.....	88	79	37	70	42	25	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mexico.....	58	46	13	18	30	3	2	—	—	16	17	18	—	—	9	9	10	—	—	3	3	3
Netherlands.....	98	87	37	61	42	28	17	14	18	29	31	32	12	13	24	25	26	6	5	7	7	8
New Zealand.....	86	69	12	23	11	8	7	—	21	34	34	35	—	15	23	22	21	—	—	11	11	11
Norway.....	95	92	41	87	41	20	10	9	14	19	20	19	14	17	30	29	29	6	8	14	14	13
Poland.....	98	96	35	90	36	11	6	—	—	31	33	34	—	—	30	31	31	—	—	6	6	6
Portugal.....	94	83	23	46	25	14	9	6	—	27	27	29	5	—	21	20	19	2	—	8	8	8
Slovak Republic.....	94	90	30	78	35	7	2	( <sup>2</sup> )	( <sup>2</sup> )	22	25	25	( <sup>2</sup> )	( <sup>2</sup> )	16	19	21	( <sup>2</sup> )	( <sup>2</sup> )	5	6	7
Slovenia.....	97	97	32	83	26	24	—	( <sup>2</sup> )	( <sup>2</sup> )	37	40	41	( <sup>2</sup> )	( <sup>2</sup> )	35	38	38	( <sup>2</sup> )	( <sup>2</sup> )	11	11	11
Spain.....	93	82	20	40	22	12	7	15	21	34	34	34	11	14	22	22	21	4	5	9	8	8
Sweden.....	99	98	35	92	20	11	12	8	9	17	16	16	11	11	32	30	28	7	6	16	15	14
Switzerland.....	91	87	40	79	48	21	10	6	6	12	12	13	11	12	20	21	22	5	6	10	11	11
Turkey.....	56	33	5	20	—	—	—	—	7	20	24	25	—	4	11	13	14	—	2	4	5	5
United Kingdom.....	91	74	12	26	11	6	5	15	16	28	29	29	7	11	13	13	12	—	—	7	7	7
United States.....	95	84	7	23	5	#	#	37	41	45	45	47	15	17	23	24	24	8	9	11	10	11
Other reporting countries																						
Brazil.....	85	83	31	55	32	20	15	—	—	10	12	14	—	—	9	11	12	—	—	5	6	7
Russian Federation.....	75	36	5	13	5	2	2	( <sup>2</sup> )	( <sup>2</sup> )	41	—	44	( <sup>2</sup> )	( <sup>2</sup> )	26	—	27	( <sup>2</sup> )	( <sup>2</sup> )	—	—	#

—Not available.

#Rounds to zero.

<sup>1</sup>Refers to the mean of the data values for all reporting 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 that were members of OECD in a given year, the average for that year is omitted.

<sup>2</sup>Country did not exist in its current form in the given year.

<sup>3</sup>Data for 1985 are for the former West Germany.

NOTE: Data refer to programs classified by the Organization for Economic Cooperation and Development (OECD) as International Standard Classification of Education (ISCED) level 3, level 5A (first and second award), level 5B, and level 6. ISCED

level 3 corresponds to secondary education in the United States. ISCED levels 5A (first and second award), 5B, and 6 together make up total tertiary education, which corresponds to 2-year and 4-year college undergraduate and graduate programs in the United States. Includes both full-time and part-time students. Some increases in enrollment rates may be due to more complete reporting by countries. Enrollment figures may not be directly comparable due to differing definitions of postsecondary (tertiary) education and the age at which it begins. Differences in reference dates between enrollment and population data can result in enrollment rates that exceed 100 percent. Postsecondary data for Luxembourg are not shown because tertiary students study for only 1 year in Luxembourg.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, selected years, 1987 through 2001; and Online Education Database, retrieved May 10, 2011, from <http://stats.oecd.org/Index.aspx>. (This table was prepared May 2011.)

Table 412. Pupils per teacher in public and private elementary and secondary schools, by level of education and country: Selected years, 1985 through 2009

Country	Elementary								Junior high school (lower secondary)								Senior high school (upper secondary)							
	1985	1990	2000	2005	2006	2007	2008	2009	1985	1990	2000	2005	2006	2007	2008	2009	1985	1990	2000	2005	2006	2007	2008	2009
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
<b>OECD average<sup>1</sup></b>	—	—	17.7	17.0	16.4	16.2	16.1	16.0	—	—	—	14.0	13.6	13.4	13.5	13.4	—	—	13.7	13.5	13.1	13.1	13.1	13.3
Australia.....	13.8 <sup>2</sup>	—	17.3	16.2	16.0	15.9	15.8	15.8	—	—	—	—	—	—	—	—	3.2	—	—	12.1 <sup>3,4</sup>	12.2 <sup>3,4</sup>	12.1 <sup>3,4</sup>	12.0 <sup>3,4</sup>	12.0 <sup>3,4</sup>
Austria.....	11.3	11.6	—	14.1	13.9	13.6	12.9	12.6	9.2	7.7	—	10.6	10.4	10.3	9.9	9.6	15.2	12.4	—	11.3	11.3	11.0	10.5	10.2
Belgium.....	—	—	15.0 <sup>5</sup>	12.8	12.6	12.6 <sup>6</sup>	12.6 <sup>6</sup>	12.5 <sup>6</sup>	—	—	—	9.4	9.4	9.2 <sup>6</sup>	8.1 <sup>6</sup>	8.1 <sup>6</sup>	—	—	9.7 <sup>4,7</sup>	9.9 <sup>7</sup>	10.2 <sup>7</sup>	10.2 <sup>6,7</sup>	10.8 <sup>6,7</sup>	10.2 <sup>6,7</sup>
Canada.....	18.1	17.1	18.1	—	—	—	—	—	16.0	15.5	18.1	—	—	—	16.6 <sup>5,8</sup>	—	16.0	15.3	19.5	—	—	16.4 <sup>2,4,5,8</sup>	14.7	—
Chile.....	—	—	—	25.9	25.5	24.7	24.1	22.4	—	—	—	25.9	25.5	24.7	24.1	22.4	—	—	—	26.6	26.3	25.7	25.2	24.7
Czech Republic.....	( <sup>9</sup> )	( <sup>9</sup> )	19.7	17.5	17.3	18.7	18.1	18.4	( <sup>9</sup> )	( <sup>9</sup> )	14.7	13.5	12.3	12.3	11.8	11.5	( <sup>9</sup> )	( <sup>9</sup> )	11.5	12.8	11.9	12.3	12.2	12.2
Denmark.....	12.7	11.2	10.4	—	—	—	—	—	10.2	9.3	11.4	11.9 <sup>8</sup>	11.4 <sup>8</sup>	11.2 <sup>8</sup>	10.1 <sup>8</sup>	9.9 <sup>8</sup>	14.8	13.3	14.4	—	—	—	—	—
Estonia.....	( <sup>9</sup> )	( <sup>9</sup> )	—	—	14.1	14.4	16.4	16.2	( <sup>9</sup> )	( <sup>9</sup> )	—	—	12.3	11.4	16.0	15.7	( <sup>9</sup> )	( <sup>9</sup> )	—	—	13.3	12.2 <sup>7</sup>	12.4 <sup>7</sup>	16.8 <sup>7</sup>
Finland.....	—	—	16.9	15.9	15.0	15.0	14.4	13.6	—	—	10.7	10.0	9.7	9.9	10.6	10.1	—	—	17.0 <sup>7,10</sup>	18.0 <sup>7,10</sup>	15.8 <sup>7,10</sup>	15.9 <sup>7</sup>	15.9 <sup>7</sup>	16.6 <sup>7</sup>
France.....	—	—	19.8	19.4	19.3 <sup>6</sup>	19.7 <sup>6</sup>	19.9 <sup>6</sup>	19.7 <sup>6</sup>	—	—	14.7	14.2	14.1 <sup>6</sup>	14.3 <sup>6</sup>	14.6 <sup>6</sup>	14.9 <sup>6</sup>	—	—	10.4	10.3	9.7 <sup>6</sup>	9.6 <sup>6</sup>	9.4 <sup>6</sup>	9.6 <sup>6</sup>
Germany <sup>11</sup> .....	20.7	20.3	19.8	18.8	18.7	18.3	18.0	17.4	16.9	14.6	15.7	15.5	15.5	15.2	15.0	15.1	23.7	21.0	13.9	14.0	14.3	14.3	14.0	13.9
Greece.....	—	—	13.4	11.1	10.6	10.1	10.1 <sup>12</sup>	—	—	—	10.8	7.9	8.0	7.7	7.7 <sup>12</sup>	—	—	—	10.5	8.8	8.3	7.3	7.3 <sup>12</sup>	—
Hungary.....	—	—	10.9	10.6	10.4	10.2	10.6	10.7	—	—	10.9	10.4	10.2	10.2	10.9	10.8	—	—	11.4 <sup>7</sup>	12.2	12.3	12.1	12.3	12.8
Iceland.....	—	—	—	—	—	—	—	—	—	—	12.7 <sup>8</sup>	11.3 <sup>8</sup>	10.6 <sup>8</sup>	10.4 <sup>8</sup>	10.0 <sup>8</sup>	9.9 <sup>8</sup>	—	—	9.7	10.8 <sup>7</sup>	10.8 <sup>7</sup>	10.2 <sup>7</sup>	10.6 <sup>7</sup>	10.9 <sup>7</sup>
Ireland.....	—	—	21.5	17.9	19.4	17.9	17.8	15.9	—	—	—	—	—	—	—	—	7.2	8.3	15.9 <sup>4,7</sup>	15.5 <sup>4,7</sup>	14.6 <sup>4,7</sup>	13.2 <sup>2,4,7</sup>	12.8 <sup>2,4,7</sup>	12.6 <sup>2,4,7</sup>
Israel.....	—	—	—	17.3	17.2	16.4	16.3	17.0	—	—	—	13.4	14.1	12.4	12.2	13.7	—	—	—	13.4	13.2	11.8	10.9	10.8
Italy.....	12.8	10.7	11.0	10.6	10.7	10.5	10.6 <sup>2</sup>	10.7 <sup>2</sup>	9.6	8.5	10.4	10.1	10.3	9.4	9.7 <sup>2</sup>	10.0 <sup>2</sup>	10.8	10.7	10.2	11.0	11.0	10.8	11.8 <sup>2</sup>	11.8 <sup>2</sup>
Japan.....	—	20.8 <sup>2</sup>	20.9	19.4	19.2	19.0	18.8	18.6	—	18.6	16.8	15.1	14.9	14.8	14.7	14.5	—	—	16.2	14.0	13.0 <sup>7</sup>	12.7 <sup>7</sup>	12.3 <sup>7</sup>	12.2 <sup>7</sup>
Korea, Republic of ..	—	—	32.1	28.0	26.7	25.6	24.1	22.5	—	—	21.5	20.8	20.8	20.5	20.2	19.9	—	—	20.9	16.0	15.9	16.2	16.5	16.7
Luxembourg.....	—	—	15.9 <sup>2</sup>	—	11.3 <sup>2</sup>	11.2 <sup>2</sup>	12.1 <sup>2</sup>	11.6	—	—	—	—	—	—	—	—	—	—	9.2 <sup>2,4</sup>	9.0 <sup>2,4</sup>	9.0 <sup>2,4,7</sup>	9.0 <sup>2,4</sup>	9.1 <sup>2,4</sup>	9.1 <sup>4</sup>
Mexico.....	—	—	27.2	28.3	28.0	28.0	28.0	28.1	—	—	34.8	33.7	33.4	33.3	33.9	33.0	—	—	26.5	25.8	25.4	25.7	25.8	25.6
Netherlands.....	20.2	19.2	16.8 <sup>5</sup>	15.9 <sup>5</sup>	15.3 <sup>5</sup>	15.6 <sup>5</sup>	15.8 <sup>2,5</sup>	15.8 <sup>2,5</sup>	12.7	12.4	—	—	—	—	—	—	—	—	17.1 <sup>4</sup>	16.2 <sup>4</sup>	15.8 <sup>4,7</sup>	15.7 <sup>4,7</sup>	15.8 <sup>2,4,7</sup>	16.1 <sup>2,4,7</sup>
New Zealand.....	20.1	19.1	20.6	18.1	17.7	17.5	17.1	16.3	—	—	19.9	16.8	16.6	16.2	16.2	16.3	—	—	13.1	12.9	12.7	13.3	12.8	12.8
Norway.....	—	—	12.4	—	10.9 <sup>2</sup>	11.0 <sup>2</sup>	10.8 <sup>2</sup>	10.7 <sup>2</sup>	—	—	9.9	—	10.2 <sup>2</sup>	10.2 <sup>2</sup>	10.1 <sup>2</sup>	9.9 <sup>2</sup>	—	—	9.7	—	9.7 <sup>2,7</sup>	9.8 <sup>2,7</sup>	9.9 <sup>2,7</sup>	9.4 <sup>2,7</sup>
Poland.....	—	—	12.7	11.7	11.5	11.0	10.5	10.2	—	—	11.5	12.7	12.6	12.4	12.9	12.9	—	—	16.9	12.9	12.8	12.2	12.2	12.0
Portugal.....	—	—	12.1	10.8	10.6	11.8	11.3	11.3	—	—	10.4	8.2	8.3	7.9	8.1	7.6	—	—	7.9	8.0	7.5 <sup>7</sup>	8.4 <sup>7</sup>	7.3 <sup>7</sup>	7.7 <sup>7</sup>
Slovak Republic.....	( <sup>9</sup> )	( <sup>9</sup> )	18.3	18.9	18.6	17.9	18.6	17.7	( <sup>9</sup> )	( <sup>9</sup> )	13.5	14.1	13.7	13.9	14.5	14.0	( <sup>9</sup> )	( <sup>9</sup> )	12.8	14.3	14.2	14.1	15.1	15.1
Slovenia.....	( <sup>9</sup> )	( <sup>9</sup> )	—	15.0	14.9	15.2	15.8	16.7	( <sup>9</sup> )	( <sup>9</sup> )	—	11.1	10.2	9.5	8.9	7.9	( <sup>9</sup> )	( <sup>9</sup> )	—	14.6	14.0 <sup>7</sup>	13.9 <sup>7</sup>	13.7 <sup>7</sup>	14.3 <sup>7</sup>
Spain.....	26.8	21.2	14.9	14.3	14.2	13.6	13.1	13.3	21.4	18.8	—	12.5	12.5	11.7	10.3	10.1	15.3	14.8	11.9 <sup>4</sup>	8.1	7.8	7.7	8.7	9.3
Sweden.....	11.6	10.6	12.8	12.2	12.1	12.3	12.2	12.1	10.8	10.2	12.8	12.0	11.4	11.5	11.4	11.3	13.1	11.9	15.2	14.0	13.8	13.6	14.7	13.2
Switzerland.....	—	—	—	14.6 <sup>2</sup>	15.1 <sup>2</sup>	14.8 <sup>2</sup>	15.4 <sup>2</sup>	15.4 <sup>2</sup>	—	—	—	11.7 <sup>2</sup>	12.3 <sup>2</sup>	12.3 <sup>2</sup>	12.1 <sup>2</sup>	12.0 <sup>2</sup>	—	—	—	10.5 <sup>2,3</sup>	10.5 <sup>2,3</sup>	10.6 <sup>2,3</sup>	10.4 <sup>2,3</sup>	10.4 <sup>2,3</sup>
Turkey.....	31.1	30.6	30.5	25.8	26.7	26.2	24.4	22.9	41.3	48.4	—	†	†	†	†	†	11.0	12.1	14.0	16.2	15.8	16.2	17.0	16.9
United Kingdom.....	19.7	22.0	21.2	20.7	19.8	19.4	20.2	19.9	—	18.5	17.6 <sup>3</sup>	17.0	16.7	16.7	15.0	16.1	11.1	13.9	12.5 <sup>3</sup>	11.8 <sup>3,7</sup>	11.6 <sup>3,7</sup>	11.3 <sup>3,7</sup>	12.4 <sup>7</sup>	12.3 <sup>7</sup>
United States.....	17.0	15.6	15.8	14.9	14.6	14.6	14.3	14.8	16.5	15.9	16.3	15.1	14.7	14.7	14.8	14.3	16.2	15.8	14.1	16.0	15.7	15.6	15.6	15.1
<b>Other reporting countries</b>																								
Brazil.....	—	—	—	22.9	22.5	25.8	24.5	24.0	—	—	—	18.1	17.6	22.3	21.2	21.0	—	—	—	17.6	17.0	20.2	18.4	18.1
Russian Federation.....	( <sup>9</sup> )	( <sup>9</sup> )	—	—	—	17.0 <sup>2</sup>	17.3 <sup>2</sup>	17.9 <sup>2</sup>	( <sup>9</sup> )	( <sup>9</sup> )	—	—	—	—	—	—	( <sup>9</sup> )	( <sup>9</sup> )	—	11.2 <sup>7,13</sup>	9.9 <sup>4,7,13</sup>	8.8 <sup>4,7,14</sup>	8.7 <sup>4,7,14</sup>	8.7 <sup>4,7,14</sup>

—Not available.

†Not applicable. This level of education does not exist within the national education structure; students in the age group normally associated with this education level are reported in other levels.

<sup>1</sup>Refers to the mean of the data values for all reporting 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 that were members of OECD in a given year, the average for that year is omitted.<sup>2</sup>Public schools only.<sup>3</sup>Includes only general programs.<sup>4</sup>Includes junior high school data.<sup>5</sup>Includes preprimary data.<sup>6</sup>Excludes independent private institutions.<sup>7</sup>Includes postsecondary non-higher-education.<sup>8</sup>Includes elementary school data.<sup>9</sup>Country did not exist in its current form in the given year.<sup>10</sup>Includes tertiary type B education (i.e., occupation-specific education corresponding to that offered at the associate's degree level in the United States).<sup>11</sup>Data for 1985 are for the former West Germany.<sup>12</sup>Data included for Greece for 2008 are from 2007.<sup>13</sup>Excludes general programs.<sup>14</sup>Excludes part-time personnel in public institutions.

NOTE: For the U.S. data in this table, elementary school corresponds to grades 1 through 6, junior high school corresponds to grades 7 through 9, and senior high school corresponds to grades 10 through 12.

SOURCE: Organization for Economic Cooperation and Development (OECD), Online Education Database; and *Education at a Glance*, 2002 through 2011. U.S. Department of Education, National Center for Education Statistics, *International Education Indicators: A Time Series Perspective, 1985–1995* (NCES 2000-021). (This table was prepared June 2011).

**Table 413. Teachers' statutory working time and average class sizes in public elementary and secondary schools, by level of education and country: 2009**

Country	Statutory teaching and working time												Average class size	
	Number of weeks of instruction			Number of days of instruction			Net teaching time in hours			Total working time in hours				
	Elementary	Junior high school (lower secondary)	Senior high school (upper secondary) <sup>1</sup>	Elementary	Junior high school (lower secondary)	Senior high school (upper secondary) <sup>1</sup>	Elementary	Junior high school (lower secondary)	Senior high school (upper secondary) <sup>1</sup>	Elementary	Junior high school (lower secondary)	Senior high school (upper secondary) <sup>1</sup>	Elementary	Junior high school (lower secondary) <sup>1</sup>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
OECD average <sup>2</sup> .....	38	38	38	186	185	183	779	701	656	1,665	1,660	1,663	21	24
Australia .....	40	40	40	197	197	193	874	812	797	†	†	†	23	23
Austria .....	38	38	38	180	180	180	779	607	589	1,776	1,776	†	19	22
Belgium (Flemish) .....	37	37	37	178	179	179	801	687	642	†	†	†	—	—
Belgium (French) .....	38	38	38	183	183	183	732	671	610	†	†	†	20	—
Chile .....	40	40	40	191	191	191	1,232	1,232	1,232	1,760	1,760	1,760	28	29
Czech Republic .....	40	40	40	189	189	189	832	624	595	1,664	1,664	1,664	20	22
Denmark <sup>3</sup> .....	42	42	42	200	200	200	648	648	377	1,680	1,680	1,680	20	20
England <sup>3</sup> .....	38	38	38	190	190	190	635	714	714	1,265	1,265	1,265	—	—
Estonia .....	39	39	39	175	175	175	630	630	578	†	†	†	18	20
Finland .....	38	38	38	188	188	188	677	592	550	†	†	†	20	20
France <sup>3</sup> .....	35	35	35	—	—	—	918	642	628	†	†	†	23	24
Germany .....	40	40	40	193	193	193	805	756	713	1,775	1,775	1,775	22	25
Greece .....	36	32	32	177	157	157	589	426	426	†	†	†	17	21
Hungary .....	37	37	37	181	181	181	597	597	597	1,864	1,864	1,864	21	22
Iceland <sup>3</sup> .....	36	36	35	176	176	171	609	609	547	1,800	1,800	1,800	18	20
Ireland .....	37	33	33	183	167	167	915	735	735	†	†	†	24	—
Israel .....	43	42	42	183	176	176	788	589	524	†	†	†	27	32
Italy .....	39	39	39	172	172	172	757	619	619	†	†	†	19	21
Japan <sup>3</sup> .....	40	40	40	201	201	198	707	602	500	1,899	1,899	1,899	28	33
Korea, Republic of .....	40	40	40	220	220	220	836	618	605	1,680	1,680	1,680	29	35
Luxembourg .....	36	36	36	176	176	176	739	634	634	†	†	†	15	19
Mexico .....	42	42	36	200	200	172	800	1,047	843	†	†	†	20	29
Netherlands <sup>4</sup> .....	40	—	—	195	—	—	930	750	750	1,659	1,659	1,659	22	—
Norway .....	38	38	38	190	190	190	741	654	523	1,688	1,688	1,688	†	†
Poland .....	37	37	37	181	179	180	489	483	486	1,480	1,464	1,472	19	24
Portugal .....	37	37	37	175	175	175	875	770	770	1,464	1,464	1,464	20	22
Scotland .....	38	38	38	190	190	190	855	855	855	1,365	1,365	1,365	—	—
Slovak Republic .....	38	38	38	187	187	187	832	645	617	1,560	1,560	1,560	18	21
Slovenia .....	40	40	40	190	190	190	690	690	633	†	†	†	19	20
Spain .....	37	37	36	176	176	171	880	713	693	1,425	1,425	1,425	20	24
Sweden .....	†	†	†	†	†	†	†	†	†	1,767	1,767	1,767	—	—
Switzerland .....	—	—	—	—	—	—	—	—	—	—	—	—	19	19
Turkey .....	38	†	38	180	†	180	639	†	567	1,808	†	1,808	26	†
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—	—	26	21
United States <sup>3</sup> .....	36	36	36	180	180	180	1,097	1,068	1,051	1,913	1,977	1,998	24	23
Other reporting countries														
Brazil .....	40	40	40	200	200	200	800	800	800	800	800	800	27	30
China .....	35	35	35	175	175	175	—	—	—	—	—	—	37	55
Indonesia .....	44	44	44	251	163	163	1,255	734	734	—	—	—	28	36
Russian Federation <sup>3</sup> .....	34	35	35	164	169	169	615	507	507	†	†	†	16	18

—Not available.

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

<sup>1</sup>General programs only.

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

<sup>3</sup>Actual teaching and working time.

<sup>4</sup>Average class size data are for 2006.

NOTE: For the U.S. data in this table, elementary school corresponds to grades 1 through 6, junior high school corresponds to grades 7 through 9, and senior high school corresponds to grades 10 through 12. Canada and New Zealand are not shown in this table due to missing data. SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance, 2011*. (This table was prepared July 2011.)

**Table 414. Average fourth-grade scores, class size, and instructional time in mathematics and science, by country or other jurisdiction: 2007**

Country or other jurisdiction	Mathematics					Science				
	Average score <sup>1</sup>	Average class size	Instructional time in mathematics		Average score <sup>1</sup>	Average class size	Instructional time in science		Average score <sup>1</sup>	Average class size
			Hours per year	As a percent of total instructional time			Hours per year	As a percent of total instructional time		
1	2	3	4	5	6	7	8	9		
<b>International average.....</b>	<b>500 (†)</b>	<b>26 (0.1)</b>	<b>144 (0.5)</b>	<b>16 (0.1)</b>	<b>500 (†)</b>	<b>26 (0.1)</b>	<b>67 (0.4)</b>	<b>8 (#)</b>		
Algeria .....	378 (5.2)	28 <sup>2</sup> (0.8)	177 <sup>3</sup> (4.7)	17 <sup>2</sup> (0.3)	354 (6.0)	30 <sup>2</sup> (0.7)	67 <sup>3</sup> (4.7)	6 <sup>2</sup> (0.4)		
Armenia .....	500 (4.3)	31 <sup>3</sup> (1.6)	133 (3.4)	15 (0.4)	484 (5.7)	27 (0.7)	81 (4.0)	9 (0.4)		
Australia .....	516 (3.5)	24 (0.4)	174 <sup>2</sup> (5.4)	18 <sup>2</sup> (0.5)	527 (3.3)	24 (0.4)	46 <sup>3</sup> (2.2)	5 <sup>3</sup> (0.2)		
Austria .....	505 (2.0)	20 (0.3)	126 (1.1)	17 (0.2)	526 (2.5)	20 (0.3)	92 (1.0)	12 (0.1)		
Chinese Taipei .....	576 (1.7)	31 (0.3)	112 <sup>3</sup> (2.6)	13 (0.3)	557 (2.0)	31 (0.3)	79 <sup>3</sup> (1.5)	9 <sup>2</sup> (0.2)		
Colombia .....	355 (5.0)	32 (1.0)	175 <sup>2</sup> (4.7)	17 (0.5)	400 (5.4)	32 (1.1)	139 <sup>2</sup> (3.9)	13 <sup>2</sup> (0.4)		
Czech Republic.....	486 (2.8)	22 (0.4)	144 (1.1)	19 (0.1)	515 (3.1)	22 (0.4)	41 <sup>2</sup> (1.3)	5 (0.2)		
Denmark <sup>4</sup> .....	523 (2.4)	21 (0.3)	125 <sup>2</sup> (1.2)	15 <sup>2</sup> (0.2)	517 (2.9)	21 <sup>2</sup> (0.3)	59 <sup>2</sup> (0.9)	7 <sup>3</sup> (0.1)		
El Salvador .....	330 (4.1)	30 (0.7)	147 (2.6)	17 (0.4)	390 (3.4)	30 (0.7)	135 (3.5)	15 (0.5)		
England .....	541 (2.9)	28 <sup>2</sup> (0.5)	183 <sup>2</sup> (2.1)	19 (0.2)	542 (2.9)	27 <sup>2</sup> (0.5)	70 <sup>2</sup> (1.7)	7 (0.2)		
Georgia <sup>5</sup> .....	438 (4.2)	22 (0.6)	130 (1.5)	19 <sup>3</sup> (0.4)	418 (4.6)	23 (0.6)	35 <sup>2</sup> (2.8)	5 <sup>3</sup> (0.5)		
Germany .....	525 (2.3)	22 (0.2)	145 <sup>2</sup> (1.5)	17 <sup>2</sup> (0.2)	528 (2.4)	22 (0.2)	106 <sup>2</sup> (2.1)	13 <sup>2</sup> (0.2)		
Hong Kong SAR <sup>6</sup> .....	607 (3.6)	35 (0.4)	150 <sup>3</sup> (3.4)	15 <sup>3</sup> (0.4)	554 (3.5)	35 <sup>2</sup> (0.3)	72 <sup>3</sup> (5.2)	7 <sup>3</sup> (0.5)		
Hungary .....	510 (3.5)	22 (0.4)	110 <sup>3</sup> (1.3)	16 <sup>3</sup> (0.3)	536 (3.3)	22 (0.4)	54 <sup>3</sup> (1.5)	8 <sup>3</sup> (0.2)		
Iran, Islamic Republic of .....	402 (4.1)	24 <sup>3</sup> (0.5)	105 (2.6)	15 (0.4)	436 (4.3)	24 <sup>3</sup> (0.5)	83 (2.4)	12 (0.4)		
Italy .....	507 (3.1)	20 (0.2)	201 <sup>2</sup> (2.8)	19 <sup>2</sup> (0.3)	535 (3.2)	20 (0.2)	68 <sup>2</sup> (1.4)	6 <sup>2</sup> (0.1)		
Japan .....	568 (2.1)	31 (0.4)	136 (1.2)	16 (0.2)	548 (2.1)	31 (0.3)	82 (1.2)	9 (0.1)		
Kazakhstan <sup>5</sup> .....	549 (7.1)	22 (0.5)	133 (1.7)	18 (0.3)	533 (5.6)	22 (0.5)	52 (1.3)	7 (0.2)		
Kuwait <sup>7</sup> .....	316 (3.6)	25 <sup>3</sup> (0.5)	† (†)	4 <sup>3</sup> (0.4)	348 (4.4)	27 <sup>3</sup> (1.5)	† (†)	† (†)		
Latvia <sup>5</sup> .....	537 (2.3)	22 (0.8)	121 <sup>2</sup> (3.1)	18 <sup>2</sup> (0.4)	542 (2.3)	23 (0.9)	48 <sup>2</sup> (1.2)	7 <sup>2</sup> (0.2)		
Lithuania <sup>5</sup> .....	530 (2.4)	20 (0.3)	118 <sup>2</sup> (1.7)	18 <sup>2</sup> (0.3)	514 (2.4)	20 (0.3)	51 <sup>2</sup> (0.6)	8 (0.1)		
Morocco .....	341 (4.7)	29 <sup>2</sup> (0.8)	162 <sup>3</sup> (2.5)	17 <sup>3</sup> (0.3)	297 (5.9)	29 <sup>2</sup> (0.8)	54 <sup>3</sup> (4.2)	5 <sup>3</sup> (0.3)		
Netherlands <sup>8</sup> .....	535 (2.1)	22 (0.4)	179 <sup>3</sup> (4.6)	16 <sup>3</sup> (0.4)	523 (2.6)	22 (0.4)	33 <sup>3</sup> (1.5)	3 <sup>3</sup> (0.1)		
New Zealand.....	492 (2.3)	26 <sup>3</sup> (0.4)	148 (1.8)	16 (0.2)	504 (2.6)	26 <sup>3</sup> (0.4)	45 <sup>3</sup> (2.5)	5 <sup>3</sup> (0.3)		
Norway .....	473 (2.5)	21 (0.5)	115 (2.5)	13 (0.3)	477 (3.5)	21 (0.5)	44 <sup>2</sup> (1.9)	5 <sup>2</sup> (0.2)		
Qatar.....	296 (1.0)	28 <sup>2</sup> (#)	† (†)	12 <sup>3</sup> (#)	294 (2.6)	27 <sup>3</sup> (#)	† (†)	† (†)		
Russian Federation.....	544 (4.9)	21 (0.4)	110 <sup>3</sup> (1.3)	17 <sup>3</sup> (0.2)	546 (4.8)	21 (0.4)	40 <sup>3</sup> (1.1)	6 <sup>3</sup> (0.2)		
Scotland <sup>4</sup> .....	494 (2.2)	25 <sup>3</sup> (0.4)	181 <sup>3</sup> (2.7)	19 <sup>3</sup> (0.3)	500 (2.3)	26 <sup>3</sup> (0.6)	51 <sup>3</sup> (3.1)	5 <sup>2</sup> (0.3)		
Singapore .....	599 (3.7)	38 (0.2)	201 (0.8)	21 (0.1)	587 (4.1)	38 (0.2)	82 (0.9)	9 (0.1)		
Slovak Republic .....	496 (4.5)	21 (0.3)	143 <sup>2</sup> (0.6)	18 (0.2)	526 (4.8)	21 (0.3)	59 <sup>2</sup> (0.7)	7 (0.1)		
Slovenia.....	502 (1.8)	19 (0.3)	141 <sup>2</sup> (1.0)	20 <sup>2</sup> (0.2)	518 (1.9)	19 (0.3)	84 <sup>2</sup> (0.8)	12 <sup>2</sup> (0.1)		
Sweden.....	503 (2.5)	22 (0.5)	104 <sup>2</sup> (2.3)	12 <sup>2</sup> (0.3)	525 (2.9)	22 (0.6)	56 <sup>2</sup> (2.5)	6 <sup>2</sup> (0.3)		
Tunisia.....	327 (4.5)	25 <sup>2</sup> (0.4)	166 <sup>3</sup> (1.6)	18 <sup>2</sup> (0.4)	318 (5.9)	25 <sup>2</sup> (0.5)	71 <sup>3</sup> (2.7)	8 <sup>3</sup> (0.3)		
Ukraine .....	469 (2.9)	23 (0.4)	104 (1.4)	17 (0.3)	474 (3.1)	23 (0.4)	33 (1.1)	5 (0.2)		
United States <sup>4,9</sup> .....	529 (2.4)	23 <sup>2</sup> (0.4)	171 <sup>3</sup> (3.7)	16 <sup>3</sup> (0.4)	539 (2.7)	26 <sup>2</sup> (0.7)	89 <sup>2</sup> (2.5)	8 <sup>2</sup> (0.2)		
Yemen.....	224 (6.0)	46 <sup>2</sup> (1.7)	134 <sup>3</sup> (7.1)	15 (0.5)	197 (7.2)	45 <sup>2</sup> (1.4)	83 <sup>3</sup> (5.7)	10 <sup>2</sup> (0.5)		

†Not applicable.

#Rounds to zero.

‡Reporting standards not met because data are available for less than 50 percent of the students.

<sup>1</sup>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.

<sup>2</sup>Data are available for at least 70 percent but less than 85 percent of students.

<sup>3</sup>Data are available for at least 50 percent but less than 70 percent of students.

<sup>4</sup>Met guidelines for sample participation rates only after substitute schools were included.

<sup>5</sup>National Target Population does not include all of the International Target Population defined by the Trends in International Mathematics and Science Study (TIMSS).

<sup>6</sup>Hong Kong is a Special Administrative Region (SAR) of the People's Republic of China.

<sup>7</sup>Kuwait tested the same cohort of students as other countries, but later in 2007, at the beginning of the next school year.

<sup>9</sup>Nearly satisfied guidelines for sample participation rates only after substitute schools were included.

<sup>9</sup>National Defined Population covers 90 to 95 percent of National Target Population.

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). Teachers provided class size and instructional time in mathematics and science. Instructional time was reported as hours per week; the hours per year shown in this table were computed by multiplying the hours per week by the number of instructional weeks per year. Schools provided the total instructional time used to calculate the percentage of time devoted to mathematics and science. Standard errors appear in parentheses.

SOURCE: International Association for the Evaluation of Educational Achievement (IEA), Trends in International Mathematics and Science Study (TIMSS), 2007, *TIMSS 2007 International Mathematics Report*, by Ina V.S. Mullis et al., and *TIMSS 2007 International Science Report*, by Michael O. Martin et al. (This table was prepared June 2011.)

**Table 415. Average eighth-grade scores, class size, and instructional time in mathematics and science, by country or other jurisdiction: 2007**

Country or other jurisdiction	Mathematics				Science			
	Average score <sup>1</sup>	Average class size	Instructional time in mathematics		Average score <sup>1</sup>	Average class size	Instructional time in science <sup>2</sup>	
			Hours per year	As a percent of total instructional time			Hours per year	As a percent of total instructional time
1	2	3	4	5	6	7	8	9
<b>International average.....</b>	<b>500 (†)</b>	<b>29 (0.1)</b>	<b>120 (0.4)</b>	<b>12 (#)</b>	<b>500 (†)</b>	<b>30 (0.1)</b>	<b>110 (0.7)</b>	<b>11 (0.1)</b>
Algeria.....	387 (2.1)	37 <sup>3</sup> (0.7)	† (†)	13 <sup>4</sup> (0.4)	408 (1.7)	37 <sup>3</sup> (0.6)	— (†)	— (†)
Armenia.....	499 (3.5)	25 <sup>3</sup> (0.4)	110 (3.9)	11 (0.4)	488 (5.8)	25 <sup>4</sup> (0.4)	— (†)	— (†)
Australia.....	496 (3.9)	26 <sup>3</sup> (0.3)	131 <sup>3</sup> (2.0)	13 <sup>3</sup> (0.2)	515 (3.6)	25 <sup>4</sup> (0.4)	123 <sup>4</sup> (1.8)	12 <sup>4</sup> (0.1)
Bahrain.....	398 (1.6)	31 (0.1)	96 <sup>4</sup> (2.8)	9 <sup>3</sup> (0.3)	467 (1.7)	31 (0.2)	80 <sup>4</sup> (3.5)	8 <sup>3</sup> (0.3)
Bosnia and Herzegovina.....	456 (2.7)	24 (0.4)	102 <sup>3</sup> (0.9)	11 <sup>3</sup> (0.3)	466 (2.8)	24 (0.4)	— (†)	— (†)
Botswana.....	364 (2.3)	38 (0.4)	138 <sup>3</sup> (1.5)	13 <sup>3</sup> (0.3)	355 (3.1)	37 (0.3)	138 <sup>3</sup> (2.1)	13 <sup>3</sup> (0.3)
Bulgaria <sup>5</sup> .....	464 (5.0)	22 (0.3)	93 <sup>3</sup> (2.0)	12 <sup>3</sup> (0.3)	470 (5.9)	20 (0.5)	— (†)	— (†)
Chinese Taipei.....	598 (4.5)	35 (0.5)	158 (3.5)	14 (0.2)	561 (3.7)	35 (0.4)	145 (3.1)	12 (0.3)
Colombia.....	380 (3.6)	35 <sup>4</sup> (0.6)	151 <sup>3</sup> (4.7)	12 <sup>3</sup> (0.7)	417 (3.5)	36 <sup>4</sup> (0.9)	123 <sup>3</sup> (5.6)	10 <sup>3</sup> (0.6)
Cyprus.....	465 (1.6)	24 <sup>3</sup> (0.2)	72 <sup>4</sup> (0.3)	8 <sup>4</sup> (#)	452 (2.0)	24 <sup>4</sup> (0.1)	— (†)	— (†)
Czech Republic.....	504 (2.4)	24 <sup>3</sup> (0.3)	128 (2.1)	14 <sup>3</sup> (0.2)	539 (1.9)	24 <sup>3</sup> (0.3)	— (†)	— (†)
Egypt.....	391 (3.6)	39 (0.6)	93 <sup>3</sup> (4.3)	8 (0.4)	408 (3.6)	39 (0.6)	86 <sup>3</sup> (4.1)	7 (0.4)
El Salvador.....	340 (2.8)	29 (0.8)	142 (2.6)	17 (0.5)	387 (2.9)	30 (0.8)	135 (2.7)	16 (0.4)
England <sup>6</sup> .....	513 (4.8)	26 <sup>4</sup> (0.6)	113 (1.7)	12 (0.2)	542 (4.5)	26 <sup>4</sup> (0.6)	137 <sup>3</sup> (6.6)	14 (0.7)
Georgia <sup>7</sup> .....	410 (5.9)	23 (0.6)	110 (0.8)	13 (0.2)	421 (4.8)	24 (0.5)	— (†)	— (†)
Ghana.....	309 (4.4)	46 <sup>3</sup> (1.9)	146 <sup>3</sup> (5.0)	13 (0.5)	303 (5.4)	44 <sup>3</sup> (1.9)	117 <sup>3</sup> (6.3)	11 (0.6)
Hong Kong SAR <sup>6,8</sup> .....	572 (5.8)	37 (0.5)	148 <sup>4</sup> (3.8)	14 <sup>4</sup> (0.4)	530 (4.9)	39 (0.3)	100 <sup>4</sup> (2.9)	10 <sup>4</sup> (0.3)
Hungary.....	517 (3.5)	21 (0.5)	99 <sup>4</sup> (1.3)	13 <sup>4</sup> (0.2)	539 (2.9)	23 <sup>3</sup> (0.4)	— (†)	— (†)
Indonesia.....	397 (3.8)	38 (0.9)	136 <sup>4</sup> (4.7)	11 <sup>4</sup> (0.3)	427 (3.4)	36 <sup>3</sup> (0.9)	— (†)	— (†)
Iran, Islamic Republic of.....	403 (4.1)	26 <sup>3</sup> (0.5)	99 <sup>4</sup> (2.3)	11 <sup>4</sup> (0.3)	459 (3.6)	26 <sup>3</sup> (0.5)	98 <sup>4</sup> (1.9)	11 <sup>4</sup> (0.2)
Israel <sup>5</sup> .....	463 (3.9)	33 <sup>4</sup> (0.4)	† (†)	12 <sup>4</sup> (0.3)	468 (4.3)	33 <sup>3</sup> (0.4)	111 <sup>4</sup> (5.0)	10 <sup>3</sup> (0.4)
Italy.....	480 (3.0)	22 (0.2)	136 <sup>3</sup> (1.5)	13 <sup>3</sup> (0.2)	495 (2.8)	22 (0.2)	69 <sup>4</sup> (0.8)	6 <sup>4</sup> (0.1)
Japan.....	570 (2.4)	34 (0.5)	105 (1.6)	10 (0.1)	554 (1.9)	35 (0.3)	103 <sup>3</sup> (1.8)	10 <sup>3</sup> (0.2)
Jordan.....	427 (4.1)	35 (0.7)	141 (1.1)	14 (0.2)	482 (4.0)	35 (0.7)	141 (1.1)	13 (0.2)
Korea, Republic of.....	597 (2.7)	37 <sup>4</sup> (0.4)	104 <sup>4</sup> (0.7)	11 <sup>4</sup> (0.2)	553 (2.0)	37 <sup>4</sup> (0.3)	104 <sup>4</sup> (0.7)	11 <sup>4</sup> (0.2)
Kuwait <sup>9</sup> .....	354 (2.3)	30 <sup>4</sup> (0.5)	† (†)	6 <sup>4</sup> (0.6)	418 (2.8)	31 <sup>4</sup> (0.8)	† (†)	6 <sup>4</sup> (0.5)
Lebanon.....	449 (4.0)	26 (0.6)	† (†)	† (†)	414 (5.9)	27 (0.7)	— (†)	— (†)
Lithuania <sup>7</sup> .....	506 (2.3)	25 <sup>3</sup> (0.3)	116 <sup>3</sup> (0.9)	13 <sup>3</sup> (0.2)	519 (2.5)	25 <sup>3</sup> (0.3)	— (†)	— (†)
Malaysia.....	474 (5.0)	36 (0.4)	123 (1.0)	11 (0.1)	471 (6.0)	36 (0.4)	122 (1.3)	11 (0.2)
Malta.....	488 (1.2)	22 (#)	128 (0.1)	13 (#)	457 (1.4)	20 (#)	— (†)	— (†)
Norway.....	469 (2.0)	25 <sup>3</sup> (0.4)	113 (1.6)	13 (0.2)	487 (2.2)	25 <sup>4</sup> (0.5)	85 (1.1)	10 (0.1)
Oman.....	372 (3.4)	32 (0.4)	150 <sup>4</sup> (4.5)	15 (0.5)	423 (3.0)	31 (0.5)	130 <sup>3</sup> (5.7)	13 (0.5)
Palestinian National Authority.....	367 (3.5)	38 (0.5)	100 <sup>4</sup> (4.0)	11 <sup>4</sup> (0.4)	404 (3.5)	38 (0.5)	87 <sup>4</sup> (3.5)	10 <sup>4</sup> (0.4)
Qatar.....	307 (1.4)	27 (#)	138 <sup>4</sup> (0.1)	13 <sup>4</sup> (#)	319 (1.7)	26 <sup>3</sup> (#)	† (†)	† (†)
Romania.....	461 (4.1)	21 (0.3)	122 <sup>3</sup> (1.9)	14 <sup>3</sup> (0.3)	462 (3.9)	21 (0.3)	— (†)	— (†)
Russian Federation.....	512 (4.1)	21 (0.3)	131 <sup>3</sup> (1.4)	15 <sup>3</sup> (0.2)	530 (3.9)	21 (0.3)	— (†)	— (†)
Saudi Arabia.....	329 (2.9)	30 (0.8)	107 <sup>4</sup> (3.2)	11 <sup>3</sup> (0.3)	403 (2.4)	30 <sup>3</sup> (1.1)	† (†)	† (†)
Scotland <sup>6</sup> .....	487 (3.7)	25 <sup>3</sup> (0.5)	135 <sup>4</sup> (2.2)	13 <sup>4</sup> (0.2)	496 (3.4)	20 <sup>4</sup> (0.6)	108 <sup>4</sup> (3.1)	10 <sup>3</sup> (0.3)
Serbia <sup>7,10</sup> .....	486 (3.3)	24 (0.4)	103 <sup>4</sup> (0.8)	13 <sup>4</sup> (0.2)	470 (3.2)	24 (0.4)	— (†)	— (†)
Singapore.....	593 (3.8)	38 (0.2)	124 (1.0)	13 (0.1)	567 (4.4)	38 (0.2)	140 (1.8)	14 (0.2)
Slovenia.....	501 (2.1)	16 <sup>3</sup> (0.2)	113 (0.4)	13 (0.1)	538 (2.2)	22 <sup>3</sup> (0.3)	— (†)	— (†)
Sweden.....	491 (2.3)	23 <sup>4</sup> (0.5)	93 <sup>3</sup> (1.4)	10 <sup>3</sup> (0.2)	511 (2.6)	24 <sup>3</sup> (0.6)	— (†)	— (†)
Syrian Arab Republic.....	395 (3.8)	31 (0.6)	76 <sup>3</sup> (3.4)	10 (0.4)	452 (2.9)	32 (0.5)	— (†)	— (†)
Thailand.....	441 (5.0)	38 <sup>3</sup> (0.6)	124 (2.3)	10 (0.2)	471 (4.3)	38 (0.6)	119 (2.2)	10 (0.2)
Tunisia.....	420 (2.4)	32 (0.4)	126 <sup>4</sup> (2.1)	10 <sup>3</sup> (0.2)	445 (2.1)	32 (0.4)	58 <sup>3</sup> (1.4)	5 <sup>3</sup> (0.1)
Turkey.....	432 (4.8)	33 (0.7)	95 (0.4)	11 (0.3)	454 (3.7)	33 (0.6)	72 (0.5)	8 (0.2)
Ukraine.....	462 (3.6)	25 (0.4)	130 (2.0)	15 (0.2)	485 (3.5)	25 (0.4)	— (†)	— (†)
United States <sup>6,10</sup> .....	508 (2.8)	24 <sup>4</sup> (0.4)	148 <sup>4</sup> (2.3)	13 <sup>4</sup> (0.2)	520 (2.9)	28 <sup>3</sup> (0.9)	139 <sup>4</sup> (2.4)	13 <sup>4</sup> (0.2)

—Not available.

†Not applicable.

#Rounds to zero.

<sup>†</sup>Reporting standards not met because data are available for less than 50 percent of the students.

<sup>1</sup>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.

<sup>2</sup>Includes only general/integrated science. Does not include the 19 participating countries that teach the sciences as separate subjects (biology, chemistry, etc.) at eighth grade.

<sup>3</sup>Data are available for at least 70 percent but less than 85 percent of students.

<sup>4</sup>Data are available for at least 50 percent but less than 70 percent of students.

<sup>5</sup>National Defined Population covers less than 90 percent of National Target Population (but at least 77 percent). (For Bulgaria, this note applies only to science data.)

<sup>6</sup>Met guidelines for sample participation rates only after substitute schools were included.

<sup>7</sup>National Target Population does not include all of the International Target Population defined by the Trends in International Mathematics and Science Study (TIMSS).

<sup>8</sup>Hong Kong is a Special Administrative Region (SAR) of the People's Republic of China.

<sup>9</sup>Kuwait tested the same cohort of students as other countries, but later in 2007, at the beginning of the next school year.

<sup>10</sup>National Defined Population covers 90 to 95 percent of National Target Population.

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). Teachers provided class size and instructional time in mathematics and science. Instructional time was reported as hours per week; the hours per year shown in this table were computed by multiplying the hours per week by the number of instructional weeks per year. Schools provided the total instructional time used to calculate the percentage of time devoted to mathematics and science. Standard errors appear in parentheses.

SOURCE: International Association for the Evaluation of Educational Achievement (IEA), Trends in International Mathematics and Science Study (TIMSS), 2007, *TIMSS 2007 International Mathematics Report*, by Ina V.S. Mullis et al., and *TIMSS 2007 International Science Report*, by Michael O. Martin et al. (This table was prepared June 2011.)



**Table 416. Average reading literacy, mathematics literacy, and science literacy scores of 15-year-old students, by sex and country: 2009**

Country or other jurisdiction	Reading literacy			Mathematics literacy			Science literacy		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
1	2	3	4	5	6	7	8	9	10
<b>OECD total<sup>1</sup></b>	<b>492 (1.2)</b>	<b>475 (1.4)</b>	<b>508 (1.2)</b>	<b>488 (1.2)</b>	<b>496 (1.3)</b>	<b>481 (1.3)</b>	<b>496 (1.2)</b>	<b>498 (1.5)</b>	<b>494 (1.3)</b>
<b>OECD average<sup>2</sup></b>	<b>493 (0.5)</b>	<b>474 (0.6)</b>	<b>513 (0.5)</b>	<b>496 (0.5)</b>	<b>501 (0.6)</b>	<b>490 (0.6)</b>	<b>501 (0.5)</b>	<b>501 (0.6)</b>	<b>501 (0.6)</b>
Australia.....	515 (2.3)	496 (2.9)	533 (2.6)	514 (2.5)	519 (3.0)	509 (2.8)	527 (2.5)	527 (3.1)	528 (2.8)
Austria.....	470 (2.9)	449 (3.8)	490 (4.0)	496 (2.7)	506 (3.4)	486 (4.0)	494 (3.2)	498 (4.2)	490 (4.4)
Belgium.....	506 (2.3)	493 (3.4)	520 (2.9)	515 (2.3)	526 (3.3)	504 (3.0)	507 (2.5)	510 (3.6)	503 (3.2)
Canada.....	524 (1.5)	507 (1.8)	542 (1.7)	527 (1.6)	533 (2.0)	521 (1.7)	529 (1.6)	531 (1.9)	526 (1.9)
Chile.....	449 (3.1)	439 (3.9)	461 (3.6)	421 (3.1)	431 (3.7)	410 (3.6)	447 (2.9)	452 (3.5)	443 (3.5)
Czech Republic.....	478 (2.9)	456 (3.7)	504 (3.0)	493 (2.8)	495 (3.9)	490 (3.0)	500 (3.0)	498 (4.0)	503 (3.2)
Denmark.....	495 (2.1)	480 (2.5)	509 (2.5)	503 (2.6)	511 (3.0)	495 (2.9)	499 (2.5)	505 (3.0)	494 (2.9)
Estonia.....	501 (2.6)	480 (2.9)	524 (2.8)	512 (2.6)	516 (2.9)	508 (2.9)	528 (2.7)	527 (3.1)	528 (3.1)
Finland.....	536 (2.3)	508 (2.6)	563 (2.4)	541 (2.2)	542 (2.5)	539 (2.5)	554 (2.3)	546 (2.7)	562 (2.6)
France.....	496 (3.4)	475 (4.3)	515 (3.4)	497 (3.1)	505 (3.8)	489 (3.4)	498 (3.6)	500 (4.6)	497 (3.5)
Germany.....	497 (2.7)	478 (3.6)	518 (2.9)	513 (2.9)	520 (3.6)	505 (3.3)	520 (2.8)	523 (3.7)	518 (3.3)
Greece.....	483 (4.3)	459 (5.5)	506 (3.5)	466 (3.9)	473 (5.4)	459 (3.3)	470 (4.0)	465 (5.1)	475 (3.7)
Hungary.....	494 (3.2)	475 (3.9)	513 (3.6)	490 (3.5)	496 (4.2)	484 (3.9)	503 (3.1)	503 (3.8)	503 (3.5)
Iceland.....	500 (1.4)	478 (2.1)	522 (1.9)	507 (1.4)	508 (2.0)	505 (1.9)	496 (1.4)	496 (2.1)	495 (2.0)
Ireland.....	496 (3.0)	476 (4.2)	515 (3.1)	487 (2.5)	491 (3.4)	483 (3.0)	508 (3.3)	507 (4.3)	509 (3.8)
Israel.....	474 (3.6)	452 (5.2)	495 (3.4)	447 (3.3)	451 (4.7)	443 (3.3)	455 (3.1)	453 (4.4)	456 (3.2)
Italy.....	486 (1.6)	464 (2.3)	510 (1.9)	483 (1.9)	490 (2.3)	475 (2.2)	489 (1.8)	488 (2.5)	490 (2.0)
Japan.....	520 (3.5)	501 (5.6)	540 (3.7)	529 (3.3)	534 (5.3)	524 (3.9)	539 (3.4)	534 (5.5)	545 (3.9)
Korea, Republic of.....	539 (3.5)	523 (4.9)	558 (3.8)	546 (4.0)	548 (6.2)	544 (4.5)	538 (3.4)	537 (5.0)	539 (4.2)
Luxembourg.....	472 (1.3)	453 (1.9)	492 (1.5)	489 (1.2)	499 (2.0)	479 (1.3)	484 (1.2)	487 (2.0)	480 (1.6)
Mexico.....	425 (2.0)	413 (2.1)	438 (2.1)	419 (1.8)	425 (2.1)	412 (1.9)	416 (1.8)	419 (2.0)	413 (1.9)
Netherlands.....	508 (5.1)	496 (5.1)	521 (5.3)	526 (4.7)	534 (4.8)	517 (5.1)	522 (5.4)	524 (5.3)	520 (5.9)
New Zealand.....	521 (2.4)	499 (3.6)	544 (2.6)	519 (2.3)	523 (3.2)	515 (2.9)	532 (2.6)	529 (4.0)	535 (2.9)
Norway.....	503 (2.6)	480 (3.0)	527 (2.9)	498 (2.4)	500 (2.7)	495 (2.8)	500 (2.6)	498 (3.0)	502 (2.8)
Poland.....	500 (2.6)	476 (2.8)	525 (2.9)	495 (2.8)	497 (3.0)	493 (3.2)	508 (2.4)	505 (2.7)	511 (2.8)
Portugal.....	489 (3.1)	470 (3.5)	508 (2.9)	487 (2.9)	493 (3.3)	481 (3.1)	493 (2.9)	491 (3.4)	495 (3.0)
Slovak Republic.....	477 (2.5)	452 (3.5)	503 (2.8)	497 (3.1)	498 (3.7)	495 (3.4)	490 (3.0)	490 (4.0)	491 (3.2)
Slovenia.....	483 (1.0)	456 (1.6)	511 (1.4)	501 (1.2)	502 (1.8)	501 (1.7)	512 (1.1)	505 (1.7)	519 (1.6)
Spain.....	481 (2.0)	467 (2.2)	496 (2.2)	483 (2.1)	493 (2.3)	474 (2.5)	488 (2.1)	492 (2.5)	485 (2.3)
Sweden.....	497 (2.9)	475 (3.2)	521 (3.1)	494 (2.9)	493 (3.1)	495 (3.3)	495 (2.7)	493 (3.0)	497 (3.2)
Switzerland.....	501 (2.4)	481 (2.9)	520 (2.7)	534 (3.3)	544 (3.7)	524 (3.4)	517 (2.8)	520 (3.2)	512 (3.0)
Turkey.....	464 (3.5)	443 (3.7)	486 (4.1)	445 (4.4)	451 (4.6)	440 (5.6)	454 (3.6)	448 (3.8)	460 (4.5)
United Kingdom.....	494 (2.3)	481 (3.5)	507 (2.9)	492 (2.4)	503 (3.2)	482 (3.3)	514 (2.5)	519 (3.6)	509 (3.2)
United States.....	500 (3.7)	488 (4.2)	513 (3.8)	487 (3.6)	497 (4.0)	477 (3.8)	502 (3.6)	509 (4.2)	495 (3.7)
<b>Reporting partner countries</b>									
Albania.....	385 (4.0)	355 (5.1)	417 (3.9)	377 (4.0)	372 (4.7)	383 (4.2)	391 (3.9)	377 (4.8)	406 (4.0)
Argentina.....	398 (4.6)	379 (5.1)	415 (4.9)	388 (4.1)	394 (4.5)	383 (4.4)	401 (4.6)	397 (5.1)	404 (4.8)
Azerbaijan.....	362 (3.3)	350 (3.7)	374 (3.3)	431 (2.8)	435 (3.1)	427 (3.0)	373 (3.1)	370 (3.4)	377 (3.2)
Brazil.....	412 (2.7)	397 (2.9)	425 (2.8)	386 (2.4)	394 (2.4)	379 (2.6)	405 (2.4)	407 (2.6)	404 (2.6)
Bulgaria.....	429 (6.7)	400 (7.3)	461 (5.8)	428 (5.9)	426 (6.2)	430 (6.0)	439 (5.9)	430 (6.8)	450 (5.3)
Colombia.....	413 (3.7)	408 (4.5)	418 (4.0)	381 (3.2)	398 (4.0)	366 (3.3)	402 (3.6)	413 (4.3)	392 (3.7)
Croatia.....	476 (2.9)	452 (3.4)	503 (3.7)	460 (3.1)	465 (3.6)	454 (3.9)	486 (2.8)	482 (3.5)	491 (3.9)
Dubai (United Arab Emirates).....	459 (1.1)	435 (1.7)	485 (1.5)	453 (1.1)	454 (1.5)	451 (1.6)	466 (1.2)	453 (1.8)	480 (1.6)
Hong Kong-China.....	533 (2.1)	518 (3.3)	550 (2.8)	555 (2.7)	561 (4.2)	547 (3.4)	549 (2.8)	550 (3.8)	548 (3.4)
Indonesia.....	402 (3.7)	383 (3.8)	420 (3.9)	371 (3.7)	371 (4.1)	372 (4.0)	383 (3.8)	378 (4.2)	387 (4.0)
Jordan.....	405 (3.3)	377 (4.7)	434 (4.1)	387 (3.7)	386 (5.1)	387 (5.2)	415 (3.5)	398 (5.5)	433 (4.2)
Kazakhstan.....	390 (3.1)	369 (3.2)	412 (3.4)	405 (3.0)	405 (3.1)	405 (3.3)	400 (3.1)	396 (3.4)	405 (3.5)
Kyrgyzstan.....	314 (3.2)	287 (3.8)	340 (3.2)	331 (2.9)	328 (3.4)	334 (2.8)	330 (2.9)	318 (3.7)	340 (2.9)
Latvia.....	484 (3.0)	460 (3.4)	507 (3.1)	482 (3.1)	483 (3.5)	481 (3.4)	494 (3.1)	490 (3.7)	497 (3.2)
Liechtenstein.....	499 (2.8)	484 (4.5)	516 (4.5)	536 (4.1)	547 (5.2)	523 (5.9)	520 (3.4)	527 (5.0)	511 (5.1)
Lithuania.....	468 (2.4)	439 (2.8)	498 (2.6)	477 (2.6)	474 (3.1)	480 (3.0)	491 (2.9)	483 (3.5)	500 (2.9)
Macao-China.....	487 (0.9)	470 (1.3)	504 (1.2)	525 (0.9)	531 (1.3)	520 (1.4)	511 (1.0)	510 (1.3)	512 (1.2)
Montenegro.....	408 (1.7)	382 (2.1)	434 (2.1)	403 (2.0)	408 (2.2)	396 (2.4)	401 (2.0)	395 (2.4)	408 (2.6)
Panama.....	371 (6.5)	354 (7.0)	387 (7.3)	360 (5.2)	362 (5.6)	357 (6.1)	376 (5.7)	375 (6.4)	377 (6.6)
Peru.....	370 (4.0)	359 (4.2)	381 (4.9)	365 (4.0)	374 (4.6)	356 (4.4)	369 (3.5)	372 (3.7)	367 (4.4)
Qatar.....	372 (0.8)	347 (1.3)	397 (1.0)	368 (0.7)	366 (1.2)	371 (1.0)	379 (0.9)	366 (1.4)	393 (1.0)
Romania.....	424 (4.1)	403 (4.6)	445 (4.3)	427 (3.4)	429 (3.9)	425 (3.8)	428 (3.4)	423 (3.9)	433 (3.7)
Russian Federation.....	459 (3.3)	437 (3.6)	482 (3.4)	468 (3.3)	469 (3.7)	467 (3.5)	478 (3.3)	477 (3.7)	480 (3.5)
Serbia.....	442 (2.4)	422 (3.3)	462 (2.5)	442 (2.9)	448 (3.8)	437 (3.2)	443 (2.4)	442 (3.1)	443 (2.8)
Shanghai-China.....	556 (2.4)	536 (3.0)	576 (2.3)	600 (2.8)	599 (3.7)	601 (3.1)	575 (2.3)	574 (3.1)	575 (2.3)
Singapore.....	526 (1.1)	511 (1.7)	542 (1.5)	562 (1.4)	565 (1.9)	559 (2.0)	542 (1.4)	541 (1.8)	542 (1.8)
Chinese Taipei.....	495 (2.6)	477 (3.7)	514 (3.6)	543 (3.4)	546 (4.8)	541 (4.8)	520 (2.6)	520 (3.7)	521 (4.0)
Thailand.....	421 (2.6)	400 (3.3)	438 (3.1)	419 (3.2)	421 (3.9)	417 (3.8)	425 (3.0)	418 (3.8)	431 (3.4)
Trinidad and Tobago.....	416 (1.2)	387 (1.9)	445 (1.6)	414 (1.3)	410 (2.3)	418 (1.5)	410 (1.2)	401 (2.1)	419 (1.4)
Tunisia.....	404 (2.9)	387 (3.2)	418 (3.0)	371 (3.0)	378 (3.3)	366 (3.2)	401 (2.7)	401 (2.9)	400 (2.8)
Uruguay.....	426 (2.6)	404 (3.2)	445 (2.8)	427 (2.6)	433 (3.0)	421 (2.9)	427 (2.6)	427 (3.2)	428 (2.6)

<sup>1</sup>Illustrates how a country compares with the OECD area as a whole. Computed taking the OECD countries as a single entity, to which each country contributes in proportion to the number of 15-year-olds enrolled in its schools.

<sup>2</sup>Refers to the mean of the data values for all OECD countries, to which each country contributes equally, regardless of the absolute size of the student population of each country.

NOTE: PISA scores are reported on a scale from 0 to 1,000. Standard errors appear in parentheses.

SOURCE: Organization for Economic Cooperation and Development (OECD), Program for International Student Assessment (PISA), 2009, *PISA 2009 Results: What Students Know and Can Do—Student Performance in Reading, Mathematics and Science (Volume I)*. (This table was prepared December 2010.)

Table 417. Average reading scores and percentage distribution of 15-year-old students scoring at each reading literacy proficiency level, by country: 2009

Country or other jurisdiction	Average reading score	Percentage distribution at levels of reading proficiency <sup>1</sup>											
		Below level 1b	Level 1b	Level 1a	Level 2	Level 3	Level 4	Level 5	Level 6				
1	2	3	4	5	6	7	8	9	10				
OECD total <sup>2</sup> .....	492 (1.2)	1.1 (0.07)	4.8 (0.15)	13.8 (0.26)	24.4 (0.30)	27.9 (0.32)	19.9 (0.31)	7.0 (0.24)	1.0 (0.13)				
OECD average <sup>3</sup> .....	493 (0.5)	1.1 (0.05)	4.6 (0.08)	13.1 (0.13)	24.0 (0.16)	28.9 (0.16)	20.7 (0.16)	6.8 (0.10)	0.8 (0.03)				
Australia.....	515 (2.3)	1.0 (0.12)	3.3 (0.27)	10.0 (0.39)	20.4 (0.57)	28.5 (0.73)	24.1 (0.65)	10.7 (0.54)	2.1 (0.31)				
Austria.....	470 (2.9)	1.9 (0.42)	8.1 (0.81)	17.5 (0.99)	24.1 (0.96)	26.0 (0.92)	17.4 (0.85)	4.5 (0.45)	0.4 (0.13)				
Belgium.....	506 (2.3)	1.1 (0.25)	4.7 (0.46)	11.9 (0.64)	20.3 (0.67)	25.8 (0.85)	24.9 (0.75)	10.1 (0.51)	1.1 (0.19)				
Canada.....	524 (1.5)	0.4 (0.06)	2.0 (0.19)	7.9 (0.34)	20.2 (0.61)	30.0 (0.69)	26.8 (0.58)	11.0 (0.41)	1.8 (0.17)				
Chile.....	449 (3.1)	1.3 (0.24)	7.4 (0.77)	21.9 (0.95)	33.2 (1.11)	25.6 (1.15)	9.3 (0.71)	1.3 (0.25)	# (t)				
Czech Republic.....	478 (2.9)	0.8 (0.29)	5.5 (0.60)	16.8 (1.06)	27.4 (0.99)	27.0 (1.00)	17.4 (0.97)	4.7 (0.45)	0.4 (0.12)				
Denmark.....	495 (2.1)	0.4 (0.11)	3.1 (0.30)	11.7 (0.72)	26.0 (0.94)	33.1 (1.21)	20.9 (1.11)	4.4 (0.45)	0.3 (0.12)				
Estonia.....	501 (2.6)	0.3 (0.13)	2.4 (0.38)	10.6 (0.86)	25.6 (1.26)	33.8 (1.00)	21.2 (0.81)	5.4 (0.52)	0.6 (0.20)				
Finland.....	536 (2.3)	0.2 (0.07)	1.5 (0.20)	6.4 (0.44)	16.7 (0.62)	30.1 (0.85)	30.6 (0.88)	12.9 (0.74)	1.6 (0.24)				
France.....	496 (3.4)	2.3 (0.52)	5.6 (0.53)	11.8 (0.84)	21.1 (1.03)	27.2 (1.04)	22.4 (1.07)	8.5 (0.83)	1.1 (0.25)				
Germany.....	497 (2.7)	0.8 (0.23)	4.4 (0.46)	13.3 (0.79)	22.2 (0.87)	28.8 (1.09)	22.8 (0.88)	7.0 (0.57)	0.6 (0.15)				
Greece.....	483 (4.3)	1.4 (0.38)	5.6 (0.86)	14.3 (1.07)	25.6 (1.06)	29.3 (1.20)	18.2 (0.98)	5.0 (0.54)	0.6 (0.17)				
Hungary.....	494 (3.2)	0.6 (0.23)	4.7 (0.82)	12.3 (0.95)	23.8 (1.24)	31.0 (1.25)	21.6 (1.11)	5.8 (0.67)	0.3 (0.13)				
Iceland.....	500 (1.4)	1.1 (0.18)	4.2 (0.43)	11.5 (0.71)	22.2 (0.80)	30.6 (0.94)	21.9 (0.84)	7.5 (0.62)	1.0 (0.19)				
Ireland.....	496 (3.0)	1.5 (0.36)	3.9 (0.47)	11.8 (0.71)	23.3 (1.00)	30.6 (0.91)	21.9 (0.91)	6.3 (0.50)	0.7 (0.22)				
Israel.....	474 (3.6)	3.9 (0.66)	8.0 (0.66)	14.7 (0.63)	22.5 (0.96)	25.5 (0.95)	18.1 (0.73)	6.4 (0.54)	1.0 (0.16)				
Italy.....	486 (1.6)	1.4 (0.23)	5.2 (0.32)	14.4 (0.45)	24.0 (0.54)	28.9 (0.55)	20.2 (0.48)	5.4 (0.30)	0.4 (0.10)				
Japan.....	520 (3.5)	1.3 (0.36)	3.4 (0.49)	8.9 (0.66)	18.0 (0.84)	28.0 (0.88)	27.0 (0.95)	11.5 (0.71)	1.9 (0.36)				
Korea, Republic of.....	539 (3.5)	0.2 (0.15)	0.9 (0.30)	4.7 (0.63)	15.4 (1.01)	33.0 (1.23)	32.9 (1.42)	11.9 (0.96)	1.0 (0.20)				
Luxembourg.....	472 (1.3)	3.1 (0.27)	7.3 (0.45)	15.7 (0.59)	24.0 (0.70)	27.0 (0.65)	17.3 (0.61)	5.2 (0.43)	0.5 (0.15)				
Mexico.....	425 (2.0)	3.2 (0.34)	11.4 (0.48)	25.5 (0.56)	33.0 (0.57)	21.2 (0.59)	5.3 (0.39)	0.4 (0.07)	# (t)				
Netherlands.....	508 (5.1)	0.1 (0.05)	1.8 (0.31)	12.5 (1.36)	24.7 (1.53)	27.6 (1.24)	23.5 (1.66)	9.1 (1.00)	0.7 (0.22)				
New Zealand.....	521 (2.4)	0.9 (0.22)	3.2 (0.45)	10.2 (0.58)	19.3 (0.75)	25.8 (0.76)	24.8 (0.81)	12.9 (0.76)	2.9 (0.38)				
Norway.....	503 (2.6)	0.5 (0.14)	3.4 (0.39)	11.0 (0.66)	23.6 (0.84)	30.9 (0.86)	22.1 (1.16)	7.6 (0.87)	0.8 (0.20)				
Poland.....	500 (2.6)	0.6 (0.15)	3.1 (0.35)	11.3 (0.66)	24.5 (1.08)	31.0 (0.98)	22.3 (0.99)	6.5 (0.55)	0.7 (0.15)				
Portugal.....	489 (3.1)	0.6 (0.14)	4.0 (0.41)	13.0 (0.97)	26.4 (1.09)	31.6 (1.09)	19.6 (0.92)	4.6 (0.48)	0.2 (0.10)				
Slovak Republic.....	477 (2.5)	0.8 (0.28)	5.6 (0.62)	15.9 (0.83)	28.1 (1.04)	28.5 (1.14)	16.7 (0.79)	4.2 (0.48)	0.3 (0.11)				
Slovenia.....	483 (1.0)	0.8 (0.09)	5.2 (0.34)	15.2 (0.49)	25.6 (0.71)	29.2 (0.86)	19.3 (0.80)	4.3 (0.54)	0.3 (0.12)				
Spain.....	481 (2.0)	1.2 (0.18)	4.7 (0.39)	13.6 (0.64)	26.8 (0.84)	32.6 (0.95)	17.7 (0.68)	3.2 (0.29)	0.2 (0.08)				
Sweden.....	497 (2.9)	1.5 (0.25)	4.3 (0.38)	11.7 (0.71)	23.5 (0.99)	29.8 (0.98)	20.3 (0.92)	7.7 (0.59)	1.3 (0.25)				
Switzerland.....	501 (2.4)	0.7 (0.15)	4.1 (0.38)	12.1 (0.62)	22.7 (0.70)	29.7 (0.78)	22.6 (0.82)	7.4 (0.68)	0.7 (0.22)				
Turkey.....	464 (3.5)	0.8 (0.19)	5.6 (0.63)	18.1 (0.98)	32.2 (1.16)	29.1 (1.07)	12.4 (1.11)	1.8 (0.38)	# (t)				
United Kingdom.....	494 (2.3)	1.0 (0.20)	4.1 (0.35)	13.4 (0.64)	24.9 (0.72)	28.8 (0.84)	19.8 (0.79)	7.0 (0.47)	1.0 (0.19)				
United States.....	500 (3.7)	0.6 (0.13)	4.0 (0.45)	13.1 (0.84)	24.4 (0.86)	27.6 (0.83)	20.6 (0.90)	8.4 (0.75)	1.5 (0.42)				

See notes at end of table.

Table 417. Average reading scores and percentage distribution of 15-year-old students scoring at each reading literacy proficiency level, by country: 2009—Continued

		Percentage distribution at levels of reading proficiency <sup>1</sup>																
Country or other jurisdiction	Average reading score		Below level 1b		Level 1b		Level 1a		Level 2		Level 3		Level 4		Level 5		Level 6	
1	2		3		4		5		6		7		8		9		10	
Reporting partner countries																		
Albania.....	385	(4.0)	11.3	(0.92)	18.7	(1.32)	26.6	(1.18)	25.6	(1.33)	14.4	(1.18)	3.1	(0.48)	0.2	(0.11)	‡	(†)
Argentina .....	398	(4.6)	10.8	(1.10)	15.8	(1.25)	25.0	(1.30)	25.4	(1.22)	16.0	(1.04)	6.0	(0.83)	0.9	(0.23)	0.1	(0.05)
Azerbaijan .....	362	(3.3)	9.7	(1.05)	26.1	(1.14)	36.9	(1.21)	21.5	(1.17)	5.3	(0.77)	0.5	(0.15)	#	(†)	‡	(†)
Brazil.....	412	(2.7)	5.0	(0.38)	16.0	(0.67)	28.6	(0.81)	27.1	(0.78)	15.9	(0.86)	6.1	(0.53)	1.2	(0.21)	0.1	(0.05)
Bulgaria.....	429	(6.7)	8.0	(1.09)	12.9	(1.36)	20.1	(1.35)	23.4	(1.15)	21.8	(1.43)	11.0	(1.14)	2.6	(0.50)	0.2	(0.08)
Colombia.....	413	(3.7)	4.2	(0.71)	13.9	(0.99)	29.0	(1.22)	30.6	(1.11)	17.1	(1.03)	4.6	(0.48)	0.5	(0.16)	#	(†)
Croatia .....	476	(2.9)	1.0	(0.21)	5.0	(0.45)	16.5	(0.97)	27.4	(1.02)	30.6	(1.21)	16.4	(0.97)	3.1	(0.40)	0.1	(0.10)
Dubai (United Arab Emirates).....	459	(1.1)	3.7	(0.23)	9.4	(0.45)	17.9	(0.50)	25.4	(0.71)	23.5	(0.77)	14.8	(0.71)	4.8	(0.49)	0.5	(0.18)
Hong Kong-China .....	533	(2.1)	0.2	(0.08)	1.5	(0.30)	6.6	(0.59)	16.1	(0.75)	31.4	(0.90)	31.8	(0.89)	11.2	(0.70)	1.2	(0.26)
Indonesia .....	402	(3.7)	1.7	(0.38)	14.1	(1.31)	37.6	(1.64)	34.3	(1.38)	11.2	(1.35)	1.0	(0.34)	‡	(†)	‡	(†)
Jordan.....	405	(3.3)	6.9	(0.62)	13.6	(0.78)	27.6	(0.96)	31.8	(0.98)	16.5	(0.99)	3.4	(0.44)	0.2	(0.09)	‡	(†)
Kazakhstan .....	390	(3.1)	7.5	(0.65)	20.4	(0.99)	30.7	(0.88)	24.1	(0.93)	13.1	(0.87)	3.7	(0.49)	0.4	(0.12)	‡	(†)
Kyrgyzstan.....	314	(3.2)	29.8	(1.25)	29.7	(0.91)	23.8	(0.94)	11.5	(0.83)	4.2	(0.57)	1.0	(0.28)	0.1	(0.06)	‡	(†)
Latvia .....	484	(3.0)	0.4	(0.15)	3.3	(0.57)	13.9	(1.00)	28.8	(1.45)	33.5	(1.21)	17.2	(1.01)	2.9	(0.44)	‡	(†)
Liechtenstein.....	499	(2.8)	‡	(†)	2.8	(1.15)	12.8	(1.83)	24.0	(2.85)	31.1	(2.76)	24.6	(2.34)	4.2	(1.39)	‡	(†)
Lithuania.....	468	(2.4)	0.9	(0.26)	5.5	(0.56)	17.9	(0.87)	30.0	(1.03)	28.6	(0.94)	14.1	(0.80)	2.8	(0.38)	0.1	(0.06)
Macao-China .....	487	(0.9)	0.3	(0.09)	2.6	(0.25)	12.0	(0.43)	30.6	(0.63)	34.8	(0.67)	16.9	(0.50)	2.8	(0.25)	0.1	(0.05)
Montenegro.....	408	(1.7)	5.9	(0.53)	15.8	(0.80)	27.8	(0.81)	28.0	(0.88)	16.8	(0.85)	5.0	(0.46)	0.6	(0.17)	‡	(†)
Panama.....	371	(6.5)	13.3	(1.83)	23.1	(1.78)	28.9	(1.79)	20.7	(1.43)	10.1	(1.36)	3.4	(0.68)	0.5	(0.23)	‡	(†)
Peru.....	370	(4.0)	14.1	(0.93)	22.0	(1.01)	28.7	(1.10)	22.1	(0.94)	10.1	(0.86)	2.6	(0.51)	0.4	(0.21)	#	(†)
Qatar.....	372	(0.8)	17.8	(0.33)	22.4	(0.48)	23.2	(0.63)	18.3	(0.44)	11.1	(0.48)	5.4	(0.27)	1.5	(0.16)	0.2	(0.07)
Romania .....	424	(4.1)	4.1	(0.69)	12.7	(1.08)	23.6	(1.25)	31.6	(1.31)	21.2	(1.31)	6.1	(0.71)	0.7	(0.17)	‡	(†)
Russian Federation.....	459	(3.3)	1.6	(0.35)	6.8	(0.58)	19.0	(0.79)	31.6	(0.97)	26.8	(0.88)	11.1	(0.66)	2.8	(0.43)	0.3	(0.11)
Serbia .....	442	(2.4)	2.0	(0.36)	8.8	(0.67)	22.1	(0.87)	33.2	(1.02)	25.3	(0.96)	7.9	(0.56)	0.8	(0.16)	#	(†)
Shanghai-China.....	556	(2.4)	0.1	(0.04)	0.6	(0.14)	3.4	(0.47)	13.3	(0.86)	28.5	(1.16)	34.7	(1.04)	17.0	(0.99)	2.4	(0.45)
Singapore .....	526	(1.1)	0.4	(0.11)	2.7	(0.26)	9.3	(0.50)	18.5	(0.60)	27.6	(0.81)	25.7	(0.73)	13.1	(0.54)	2.6	(0.34)
Chinese Taipei .....	495	(2.6)	0.7	(0.18)	3.5	(0.35)	11.4	(0.63)	24.6	(0.80)	33.5	(1.09)	21.0	(0.97)	4.8	(0.76)	0.4	(0.20)
Thailand.....	421	(2.6)	1.2	(0.29)	9.9	(0.82)	31.7	(1.12)	36.8	(1.15)	16.7	(0.82)	3.3	(0.52)	0.3	(0.15)	‡	(†)
Trinidad and Tobago.....	416	(1.2)	9.6	(0.51)	14.2	(0.61)	21.0	(0.81)	25.0	(0.94)	19.0	(0.86)	8.9	(0.51)	2.1	(0.27)	0.2	(0.07)
Tunisia.....	404	(2.9)	5.5	(0.52)	15.0	(0.78)	29.6	(1.10)	31.5	(1.22)	15.1	(1.04)	3.1	(0.52)	0.2	(0.12)	‡	(†)
Uruguay.....	426	(2.6)	5.5	(0.58)	12.5	(0.68)	23.9	(0.70)	28.0	(0.73)	20.3	(0.73)	8.1	(0.51)	1.7	(0.26)	0.1	(0.06)

†Not applicable.

#Rounds to zero.

‡Reporting standards not met.

<sup>1</sup>Level 1b: Able to locate a single piece of explicitly stated information in a prominent position in a short, syntactically simple text and make simple connections between adjacent pieces of information. Level 1a: Able to locate explicitly stated information, recognize the main theme in a text about a familiar topic, and make a simple connection between information in the text and common, everyday knowledge. Level 2: Able to locate information which may need to be inferred and may need to meet several conditions, recognize the main idea in a text, understand relationships, construe meaning within part of the text when the information is not prominent, and make comparisons or connections between the text and outside knowledge by drawing on personal experience and attitudes. Level 3: Able to recognize the relationship between several pieces of information that must meet multiple conditions; integrate parts of a text in order to identify a main idea, understand a relationship, or construe the meaning of a word or phrase; compare, contrast or categorize where the required information is not prominent or there is much competing information or other obstacles in the text; make connections, comparisons, and explanations; evaluate a feature of the text; and demonstrate an understanding of the text by relating it to everyday knowledge or by drawing on less common knowledge. Level 4: Able to locate and organize embedded information, interpret the meaning of language by taking into account the text as a whole, understand and apply categories in an unfamiliar context, use formal knowledge to hypothesize about or critically evaluate a text, and demonstrate an understanding of long or complex

texts with unfamiliar form or content. Level 5: Able to locate and organize deeply embedded information, infer relevant information in the text, perform critical evaluation or form a hypothesis by drawing on specialized knowledge, and fully understand texts with unfamiliar form or content. Level 6: Able to make multiple inferences, comparisons, and contrasts that are both detailed and precise; demonstrate full understanding of texts and integrate information from more than one text; deal with unfamiliar ideas in the presence of prominent competing information; generate abstract categories for interpretation; hypothesize about or critically evaluate a complex text on an unfamiliar topic, taking into account multiple criteria or perspectives; and apply sophisticated understandings from beyond the text.

<sup>2</sup>Illustrates how a country compares with the OECD area as a whole. Computed by taking the OECD countries as a single entity to which each country contributes in proportion to the number of 15-year-olds enrolled in its schools.

<sup>3</sup>Refers to the mean of the data values for all OECD countries, to which each country contributes equally, regardless of the absolute size of the student population of each country.

NOTE: PISA scores are reported on a scale from 0 to 1,000. Detail may not sum to totals because of rounding. Standard errors appear in parentheses.

SOURCE: Organization for Economic Cooperation and Development (OECD), Program for International Student Assessment (PISA), 2009, *PISA 2009 Results: What Students Know and Can Do—Student Performance in Reading, Mathematics, and Science (Volume I)*. (This table was prepared December 2010.)

Table 418. Average mathematics scores and percentage distribution of 15-year-old students scoring at each mathematics literacy proficiency level, by country: 2009

		Percentage distribution at levels of mathematics proficiency <sup>1</sup>													
Country or other jurisdiction	Average mathematics score	Below level 1		Level 1		Level 2		Level 3		Level 4		Level 5		Level 6	
1	2	3		4		5		6		7		8		9	
OECD total <sup>2</sup> .....	488 (1.2)	9.3 (0.25)	15.5 (0.33)	22.7 (0.31)	23.5 (0.24)	17.3 (0.30)	8.9 (0.24)	2.8 (0.16)							
OECD average <sup>3</sup> .....	496 (0.5)	8.0 (0.12)	14.0 (0.13)	22.0 (0.15)	24.3 (0.17)	18.9 (0.15)	9.6 (0.12)	3.1 (0.08)							
Australia.....	514 (2.5)	5.1 (0.33)	10.8 (0.53)	20.3 (0.61)	25.8 (0.54)	21.7 (0.56)	11.9 (0.54)	4.5 (0.56)							
Austria.....	496 (2.7)	7.8 (0.75)	15.4 (0.90)	21.2 (0.88)	23.0 (0.89)	19.6 (0.93)	9.9 (0.70)	3.0 (0.35)							
Belgium.....	515 (2.3)	7.7 (0.63)	11.3 (0.54)	17.5 (0.69)	21.8 (0.73)	21.3 (0.76)	14.6 (0.56)	5.8 (0.44)							
Canada.....	527 (1.6)	3.1 (0.25)	8.3 (0.42)	18.8 (0.48)	26.5 (0.86)	25.0 (0.68)	13.9 (0.45)	4.4 (0.27)							
Chile.....	421 (3.1)	21.7 (1.19)	29.4 (1.09)	27.3 (0.98)	14.8 (0.96)	5.6 (0.59)	1.2 (0.29)	0.1 (0.09)							
Czech Republic.....	493 (2.8)	7.0 (0.83)	15.3 (0.82)	24.2 (1.00)	24.4 (1.09)	17.4 (0.81)	8.5 (0.64)	3.2 (0.39)							
Denmark.....	503 (2.6)	4.9 (0.49)	12.1 (0.80)	23.0 (0.91)	27.4 (1.06)	21.0 (0.89)	9.1 (0.83)	2.5 (0.47)							
Estonia.....	512 (2.6)	3.0 (0.42)	9.6 (0.68)	22.7 (0.86)	29.9 (0.94)	22.7 (0.81)	9.8 (0.79)	2.2 (0.43)							
Finland.....	541 (2.2)	1.7 (0.25)	6.1 (0.45)	15.6 (0.83)	27.1 (0.95)	27.8 (0.87)	16.7 (0.79)	4.9 (0.53)							
France.....	497 (3.1)	9.5 (0.88)	13.1 (1.07)	19.9 (0.94)	23.8 (1.12)	20.1 (1.01)	10.4 (0.72)	3.3 (0.48)							
Germany.....	513 (2.9)	6.4 (0.63)	12.2 (0.72)	18.8 (0.88)	23.1 (0.87)	21.7 (0.92)	13.2 (0.87)	4.6 (0.46)							
Greece.....	466 (3.9)	11.3 (1.22)	19.1 (1.01)	26.4 (1.25)	24.0 (1.05)	13.6 (0.78)	4.9 (0.56)	0.8 (0.16)							
Hungary.....	490 (3.5)	8.1 (0.99)	14.2 (0.95)	23.2 (1.18)	26.0 (1.24)	18.4 (1.02)	8.1 (0.79)	2.0 (0.45)							
Iceland.....	507 (1.4)	5.7 (0.43)	11.3 (0.52)	21.3 (0.88)	27.3 (0.90)	20.9 (0.90)	10.5 (0.67)	3.1 (0.40)							
Ireland.....	487 (2.5)	7.3 (0.63)	13.6 (0.74)	24.5 (1.09)	28.6 (1.20)	19.4 (0.92)	5.8 (0.59)	0.9 (0.20)							
Israel.....	447 (3.3)	20.5 (1.17)	18.9 (0.90)	22.5 (0.92)	20.1 (0.87)	12.0 (0.71)	4.7 (0.51)	1.2 (0.28)							
Italy.....	483 (1.9)	9.1 (0.44)	15.9 (0.48)	24.2 (0.59)	24.6 (0.48)	17.3 (0.57)	7.4 (0.40)	1.6 (0.15)							
Japan.....	529 (3.3)	4.0 (0.57)	8.5 (0.65)	17.4 (0.90)	25.7 (1.08)	23.5 (1.04)	14.7 (0.88)	6.2 (0.78)							
Korea, Republic of.....	546 (4.0)	1.9 (0.49)	6.2 (0.72)	15.6 (0.99)	24.4 (1.21)	26.3 (1.30)	17.7 (0.97)	7.8 (0.96)							
Luxembourg.....	489 (1.2)	9.6 (0.53)	14.4 (0.57)	22.7 (0.72)	23.1 (0.98)	19.0 (0.82)	9.0 (0.61)	2.3 (0.36)							
Mexico.....	419 (1.8)	21.9 (0.79)	28.9 (0.59)	28.3 (0.61)	15.6 (0.56)	4.7 (0.36)	0.7 (0.11)	# (†)							
Netherlands.....	526 (4.7)	2.8 (0.59)	10.6 (1.33)	19.0 (1.37)	23.9 (0.98)	23.9 (1.25)	15.4 (1.18)	4.4 (0.52)							
New Zealand.....	519 (2.3)	5.3 (0.53)	10.2 (0.54)	19.1 (0.84)	24.4 (0.88)	22.2 (0.98)	13.6 (0.74)	5.3 (0.45)							
Norway.....	498 (2.4)	5.5 (0.50)	12.7 (0.83)	24.3 (0.93)	27.5 (1.02)	19.7 (0.86)	8.4 (0.58)	1.8 (0.34)							
Poland.....	495 (2.8)	6.1 (0.54)	14.4 (0.75)	24.0 (0.88)	26.1 (0.77)	19.0 (0.85)	8.2 (0.61)	2.2 (0.41)							
Portugal.....	487 (2.9)	8.4 (0.62)	15.3 (0.83)	23.9 (0.93)	25.0 (1.03)	17.7 (0.79)	7.7 (0.63)	1.9 (0.35)							
Slovak Republic.....	497 (3.1)	7.0 (0.68)	14.0 (0.79)	23.2 (1.08)	25.0 (1.54)	18.1 (1.24)	9.1 (0.69)	3.6 (0.63)							
Slovenia.....	501 (1.2)	6.5 (0.40)	13.8 (0.60)	22.5 (0.67)	23.9 (0.69)	19.0 (0.79)	10.3 (0.57)	3.9 (0.36)							
Spain.....	483 (2.1)	9.1 (0.48)	14.6 (0.58)	23.9 (0.58)	26.6 (0.63)	17.7 (0.62)	6.7 (0.39)	1.3 (0.16)							
Sweden.....	494 (2.9)	7.5 (0.65)	13.6 (0.72)	23.4 (0.81)	25.2 (0.75)	19.0 (0.88)	8.9 (0.64)	2.5 (0.35)							
Switzerland.....	534 (3.3)	4.5 (0.40)	9.0 (0.65)	15.9 (0.63)	23.0 (0.92)	23.5 (0.80)	16.3 (0.78)	7.8 (0.75)							
Turkey.....	445 (4.4)	17.7 (1.35)	24.5 (1.11)	25.2 (1.18)	17.4 (1.07)	9.6 (0.90)	4.4 (0.91)	1.3 (0.46)							
United Kingdom.....	492 (2.4)	6.2 (0.46)	14.0 (0.71)	24.9 (0.88)	27.2 (1.10)	17.9 (0.96)	8.1 (0.63)	1.8 (0.27)							
United States.....	487 (3.6)	8.1 (0.72)	15.3 (0.98)	24.4 (0.97)	25.2 (0.95)	17.1 (0.93)	8.0 (0.85)	1.9 (0.46)							

See notes at end of table.

Table 418. Average mathematics scores and percentage distribution of 15-year-old students scoring at each mathematics literacy proficiency level, by country: 2009—Continued

		Percentage distribution at levels of mathematics proficiency <sup>1</sup>													
Country or other jurisdiction	Average mathematics score	Below level 1		Level 1		Level 2		Level 3		Level 4		Level 5		Level 6	
1	2	3		4		5		6		7		8		9	
Reporting partner countries															
Albania.....	377 (4.0)	40.5 (1.76)	27.2 (1.22)	20.2 (1.25)	9.1 (0.85)	2.6 (0.58)	0.4 (0.16)	# (†)							
Argentina .....	388 (4.1)	37.2 (1.75)	26.4 (1.11)	20.8 (1.09)	10.9 (0.95)	3.9 (0.66)	0.8 (0.26)	0.1 (0.07)							
Azerbaijan .....	431 (2.8)	11.5 (0.96)	33.8 (1.24)	35.3 (1.29)	14.8 (1.04)	3.6 (0.51)	0.9 (0.34)	0.2 (0.12)							
Brazil .....	386 (2.4)	38.1 (1.25)	31.0 (0.91)	19.0 (0.75)	8.1 (0.64)	3.0 (0.32)	0.7 (0.19)	0.1 (0.05)							
Bulgaria.....	428 (5.9)	24.5 (1.91)	22.7 (1.08)	23.4 (1.11)	17.5 (1.36)	8.2 (0.90)	3.0 (0.70)	0.8 (0.36)							
Colombia.....	381 (3.2)	38.8 (2.02)	31.6 (1.30)	20.3 (1.28)	7.5 (0.66)	1.6 (0.33)	0.1 (0.06)	# (†)							
Croatia .....	460 (3.1)	12.4 (0.85)	20.8 (0.94)	26.7 (0.83)	22.7 (0.97)	12.5 (0.84)	4.3 (0.51)	0.6 (0.22)							
Dubai (United Arab Emirates) .....	453 (1.1)	17.6 (0.49)	21.2 (0.59)	23.0 (0.79)	19.6 (0.63)	12.1 (0.55)	5.3 (0.39)	1.2 (0.19)							
Hong Kong-China .....	555 (2.7)	2.6 (0.40)	6.2 (0.53)	13.2 (0.67)	21.9 (0.84)	25.4 (0.91)	19.9 (0.82)	10.8 (0.78)							
Indonesia .....	371 (3.7)	43.5 (2.21)	33.1 (1.54)	16.9 (1.14)	5.4 (0.91)	0.9 (0.32)	0.1 (0.05)	† (†)							
Jordan.....	387 (3.7)	35.4 (1.67)	29.9 (1.20)	22.9 (1.03)	9.5 (0.94)	2.1 (0.44)	0.3 (0.17)	# (†)							
Kazakhstan .....	405 (3.0)	29.6 (1.31)	29.6 (0.94)	23.5 (0.88)	12.0 (0.80)	4.2 (0.48)	0.9 (0.29)	0.3 (0.19)							
Kyrgyzstan .....	331 (2.9)	64.8 (1.43)	21.8 (0.98)	9.3 (0.76)	3.3 (0.51)	0.7 (0.24)	# (†)	† (†)							
Latvia.....	482 (3.1)	5.8 (0.69)	16.7 (1.15)	27.2 (1.04)	28.2 (1.08)	16.4 (1.01)	5.1 (0.50)	0.6 (0.15)							
Liechtenstein.....	536 (4.1)	3.0 (0.99)	6.5 (1.61)	15.0 (2.18)	26.2 (2.26)	31.2 (3.25)	13.0 (2.45)	5.0 (1.42)							
Lithuania.....	477 (2.6)	9.0 (0.79)	17.3 (0.85)	26.1 (1.10)	25.3 (0.98)	15.4 (0.77)	5.7 (0.56)	1.3 (0.26)							
Macao-China .....	525 (0.9)	2.8 (0.25)	8.2 (0.46)	19.6 (0.58)	27.8 (0.90)	24.5 (0.78)	12.8 (0.43)	4.3 (0.28)							
Montenegro.....	403 (2.0)	29.6 (1.07)	28.8 (1.00)	24.6 (1.04)	12.2 (0.68)	3.8 (0.35)	0.9 (0.20)	0.1 (0.05)							
Panama.....	360 (5.2)	51.5 (2.90)	27.3 (1.72)	13.9 (1.51)	5.6 (0.92)	1.4 (0.36)	0.4 (0.22)	# (†)							
Peru.....	365 (4.0)	47.6 (1.81)	25.9 (1.16)	16.9 (1.26)	6.8 (0.70)	2.1 (0.43)	0.5 (0.18)	0.1 (0.06)							
Qatar.....	368 (0.7)	51.1 (0.56)	22.7 (0.64)	13.1 (0.48)	7.2 (0.35)	4.2 (0.25)	1.5 (0.17)	0.3 (0.08)							
Romania .....	427 (3.4)	19.5 (1.42)	27.5 (1.15)	28.6 (1.39)	17.3 (1.02)	5.9 (0.77)	1.2 (0.33)	0.1 (0.08)							
Russian Federation .....	468 (3.3)	9.5 (0.92)	19.0 (1.16)	28.5 (1.03)	25.0 (1.00)	12.7 (0.87)	4.3 (0.57)	1.0 (0.27)							
Serbia.....	442 (2.9)	17.6 (1.04)	22.9 (0.84)	26.5 (1.07)	19.9 (0.97)	9.5 (0.62)	2.9 (0.41)	0.6 (0.18)							
Shanghai-China .....	600 (2.8)	1.4 (0.26)	3.4 (0.38)	8.7 (0.63)	15.2 (0.79)	20.8 (0.79)	23.8 (0.80)	26.6 (1.19)							
Singapore .....	562 (1.4)	3.0 (0.26)	6.8 (0.57)	13.1 (0.56)	18.7 (0.80)	22.8 (0.62)	20.0 (0.87)	15.6 (0.63)							
Chinese Taipei .....	543 (3.4)	4.2 (0.48)	8.6 (0.65)	15.5 (0.68)	20.9 (0.88)	22.2 (0.86)	17.2 (0.92)	11.3 (1.16)							
Thailand.....	419 (3.2)	22.1 (1.37)	30.4 (0.92)	27.3 (1.09)	14.0 (0.85)	4.9 (0.57)	1.0 (0.27)	0.3 (0.22)							
Trinidad and Tobago.....	414 (1.3)	30.1 (0.79)	23.1 (0.97)	21.2 (0.89)	15.4 (0.63)	7.7 (0.44)	2.1 (0.25)	0.3 (0.15)							
Tunisia.....	371 (3.0)	43.4 (1.66)	30.2 (1.46)	18.7 (0.90)	6.1 (0.69)	1.3 (0.44)	0.2 (0.16)	# (†)							
Uruguay .....	427 (2.6)	22.9 (1.16)	24.6 (1.08)	25.1 (0.99)	17.0 (0.73)	7.9 (0.55)	2.1 (0.34)	0.3 (0.12)							

†Not applicable.

#Rounds to zero.

‡Reporting standards not met.

<sup>1</sup>Level 1: Able to answer questions involving familiar contexts where all relevant information is present and the questions are clearly defined. Level 2: Able to interpret and recognize situations in contexts that require no more than direct inference; extract relevant information from a single source; employ basic algorithms, formulae, procedures, or conventions; and employ direct reasoning for literal interpretations of results. Level 3: Able to execute clearly described procedures; select and apply simple problem-solving strategies; interpret and use representations based on different information sources; and develop short communications reporting one's interpretations, results, and reasoning. Level 4: Able to work effectively with explicit models for complex concrete situations that may involve constraints or call for making assumptions, select and integrate different representations, reason with some insight, and construct and communicate explanations and arguments based on one's interpretations and actions. Level 5: Able to develop and work with models for complex situations; select and evaluate appropriate problem-solving strategies; work strategically using broad, well-developed thinking and reasoning skills; and communicate one's interpretations and reasoning. Level 6: Able to concep-

tualize, generalize, and utilize information; link different information sources and representations; perform advanced mathematical thinking and reasoning; develop new approaches and strategies for attacking novel situations; and formulate and precisely communicate actions and reflections regarding findings and interpretations.

<sup>2</sup>Illustrates how a country compares with the OECD area as a whole. Computed by taking the OECD countries as a single entity to which each country contributes in proportion to the number of 15-year-olds enrolled in its schools.

<sup>3</sup>Refers to the mean of the data values for all OECD countries, to which each country contributes equally, regardless of the absolute size of the student population of each country.

NOTE: PISA scores are reported on a scale from 0 to 1,000. Detail may not sum to totals because of rounding. Standard errors appear in parentheses.

SOURCE: Organization for Economic Cooperation and Development (OECD), Program for International Student Assessment (PISA), 2009, *PISA 2009 Results: What Students Know and Can Do—Student Performance in Reading, Mathematics and Science (Volume I)*. (This table was prepared December 2010.)

Table 419. Average science scores and percentage distribution of 15-year-old students scoring at each science literacy proficiency level, by country: 2009

		Percentage distribution at levels of science proficiency <sup>1</sup>													
Country or other jurisdiction	Average science score	Below Level 1		Level 1		Level 2		Level 3		Level 4		Level 5		Level 6	
1	2	3		4		5		6		7		8		9	
OECD total <sup>2</sup> .....	496 (1.2)	5.4 (0.19)	14.6 (0.32)	24.8 (0.28)	27.1 (0.25)	19.6 (0.32)	7.3 (0.25)	1.1 (0.10)							
OECD average <sup>3</sup> .....	501 (0.5)	5.0 (0.10)	13.0 (0.14)	24.4 (0.16)	28.6 (0.17)	20.6 (0.16)	7.4 (0.10)	1.1 (0.04)							
Australia.....	527 (2.5)	3.4 (0.27)	9.2 (0.48)	20.0 (0.59)	28.4 (0.65)	24.5 (0.66)	11.5 (0.58)	3.1 (0.50)							
Austria.....	494 (3.2)	6.7 (0.83)	14.3 (0.99)	23.8 (1.00)	26.6 (1.04)	20.6 (1.03)	7.1 (0.61)	1.0 (0.19)							
Belgium.....	507 (2.5)	6.4 (0.57)	11.7 (0.61)	20.7 (0.65)	27.2 (0.76)	24.0 (0.82)	9.0 (0.59)	1.1 (0.19)							
Canada.....	529 (1.6)	2.0 (0.21)	7.5 (0.37)	20.9 (0.49)	31.2 (0.62)	26.2 (0.65)	10.5 (0.45)	1.6 (0.15)							
Chile.....	447 (2.9)	8.4 (0.83)	23.9 (1.07)	35.2 (0.94)	23.6 (1.07)	7.9 (0.69)	1.1 (0.22)	# (†)							
Czech Republic.....	500 (3.0)	4.7 (0.57)	12.6 (0.90)	25.6 (0.97)	28.8 (1.25)	19.9 (0.87)	7.2 (0.58)	1.2 (0.22)							
Denmark.....	499 (2.5)	4.1 (0.42)	12.5 (0.65)	26.0 (0.77)	30.6 (1.07)	20.1 (0.85)	5.9 (0.55)	0.9 (0.23)							
Estonia.....	528 (2.7)	1.3 (0.31)	7.0 (0.72)	21.3 (1.07)	34.3 (1.10)	25.7 (1.07)	9.0 (0.63)	1.4 (0.26)							
Finland.....	554 (2.3)	1.1 (0.19)	4.9 (0.41)	15.3 (0.73)	28.8 (0.95)	31.2 (1.08)	15.4 (0.74)	3.3 (0.34)							
France.....	498 (3.6)	7.1 (0.82)	12.2 (0.83)	22.1 (1.25)	28.8 (1.32)	21.7 (1.02)	7.3 (0.70)	0.8 (0.22)							
Germany.....	520 (2.8)	4.1 (0.51)	10.7 (0.81)	20.1 (0.86)	27.3 (1.08)	25.0 (1.18)	10.9 (0.68)	1.9 (0.29)							
Greece.....	470 (4.0)	7.2 (1.07)	18.1 (1.04)	29.8 (0.96)	27.9 (1.20)	14.0 (0.95)	2.8 (0.31)	0.3 (0.11)							
Hungary.....	503 (3.1)	3.8 (0.93)	10.4 (0.86)	25.5 (1.13)	33.2 (1.32)	21.8 (1.19)	5.1 (0.55)	0.3 (0.13)							
Iceland.....	496 (1.4)	5.5 (0.48)	12.5 (0.63)	25.8 (0.75)	30.4 (0.94)	18.8 (0.84)	6.1 (0.43)	0.8 (0.19)							
Ireland.....	508 (3.3)	4.4 (0.69)	10.7 (1.01)	23.3 (1.17)	29.9 (0.99)	22.9 (0.95)	7.5 (0.68)	1.2 (0.23)							
Israel.....	455 (3.1)	13.9 (1.06)	19.2 (0.72)	26.0 (1.04)	24.1 (0.76)	12.8 (0.72)	3.5 (0.36)	0.5 (0.13)							
Italy.....	489 (1.8)	6.1 (0.39)	14.5 (0.50)	25.5 (0.63)	29.5 (0.54)	18.6 (0.53)	5.3 (0.29)	0.5 (0.07)							
Japan.....	539 (3.4)	3.2 (0.52)	7.5 (0.68)	16.3 (0.87)	26.6 (0.83)	29.5 (0.98)	14.4 (0.73)	2.6 (0.39)							
Korea, Republic of.....	538 (3.4)	1.1 (0.32)	5.2 (0.68)	18.5 (1.15)	33.1 (1.13)	30.4 (1.14)	10.5 (0.90)	1.1 (0.31)							
Luxembourg.....	484 (1.2)	8.4 (0.52)	15.3 (0.88)	24.3 (0.69)	27.1 (0.87)	18.2 (0.91)	6.0 (0.49)	0.7 (0.12)							
Mexico.....	416 (1.8)	14.5 (0.60)	32.8 (0.64)	33.6 (0.60)	15.8 (0.61)	3.1 (0.27)	0.2 (0.05)	# (†)							
Netherlands.....	522 (5.4)	2.6 (0.53)	10.6 (1.33)	21.8 (1.53)	26.9 (1.07)	25.3 (1.69)	11.2 (1.10)	1.5 (0.30)							
New Zealand.....	532 (2.6)	4.0 (0.53)	9.4 (0.52)	18.1 (1.01)	25.8 (0.88)	25.1 (0.74)	14.0 (0.72)	3.6 (0.36)							
Norway.....	500 (2.6)	3.8 (0.48)	11.9 (0.92)	26.6 (0.95)	31.1 (0.71)	20.1 (0.82)	5.9 (0.65)	0.5 (0.16)							
Poland.....	508 (2.4)	2.3 (0.33)	10.9 (0.69)	26.1 (0.80)	32.1 (0.81)	21.2 (0.97)	6.8 (0.49)	0.8 (0.19)							
Portugal.....	493 (2.9)	3.0 (0.35)	13.5 (0.92)	28.9 (1.08)	32.3 (1.08)	18.1 (1.00)	3.9 (0.51)	0.3 (0.13)							
Slovak Republic.....	490 (3.0)	5.0 (0.58)	14.2 (0.89)	27.6 (1.03)	29.2 (0.95)	17.7 (0.85)	5.6 (0.53)	0.7 (0.20)							
Slovenia.....	512 (1.1)	3.1 (0.22)	11.7 (0.45)	23.7 (0.66)	28.7 (1.05)	23.0 (0.72)	8.7 (0.61)	1.2 (0.27)							
Spain.....	488 (2.1)	4.6 (0.37)	13.6 (0.75)	27.9 (0.67)	32.3 (0.69)	17.6 (0.57)	3.7 (0.26)	0.2 (0.05)							
Sweden.....	495 (2.7)	5.8 (0.51)	13.4 (0.75)	25.6 (0.80)	28.4 (0.84)	18.7 (0.86)	7.1 (0.56)	1.0 (0.22)							
Switzerland.....	517 (2.8)	3.5 (0.31)	10.6 (0.58)	21.3 (1.09)	29.8 (1.02)	24.1 (1.03)	9.2 (0.73)	1.5 (0.23)							
Turkey.....	454 (3.6)	6.9 (0.81)	23.0 (1.13)	34.5 (1.16)	25.2 (1.24)	9.1 (1.13)	1.1 (0.29)	# (†)							
United Kingdom.....	514 (2.5)	3.8 (0.34)	11.2 (0.68)	22.7 (0.73)	28.8 (0.97)	22.2 (0.83)	9.5 (0.61)	1.9 (0.25)							
United States.....	502 (3.6)	4.2 (0.54)	13.9 (0.93)	25.0 (0.87)	27.5 (0.80)	20.1 (0.94)	7.9 (0.78)	1.3 (0.28)							

See notes at end of table.

Table 419. Average science scores and percentage distribution of 15-year-old students scoring at each science literacy proficiency level, by country: 2009—Continued

		Percentage distribution at levels of science proficiency <sup>1</sup>													
Country or other jurisdiction	Average science score	Below Level 1		Level 1		Level 2		Level 3		Level 4		Level 5		Level 6	
1	2	3		4		5		6		7		8		9	
<b>Reporting partner countries</b>															
Albania.....	391 (3.9)	26.3 (1.55)	31.0 (1.28)	27.7 (1.24)	12.9 (1.34)	2.0 (0.38)	0.1 (0.06)	‡ (†)							
Argentina .....	401 (4.6)	25.2 (1.70)	27.2 (1.37)	26.7 (1.20)	15.4 (1.12)	4.8 (0.69)	0.6 (0.18)	# (†)							
Azerbaijan .....	373 (3.1)	31.5 (1.68)	38.5 (1.13)	22.4 (1.07)	6.7 (0.76)	0.8 (0.22)	# (†)	‡ (†)							
Brazil .....	405 (2.4)	19.7 (0.90)	34.5 (0.99)	28.8 (0.90)	12.6 (0.81)	3.9 (0.38)	0.6 (0.11)	# (†)							
Bulgaria.....	439 (5.9)	16.5 (1.63)	22.3 (1.55)	26.6 (1.31)	21.0 (1.36)	10.9 (1.01)	2.4 (0.48)	0.2 (0.12)							
Colombia.....	402 (3.6)	20.4 (1.81)	33.7 (1.23)	30.2 (1.40)	13.1 (1.04)	2.5 (0.34)	0.1 (0.05)	# (†)							
Croatia .....	486 (2.8)	3.6 (0.47)	14.9 (0.99)	30.0 (1.07)	31.1 (1.03)	16.7 (0.98)	3.5 (0.57)	0.2 (0.10)							
Dubai (United Arab Emirates) .....	466 (1.2)	11.0 (0.47)	19.5 (0.57)	26.0 (0.78)	22.9 (0.73)	14.9 (0.59)	4.8 (0.35)	0.8 (0.21)							
Hong Kong-China .....	549 (2.8)	1.4 (0.31)	5.2 (0.61)	15.1 (0.73)	29.4 (0.99)	32.7 (0.99)	14.2 (0.94)	2.0 (0.30)							
Indonesia .....	383 (3.8)	24.6 (1.77)	41.0 (1.54)	27.0 (1.55)	6.9 (1.01)	0.5 (0.22)	# (†)	‡ (†)							
Jordan.....	415 (3.5)	18.0 (1.20)	27.6 (1.13)	32.2 (1.21)	17.6 (1.12)	4.1 (0.51)	0.5 (0.18)	# (†)							
Kazakhstan .....	400 (3.1)	22.4 (1.31)	33.0 (1.08)	27.9 (1.14)	12.8 (0.82)	3.6 (0.62)	0.3 (0.16)	# (†)							
Kyrgyzstan .....	330 (2.9)	52.9 (1.32)	29.0 (0.94)	13.3 (0.76)	4.0 (0.54)	0.7 (0.20)	# (†)	‡ (†)							
Latvia.....	494 (3.1)	2.3 (0.56)	12.5 (1.00)	29.1 (1.07)	35.5 (1.16)	17.6 (1.06)	3.0 (0.47)	0.1 (0.08)							
Liechtenstein.....	520 (3.4)	1.4 (0.74)	9.9 (1.94)	23.8 (3.07)	29.8 (3.67)	25.4 (2.67)	9.0 (1.74)	0.7 (0.67)							
Lithuania.....	491 (2.9)	3.5 (0.65)	13.5 (0.77)	28.9 (1.02)	32.4 (1.18)	17.0 (0.84)	4.3 (0.41)	0.4 (0.13)							
Macao-China .....	511 (1.0)	1.5 (0.21)	8.1 (0.36)	25.2 (0.77)	37.8 (0.74)	22.7 (0.98)	4.5 (0.47)	0.2 (0.08)							
Montenegro.....	401 (2.0)	22.2 (1.01)	31.4 (0.98)	29.4 (1.04)	13.6 (0.79)	3.1 (0.39)	0.2 (0.15)	‡ (†)							
Panama.....	376 (5.7)	32.8 (2.74)	32.4 (1.96)	23.2 (1.93)	9.3 (1.19)	2.2 (0.46)	0.2 (0.12)	‡ (†)							
Peru .....	369 (3.5)	35.3 (1.50)	33.0 (1.29)	21.7 (1.21)	8.0 (0.79)	1.8 (0.37)	0.2 (0.12)	# (†)							
Qatar.....	379 (0.9)	36.4 (0.58)	28.8 (0.54)	18.8 (0.56)	9.8 (0.30)	4.8 (0.23)	1.3 (0.14)	0.1 (0.05)							
Romania .....	428 (3.4)	11.9 (1.13)	29.5 (1.57)	34.1 (1.73)	19.7 (1.18)	4.4 (0.59)	0.4 (0.12)	# (†)							
Russian Federation.....	478 (3.3)	5.5 (0.67)	16.5 (1.06)	30.7 (1.14)	29.0 (1.15)	13.9 (0.91)	3.9 (0.50)	0.4 (0.17)							
Serbia.....	443 (2.4)	10.1 (0.82)	24.3 (0.96)	33.9 (1.17)	23.6 (0.75)	7.1 (0.57)	1.0 (0.18)	# (†)							
Shanghai-China.....	575 (2.3)	0.4 (0.11)	2.8 (0.36)	10.5 (0.66)	26.0 (0.99)	36.1 (1.12)	20.4 (0.96)	3.9 (0.45)							
Singapore .....	542 (1.4)	2.8 (0.24)	8.7 (0.52)	17.5 (0.58)	25.4 (0.83)	25.7 (0.70)	15.3 (0.67)	4.6 (0.50)							
Chinese Taipei .....	520 (2.6)	2.2 (0.34)	8.9 (0.60)	21.1 (0.91)	33.3 (1.04)	25.8 (1.10)	8.0 (0.74)	0.8 (0.22)							
Thailand .....	425 (3.0)	12.2 (1.10)	30.6 (1.01)	34.7 (1.34)	17.5 (0.95)	4.4 (0.51)	0.6 (0.27)	# (†)							
Trinidad and Tobago.....	410 (1.2)	25.1 (0.87)	24.9 (0.92)	25.2 (0.88)	16.0 (0.79)	7.1 (0.40)	1.8 (0.23)	0.1 (0.07)							
Tunisia.....	401 (2.7)	21.3 (1.17)	32.4 (1.08)	30.9 (1.00)	13.0 (0.85)	2.2 (0.43)	0.2 (0.12)	# (†)							
Uruguay .....	427 (2.6)	17.0 (0.94)	25.6 (0.86)	29.3 (1.01)	19.5 (1.02)	7.1 (0.51)	1.4 (0.22)	0.1 (0.04)							

†Not applicable.

#Rounds to zero.

‡Reporting standards not met.

<sup>1</sup>Level 1: Able to present scientific explanations that are obvious and that follow explicitly from given evidence. Level 2: Able to provide possible explanations in familiar contexts, draw conclusions based on simple investigations, and make literal interpretations of the results of scientific inquiry or technological problem solving. Level 3: Able to select facts to explain phenomena and apply simple models or inquiry strategies, develop short statements using facts, and make decisions based on scientific knowledge. Level 4: Able to select and integrate explanations from different disciplines of science or technology, link those explanations directly to aspects of life situations, and communicate decisions using scientific knowledge and evidence. Level 5: Able to apply scientific concepts and knowledge to many complex life situations, select and evaluate appropriate scientific evidence, bring critical insights to situations, and construct explanations based on evidence and arguments based on critical analysis. Level 6: Able to consistently explain and apply scientific knowledge in a variety of complex life situations; use evidence from different sources to justify decisions; clearly and consis-

tently demonstrate advanced scientific thinking and reasoning; and develop arguments in support of recommendations and decisions that center on personal, social, or global situations.

<sup>2</sup>Illustrates how a country compares with the OECD area as a whole. Computed by taking the OECD countries as a single entity to which each country contributes in proportion to the number of 15-year-olds enrolled in its schools.

<sup>3</sup>Refers to the mean of the data values for all OECD countries, to which each country contributes equally, regardless of the absolute size of the student population of each country.

NOTE: PISA scores are reported on a scale from 0 to 1,000. Detail may not sum to totals because of rounding. Standard errors appear in parentheses.

SOURCE: Organization for Economic Cooperation and Development (OECD), Program for International Student Assessment (PISA), 2009, *PISA 2009 Results: What Students Know and Can Do—Student Performance in Reading, Mathematics and Science (Volume I)*. (This table was prepared December 2010.)

**Table 420. Percentage of the population 25 to 64 years old who completed high school, by age group and country: 2001, 2005, and 2009**

Country	2001					2005		2009					
	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	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
<b>OECD average<sup>1</sup></b>	<b>64.2</b>	<b>74.0</b>	<b>68.4</b>	<b>60.2</b>	<b>48.6</b>	<b>72.8</b>	<b>82.6</b>	<b>73.3 (0.03)</b>	<b>81.5 (0.06)</b>	<b>77.0 (0.06)</b>	<b>70.5 (0.07)</b>	<b>61.3 (0.08)</b>	
Australia.....	58.9	70.7	60.2	54.6	43.8	65.0	78.6	71.0 (0.29)	82.9 (0.49)	73.3 (0.55)	66.8 (0.59)	58.0 (0.70)	
Austria <sup>2,3</sup> .....	75.7	83.3	80.4	71.9	62.5	80.6	87.5	81.9 (0.12)	88.4 (0.22)	85.1 (0.21)	80.4 (0.23)	71.7 (0.30)	
Belgium <sup>2</sup> .....	58.5	75.3	62.6	51.3	38.4	66.1	80.9	70.6 (0.19)	83.1 (0.33)	77.7 (0.33)	66.6 (0.37)	53.7 (0.42)	
Canada.....	81.9	89.3	84.9	81.0	66.6	85.2	90.8	87.6 (0.12)	92.0 (0.20)	90.8 (0.21)	86.6 (0.23)	80.4 (0.31)	
Chile <sup>4</sup> .....	—	—	—	—	—	50.0	64.3	69.0 (0.19)	85.6 (0.24)	74.7 (0.28)	66.3 (0.32)	42.7 (0.40)	
Czech Republic.....	86.2	92.5	89.8	84.0	76.3	89.9	93.9	91.4 (0.08)	94.2 (0.14)	94.4 (0.13)	90.5 (0.17)	85.9 (0.18)	
Denmark.....	80.2	86.3	80.4	80.4	71.9	81.0	87.4	76.3 (0.17)	85.7 (0.43)	81.3 (0.40)	70.7 (0.34)	68.0 (0.29)	
Estonia.....	—	—	—	—	—	89.1	87.4	88.9 (0.31)	86.3 (0.73)	92.4 (0.49)	92.9 (0.46)	83.3 (0.77)	
Finland.....	73.8	86.8	84.3	70.0	50.9	78.8	89.4	82.0 (0.12)	90.4 (0.21)	88.4 (0.21)	83.6 (0.23)	67.5 (0.29)	
France <sup>5</sup> .....	63.9	78.4	67.4	58.3	46.2	66.3	81.1	70.0 (0.10)	83.9 (0.17)	76.9 (0.18)	64.1 (0.20)	54.7 (0.21)	
Germany.....	82.6	85.5	85.5	82.9	75.8	83.1	84.1	85.5 (0.06)	86.0 (0.13)	86.8 (0.11)	85.9 (0.11)	82.7 (0.13)	
Greece.....	51.4	72.6	60.3	43.1	27.6	57.1	73.6	61.2 (0.12)	74.9 (0.23)	69.3 (0.23)	56.8 (0.24)	39.5 (0.25)	
Hungary.....	70.2	80.9	78.5	71.8	44.1	76.4	85.0	80.6 (0.10)	86.0 (0.18)	82.9 (0.20)	79.8 (0.20)	72.5 (0.22)	
Iceland.....	56.9	61.2	60.2	55.5	45.6	62.9	69.0	65.9 (0.50)	70.0 (0.93)	70.6 (0.98)	63.8 (0.97)	56.7 (1.14)	
Ireland.....	57.6	73.4	62.4	48.2	35.3	64.5	81.1	71.5 (0.12)	85.8 (0.18)	77.2 (0.21)	64.6 (0.26)	47.6 (0.30)	
Israel.....	—	—	—	—	—	79.2	85.7	81.8 (0.15)	87.4 (0.25)	83.9 (0.29)	77.9 (0p.34)	74.3 (0.37)	
Italy.....	43.3	57.5	49.3	38.5	21.8	50.1	65.9	54.3 (0.08)	70.3 (0.17)	57.9 (0.16)	50.4 (0.16)	36.7 (0.16)	
Japan.....	83.1	93.6	94.0	81.1	62.8	—	—	(t)	(t)	(t)	(t)	(t)	
Korea, Republic of.....	68.0	94.6	76.8	49.1	29.9	75.5	97.3	79.9 (0.20)	97.5 (0.15)	94.1 (0.22)	71.0 (0.44)	42.6 (0.63)	
Luxembourg.....	52.7	59.4	56.7	47.1	42.1	65.9	76.5	77.3 (0.41)	83.8 (0.80)	78.8 (0.70)	74.4 (0.80)	70.5 (0.99)	
Mexico.....	21.6	25.4	24.7	17.5	11.1	21.3	24.0	35.2 (0.06)	41.9 (0.12)	37.2 (0.12)	32.4 (0.13)	21.3 (0.14)	
Netherlands <sup>2,5</sup> .....	65.0	74.0	69.0	60.0	51.0	71.8	81.3	73.4 (0.09)	82.4 (0.17)	77.6 (0.16)	71.4 (0.17)	62.5 (0.20)	
New Zealand.....	75.7	81.8	79.5	75.1	60.1	78.7	85.2	72.2 (0.43)	79.3 (0.84)	75.5 (0.79)	70.5 (0.84)	61.5 (0.97)	
Norway <sup>2</sup> .....	85.2	93.4	90.3	81.9	69.9	77.2	83.5	80.7 (0.16)	83.6 (0.33)	83.1 (0.29)	77.3 (0.34)	78.7 (0.34)	
Poland.....	45.9	51.7	47.5	44.5	36.4	51.4	62.5	88.0 (0.10)	93.5 (0.15)	91.5 (0.17)	88.0 (0.18)	77.5 (0.25)	
Portugal.....	19.9	32.5	19.9	13.6	8.5	26.5	42.8	29.9 (0.16)	48.2 (0.38)	31.4 (0.32)	21.9 (0.26)	14.1 (0.23)	
Slovak Republic.....	85.1	93.7	89.9	82.9	66.0	85.7	93.0	90.9 (0.12)	94.8 (0.19)	94.2 (0.20)	89.8 (0.25)	82.8 (0.30)	
Slovenia.....	—	—	—	—	—	80.3	91.2	83.3 (0.19)	93.5 (0.27)	85.0 (0.39)	79.6 (0.37)	73.8 (0.46)	
Spain.....	40.0	57.1	44.7	29.0	17.1	48.8	63.9	51.8 (0.08)	64.1 (0.16)	58.0 (0.15)	46.5 (0.16)	30.3 (0.16)	
Sweden.....	80.6	90.7	86.3	78.4	65.1	83.6	90.6	85.8 (0.09)	91.2 (0.16)	90.8 (0.14)	85.4 (0.18)	75.7 (0.21)	
Switzerland.....	87.4	91.8	90.0	85.1	80.6	83.0	87.9	86.9 (0.19)	90.0 (0.36)	88.4 (0.32)	86.1 (0.38)	82.5 (0.45)	
Turkey.....	24.3	30.2	23.5	19.2	13.3	27.2	35.7	31.1 (0.09)	41.6 (0.18)	27.7 (0.17)	24.7 (0.18)	19.3 (0.20)	
United Kingdom <sup>3,5</sup> .....	63.0	68.0	65.0	61.2	55.1	66.7	72.9	73.7 (0.09)	81.6 (0.17)	76.5 (0.17)	71.7 (0.18)	64.0 (0.20)	
United States.....	87.7	88.1	88.7	89.2	82.6	87.8	86.7	88.6 (0.12)	88.3 (0.19)	88.3 (0.18)	89.1 (0.21)	88.9 (0.20)	
<b>Other reporting countries</b>													
Brazil <sup>4</sup> .....	—	—	—	—	—	29.5	38.0	40.7 (0.11)	52.5 (0.19)	42.0 (0.21)	33.5 (0.22)	24.5 (0.24)	
Russian Federation <sup>6</sup> .....	88.0	91.0	93.7	89.4	71.2	—	—	(t)	(t)	(t)	(t)	(t)	

—Not available.

†Not applicable.

<sup>1</sup>Refers to the mean of the data values for all reporting 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.

<sup>2</sup>Data from 2000 reported for 2001.

<sup>3</sup>Data in 2005 columns include some ISCED 3C short programs.

<sup>4</sup>Data from 2004 reported for 2005.

<sup>5</sup>Data in 2001 columns include some ISCED 3C short programs.

<sup>6</sup>Data from 2002 reported for 2001.

NOTE: Data in this table refer to degrees classified by the Organization for Economic Cooperation and Development (OECD) as International Standard Classification of Education (ISCED) level 3. ISCED level 3 corresponds to high school completion in the United States. ISCED 3C short programs do not correspond to high school completion; these short programs are excluded from this table except where otherwise noted. Standard errors appear in parentheses.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2002, 2007, and 2011. (This table was prepared June 2011.)



Table 421. Percentage of the population 25 to 64 years old who attained selected levels of postsecondary education, by age group and country: 2001 and 2009

Country	Total, any postsecondary degree				2009										
	2001		2009		Vocational degree <sup>1</sup>					Bachelor's or higher degree <sup>2</sup>					
	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	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	
OECD average <sup>3</sup> .....	22.6	27.3	30.0 (0.04)	37.1 (0.08)	10.4 (0.03)	11.0 (0.07)	11.3 (0.06)	10.2 (0.06)	8.2 (0.06)	21.4 (0.03)	27.7 (0.08)	22.8 (0.07)	18.6 (0.06)	15.6 (0.06)	
Australia .....	29.0	33.5	36.9 (0.31)	44.8 (0.65)	10.1 (0.20)	10.2 (0.39)	10.8 (0.38)	9.8 (0.37)	9.4 (0.41)	26.8 (0.29)	34.6 (0.62)	27.2 (0.55)	23.8 (0.54)	19.9 (0.57)	
Austria .....	14.1	14.3	19.0 (0.12)	21.1 (0.28)	7.6 (0.08)	5.8 (0.16)	8.0 (0.16)	8.7 (0.16)	7.7 (0.18)	11.4 (0.10)	15.3 (0.25)	12.3 (0.19)	9.6 (0.17)	8.2 (0.18)	
Belgium .....	27.6	37.5	33.4 (0.19)	42.5 (0.44)	15.9 (0.15)	18.3 (0.34)	17.6 (0.31)	15.4 (0.28)	12.0 (0.27)	17.5 (0.16)	24.2 (0.38)	19.3 (0.32)	14.9 (0.28)	11.4 (0.27)	
Canada .....	41.6	50.5	49.5 (0.18)	56.1 (0.36)	24.1 (0.16)	26.0 (0.32)	26.6 (0.31)	23.8 (0.29)	19.6 (0.31)	25.4 (0.16)	30.1 (0.34)	29.1 (0.32)	21.4 (0.28)	21.1 (0.32)	
Chile <sup>4</sup> .....	10.1	12.3	24.4 (0.18)	34.9 (0.33)	8.0 (0.11)	11.0 (0.22)	10.0 (0.20)	6.7 (0.17)	3.1 (0.14)	16.4 (0.15)	24.0 (0.30)	14.2 (0.23)	13.6 (0.23)	13.5 (0.28)	
Czech Republic <sup>5</sup> .....	11.1	11.3	15.5 (0.10)	20.2 (0.23)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	15.5 (0.10)	20.2 (0.23)	14.8 (0.20)	15.6 (0.20)	10.8 (0.16)	
Denmark .....	26.8	27.5	34.3 (0.19)	44.7 (0.62)	7.2 (0.11)	8.5 (0.35)	7.9 (0.28)	6.8 (0.19)	5.7 (0.15)	27.1 (0.18)	36.2 (0.60)	31.0 (0.47)	21.5 (0.30)	20.1 (0.25)	
Estonia .....	—	—	36.0 (0.47)	36.6 (1.02)	13.2 (0.33)	14.8 (0.75)	11.0 (0.58)	15.2 (0.65)	11.5 (0.66)	22.7 (0.41)	21.7 (0.87)	25.3 (0.80)	22.5 (0.75)	21.3 (0.85)	
Finland .....	32.3	38.2	37.3 (0.16)	39.4 (0.34)	14.7 (0.11)	3.4 (0.13)	19.3 (0.26)	20.1 (0.25)	15.3 (0.22)	22.6 (0.13)	36.0 (0.34)	25.2 (0.29)	17.4 (0.23)	13.7 (0.21)	
France .....	23.0	34.2	28.9 (0.10)	43.2 (0.23)	11.6 (0.07)	17.5 (0.18)	13.5 (0.15)	9.5 (0.12)	6.0 (0.10)	17.3 (0.08)	25.7 (0.20)	18.8 (0.17)	12.7 (0.14)	12.0 (0.14)	
Germany .....	23.2	21.8	26.4 (0.07)	25.7 (0.16)	9.3 (0.05)	6.8 (0.09)	9.8 (0.09)	10.5 (0.09)	9.7 (0.10)	17.1 (0.06)	18.9 (0.14)	18.0 (0.12)	15.9 (0.11)	15.6 (0.12)	
Greece .....	17.8	24.0	23.5 (0.11)	29.4 (0.24)	6.7 (0.06)	10.1 (0.16)	7.7 (0.13)	5.3 (0.11)	2.7 (0.08)	16.9 (0.09)	19.3 (0.21)	18.6 (0.19)	16.3 (0.18)	12.3 (0.16)	
Hungary .....	14.1	14.7	19.9 (0.10)	25.1 (0.23)	# (†)	1.0 (†)	# (†)	# (†)	# (†)	19.4 (0.10)	24.1 (0.23)	18.6 (0.20)	18.1 (0.19)	16.2 (0.18)	
Iceland .....	24.8	26.6	32.8 (0.50)	35.8 (0.98)	3.9 (0.21)	2.5 (0.31)	5.6 (0.50)	4.3 (0.41)	3.2 (0.41)	28.8 (0.48)	33.4 (0.96)	32.5 (1.01)	27.4 (0.90)	19.5 (0.91)	
Ireland .....	35.6	47.8	35.9 (0.13)	47.6 (0.26)	14.9 (0.10)	18.7 (0.20)	16.9 (0.19)	12.2 (0.18)	8.9 (0.17)	20.9 (0.11)	28.8 (0.23)	22.5 (0.21)	16.0 (0.20)	11.4 (0.19)	
Israel .....	—	—	44.9 (0.20)	42.9 (0.37)	15.5 (0.14)	13.4 (0.26)	16.3 (0.29)	16.4 (0.30)	16.7 (0.32)	29.4 (0.18)	29.5 (0.35)	30.8 (0.36)	28.5 (0.37)	28.4 (0.39)	
Italy .....	10.0	11.8	14.5 (0.06)	20.2 (0.15)	# (†)	# (†)	# (†)	# (†)	# (†)	14.1 (0.06)	19.9 (0.15)	15.0 (0.12)	11.4 (0.10)	10.0 (0.10)	
Japan .....	33.8	47.7	43.8 (0.13)	55.7 (0.29)	19.1 (0.10)	23.9 (0.25)	23.4 (0.22)	18.6 (0.21)	11.0 (0.15)	24.6 (0.11)	31.8 (0.27)	25.3 (0.23)	26.1 (0.24)	16.4 (0.18)	
Korea, Republic of .....	24.2	39.5	38.8 (0.25)	63.1 (0.47)	11.6 (0.16)	25.5 (0.42)	11.5 (0.30)	5.2 (0.22)	1.4 (0.15)	27.1 (0.23)	37.6 (0.47)	32.8 (0.44)	20.5 (0.39)	11.9 (0.41)	
Luxembourg .....	18.1	23.4	34.8 (0.46)	44.5 (1.08)	14.6 (0.34)	20.4 (0.87)	14.8 (0.60)	11.3 (0.58)	11.3 (0.69)	20.2 (0.39)	24.1 (0.93)	23.1 (0.72)	17.7 (0.70)	13.6 (0.75)	
Mexico <sup>5</sup> .....	15.0	17.9	15.9 (0.05)	20.2 (0.10)	1.1 (0.01)	1.2 (0.03)	1.1 (0.03)	1.2 (0.03)	0.7 (0.03)	15.9 (0.05)	20.2 (0.10)	14.9 (0.09)	15.1 (0.10)	9.8 (0.10)	
Netherlands .....	23.2	26.5	32.8 (0.09)	40.1 (0.22)	2.8 (0.03)	2.5 (0.07)	3.3 (0.07)	2.8 (0.06)	2.3 (0.06)	30.0 (0.09)	37.6 (0.22)	30.3 (0.18)	28.0 (0.17)	25.1 (0.18)	
New Zealand .....	29.2	28.5	40.1 (0.47)	46.7 (1.04)	16.9 (0.36)	15.9 (0.76)	15.7 (0.67)	18.3 (0.71)	17.9 (0.77)	23.2 (0.41)	30.8 (0.96)	25.5 (0.81)	19.5 (0.73)	15.8 (0.73)	
Norway .....	30.2	37.9	36.7 (0.20)	46.8 (0.45)	2.2 (0.06)	1.4 (0.11)	1.9 (0.11)	2.7 (0.13)	2.8 (0.14)	34.5 (0.20)	45.5 (0.45)	37.8 (0.38)	30.1 (0.37)	24.4 (0.35)	
Poland <sup>5</sup> .....	11.9	15.2	21.2 (0.12)	35.4 (0.29)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	21.2 (0.12)	35.4 (0.29)	20.9 (0.25)	13.1 (0.19)	12.6 (0.19)	
Portugal <sup>5</sup> .....	9.0	13.7	14.7 (0.12)	23.3 (0.32)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	14.7 (0.12)	23.3 (0.32)	15.1 (0.24)	11.0 (0.20)	7.4 (0.17)	
Slovak Republic .....	10.9	11.9	15.8 (0.15)	20.6 (0.35)	0.8 (0.04)	0.9 (0.08)	0.6 (0.07)	0.8 (0.07)	1.0 (0.08)	15.0 (0.15)	19.7 (0.34)	14.0 (0.30)	13.3 (0.28)	11.2 (0.25)	
Slovenia .....	—	—	23.3 (0.22)	30.4 (0.50)	10.8 (0.16)	11.7 (0.35)	11.8 (0.35)	10.0 (0.28)	9.4 (0.31)	12.6 (0.17)	18.7 (0.42)	14.2 (0.38)	9.4 (0.27)	7.3 (0.27)	
Spain .....	23.6	35.5	29.7 (0.07)	38.2 (0.16)	9.5 (0.05)	13.2 (0.11)	11.4 (0.10)	7.2 (0.08)	4.1 (0.07)	20.1 (0.07)	25.0 (0.15)	22.2 (0.13)	18.0 (0.12)	12.5 (0.11)	
Sweden .....	31.6	36.9	33.0 (0.12)	42.3 (0.27)	8.7 (0.07)	8.5 (0.15)	8.3 (0.14)	9.4 (0.15)	8.9 (0.14)	24.3 (0.11)	33.9 (0.26)	26.3 (0.22)	19.3 (0.20)	18.0 (0.19)	
Switzerland .....	25.4	25.6	35.0 (0.27)	40.0 (0.60)	10.3 (0.17)	9.4 (0.36)	11.6 (0.32)	10.6 (0.34)	9.2 (0.34)	24.7 (0.24)	30.5 (0.56)	26.3 (0.44)	22.4 (0.46)	19.1 (0.46)	
Turkey <sup>2</sup> .....	8.9	10.2	12.7 (0.07)	16.6 (0.13)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	12.7 (0.07)	16.6 (0.13)	11.3 (0.12)	9.7 (0.12)	9.9 (0.15)	
United Kingdom .....	26.0	30.0	36.9 (0.10)	44.9 (0.22)	10.0 (0.06)	8.5 (0.12)	11.0 (0.12)	10.8 (0.13)	9.5 (0.12)	26.9 (0.09)	36.3 (0.21)	28.0 (0.18)	23.3 (0.17)	19.2 (0.16)	
United States .....	37.3	39.1	41.2 (0.19)	41.1 (0.33)	9.8 (0.08)	8.9 (0.15)	10.2 (0.15)	10.8 (0.16)	9.2 (0.17)	31.4 (0.16)	32.1 (0.32)	32.9 (0.26)	29.1 (0.29)	31.7 (0.33)	
Other reporting countries															
Brazil <sup>6-5</sup> .....	7.7	6.7	10.9 (0.07)	11.6 (0.12)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	10.9 (0.07)	11.6 (0.12)	11.3 (0.13)	10.7 (0.14)	8.9 (0.16)	
China <sup>4</sup> .....	4.6	6.1	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	
Russian Federation <sup>6</sup> .....	54.0	55.5	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	

—Not available.

†Not applicable.

#Rounds to zero.

<sup>1</sup>International Standard Classification of Education (ISCED) level 5B corresponds to the associate's degree in the United States in this table.<sup>2</sup>ISCED 5A, first award, corresponds to the bachelor's degree in the United States; ISCED 5A, second award, corresponds to master's and first-professional degrees in the United States; and ISCED 6 corresponds to doctor's degrees.<sup>3</sup>Refers to the mean of the data values for all reporting 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.<sup>4</sup>Data from 2000 reported for 2001.<sup>5</sup>Columns for bachelor's or higher degree include vocational degree data.<sup>6</sup>Data from 2002 shown for 2001.

NOTE: Standard errors appear in parentheses.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2002 and 2011. (This table was prepared June 2011.)

Table 422. Percentage of the population 25 to 64 years old who attained a bachelor's or higher level degree, by age group and country: Selected years, 1999 through 2009

Country	1999		2001		2002		2003		2004		2005		2006		2007		2008		2009			
	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	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		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		
OECD average <sup>1</sup>	14.0	16.5	15.1	18.2	16.1	19.6	16.9	21.0	17.9	22.2	18.8	23.9	19.5	24.6	20.0	25.4	20.8	26.6	21.4	(0.03)	27.7	(0.08)
Australia.....	17.7	20.1	19.2	23.9	20.0	24.7	20.5	24.9	21.9	27.0	22.7	29.2	23.8	29.2	24.1	30.6	25.5	31.9	26.8	(0.29)	34.6	(0.62)
Austria <sup>2</sup> .....	6.1	6.8	6.8	6.9	7.0	7.3	7.3	8.4	9.2	11.1	9.1	11.6	10.1	12.9	10.4	13.3	10.7	13.5	11.4	(0.10)	15.3	(0.25)
Belgium.....	12.0	16.0	12.7	17.8	12.8	17.8	13.0	18.2	13.6	19.1	13.8	19.1	14.1	19.4	14.0	18.2	16.4	22.8	17.5	(0.16)	24.2	(0.38)
Canada.....	19.1	23.1	20.4	25.1	21.0	26.1	22.0	27.5	22.2	27.5	23.3	28.2	24.0	29.3	24.6	29.5	25.2	29.8	25.4	(0.16)	30.1	(0.34)
Chile <sup>2,3</sup> .....	8.2	9.6	9.0	10.7	11.3	14.5	11.9	15.5	10.3	14.2	—	—	—	—	—	—	15.7	22.3	16.4	(0.15)	24.0	(0.30)
Czech Republic <sup>4</sup> .....	10.8	10.9	11.1	11.3	11.9	12.3	11.7	11.7	12.3	13.0	13.1	14.2	13.5	15.2	13.7	15.5	14.5	17.7	15.5	(0.10)	20.2	(0.23)
Denmark.....	—	—	21.5	21.7	22.8	23.4	25.0	27.2	25.2	27.2	26.0	30.7	27.1	31.7	25.5	32.0	27.5	34.9	27.1	(0.18)	36.2	(0.60)
Estonia.....	—	—	—	—	—	—	—	—	—	—	22.2	24.1	22.2	24.1	22.2	25.2	22.3	23.5	22.7	(0.41)	21.7	(0.87)
Finland.....	13.9	15.6	14.8	18.0	15.6	20.5	16.4	23.1	17.1	23.8	18.1	26.6	19.2	29.4	20.9	31.8	21.5	32.9	22.6	(0.13)	36.0	(0.34)
France.....	11.0	15.3	11.9	17.5	12.4	18.6	14.2	21.9	14.3	22.0	14.8	22.3	15.6	23.7	15.9	23.8	16.4	23.7	17.3	(0.08)	25.7	(0.20)
Germany.....	13.0	12.9	13.5	13.5	13.4	13.5	14.1	14.0	14.7	14.8	14.8	15.1	15.1	15.1	15.6	16.1	16.4	17.5	17.1	(0.06)	18.9	(0.14)
Greece.....	12.2	16.6	12.4	16.6	12.7	16.9	12.6	16.5	14.6	17.2	14.5	17.0	15.1	17.7	15.4	18.7	16.8	18.6	16.9	(0.09)	19.3	(0.21)
Hungary <sup>5</sup> .....	13.5	13.7	14.1	14.7	14.2	14.8	15.3	16.6	16.7	18.9	16.9	19.1	17.4	20.1	17.7	21.1	18.7	22.9	19.4	(0.10)	24.1	(0.23)
Iceland.....	17.8	22.3	18.8	21.1	19.9	22.9	—	—	23.5	28.2	25.9	32.5	25.6	28.5	26.1	27.9	27.9	30.6	28.8	(0.48)	33.4	(0.96)
Ireland <sup>2</sup> .....	10.6	16.1	14.0	19.8	15.9	22.8	16.3	23.0	17.8	25.8	18.4	26.2	19.9	28.2	21.1	29.9	22.2	30.6	20.9	(0.11)	28.8	(0.23)
Israel.....	—	—	—	—	25.9	25.4	27.0	27.2	29.4	34.2	29.8	34.8	29.8	34.8	28.3	28.1	28.8	28.9	29.4	(0.18)	29.5	(0.35)
Italy <sup>5</sup> .....	9.3	10.0	10.0	11.8	10.4	12.5	—	—	11.4	14.6	11.7	15.5	12.4	16.7	13.0	18.3	14.0	19.6	14.1	(0.06)	19.9	(0.15)
Japan.....	18.3	23.0	19.2	24.3	20.1	25.0	20.9	26.4	—	—	22.3	27.9	23.0	29.7	23.1	29.0	24.3	30.9	24.6	(0.11)	31.8	(0.27)
Korea, Republic of.....	16.9	23.2	17.5	25.0	18.5	25.8	21.7	29.9	22.0	30.8	22.7	31.7	23.5	32.9	24.4	33.9	25.6	34.5	27.1	(0.23)	37.6	(0.47)
Luxembourg.....	11.7	13.1	11.4	15.1	11.6	14.0	—	—	13.5	17.5	17.0	23.8	16.4	22.7	17.7	23.8	20.0	27.9	20.2	(0.39)	24.1	(0.93)
Mexico.....	11.9	14.1	13.3	15.3	—	—	13.6	16.0	14.4	16.3	13.8	17.0	14.4	17.5	14.9	18.4	14.9	18.5	15.9	(0.05)	20.2	(0.10)
Netherlands.....	20.1	22.7	20.9	24.1	21.9	25.3	—	—	26.9	31.8	28.3	33.8	28.4	34.3	29.1	35.1	29.8	37.5	30.0	(0.09)	37.6	(0.22)
New Zealand.....	13.1	15.6	13.9	16.9	14.8	17.6	16.1	20.7	17.6	22.8	19.7	26.2	23.0	29.8	25.3	33.0	25.1	33.6	23.2	(0.41)	30.8	(0.96)
Norway <sup>2</sup> .....	25.3	30.6	27.6	35.4	28.4	37.4	28.5	37.4	29.4	37.0	30.3	38.9	30.5	39.8	31.9	40.8	33.6	43.8	34.5	(0.20)	45.5	(0.45)
Poland <sup>2,4</sup> .....	11.3	12.3	11.9	15.2	12.1	15.6	14.2	20.4	15.7	23.2	16.9	25.5	17.9	28.0	18.7	30.0	19.6	32.1	21.2	(0.12)	35.4	(0.29)
Portugal <sup>6</sup> .....	7.1	9.3	6.6	10.6	7.1	12.2	8.4	13.2	12.5	18.6	12.8	19.1	13.5	20.0	13.7	21.4	14.3	23.2	14.7	(0.12)	23.3	(0.32)
Slovak Republic.....	—	—	10.3	11.2	10.4	11.4	11.2	12.6	11.8	13.6	12.8	15.4	13.3	15.7	13.3	16.8	14.0	17.8	15.0	(0.15)	19.7	(0.34)
Slovenia.....	—	—	—	—	—	—	—	—	—	—	10.6	15.2	10.6	15.2	11.7	17.6	11.8	18.4	12.6	(0.17)	18.7	(0.42)
Spain.....	14.8	22.1	16.9	23.9	17.3	24.7	17.9	25.8	18.9	26.6	19.9	27.0	19.8	26.0	20.0	26.0	20.0	25.7	20.1	(0.07)	25.0	(0.15)
Sweden.....	13.1	11.1	16.9	19.7	17.7	22.0	18.5	23.8	19.3	25.9	20.6	28.4	21.7	30.6	22.6	31.5	23.4	32.4	24.3	(0.11)	33.9	(0.26)
Switzerland.....	14.5	16.6	15.8	15.9	16.2	16.9	17.5	19.6	18.1	20.2	19.0	21.9	19.9	23.2	21.3	25.6	23.3	28.8	24.7	(0.24)	30.5	(0.56)
Turkey <sup>4</sup> .....	7.1	7.6	8.9	10.2	9.3	10.6	9.7	11.4	9.1	10.8	9.7	11.8	10.4	12.8	10.8	13.6	12.0	15.5	12.7	(0.07)	16.6	(0.13)
United Kingdom.....	16.6	18.8	18.0	21.0	18.6	23.1	19.3	24.2	20.2	25.9	20.8	26.9	21.7	28.6	22.7	29.4	23.6	30.7	26.9	(0.09)	36.3	(0.21)
United States.....	27.5	28.7	28.3	29.9	29.0	30.6	29.4	30.0	29.7	30.2	29.6	30.3	29.9	29.9	30.9	31.0	31.5	32.3	31.4	(0.16)	32.1	(0.32)
Other reporting countries																						
Brazil <sup>2,4</sup> .....	7.5	6.5	7.6	6.6	8.2	7.2	—	—	7.8	7.9	—	—	—	—	9.6	10.0	10.8	11.0	10.9	(0.07)	11.6	(0.12)
Russian Federation.....	—	—	—	—	20.8	21.3	—	—	—	—	—	—	—	—	—	—	—	—	—	(†)	—	(†)

—Not available.

†Not applicable.

<sup>1</sup>Refers to the mean of the data values for all reporting 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.

<sup>2</sup>Data from 1998 reported for 1999.

<sup>3</sup>Data from 2000 reported for 2001.

<sup>4</sup>Data include vocational degrees.

<sup>5</sup>Data for 1999 to 2004 include vocational degrees.

<sup>6</sup>Data for 2004 to 2009 include vocational degrees.

NOTE: Data in this table refer to degrees classified by OECD as International Standard Classification of Education (ISCED) level 5A (first and second award) and as level 6. ISCED 5A, first award, corresponds to the bachelor's degree in the United States; ISCED 5A, second award, corresponds to master's and first-professional degrees in the United States; and ISCED 6 corresponds to doctor's degrees. Standard errors appear in parentheses.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2001 through 2011. (This table was prepared July 2011.)

Table 423. Percentage of the population 25 to 64 years old who attained a postsecondary vocational degree, by age group and country: Selected years, 1999 through 2009

Country	1999		2001		2002		2003		2004		2005		2006		2007		2008		2009			
	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	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		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		
OECD average <sup>1</sup> .....	8.4	10.5	8.9	10.8	9.0	10.7	9.5	11.2	9.0	10.3	8.8	9.8	9.0	10.0	9.4	10.1	9.7	10.4	10.4	(0.03)	11.0	(0.07)
Australia.....	9.0	8.8	9.7	9.7	10.7	11.1	10.8	11.4	8.9	9.2	9.0	8.9	9.2	9.6	9.6	10.2	10.1	9.8	10.1	(0.20)	10.2	(0.39)
Austria <sup>2</sup> .....	4.7	5.8	7.3	7.4	7.5	7.5	7.2	7.0	9.2	9.1	8.7	8.1	7.5	6.3	7.2	5.6	7.4	5.9	7.6	(0.08)	5.8	(0.16)
Belgium.....	13.9	17.9	14.9	19.7	15.3	19.9	16.0	20.7	16.8	22.1	17.3	21.5	17.7	22.5	18.1	23.1	15.9	19.5	15.9	(0.15)	18.3	(0.34)
Canada.....	20.2	23.7	21.2	25.4	21.6	25.1	22.0	25.3	22.4	25.6	22.8	25.6	22.9	25.5	23.7	26.3	23.6	26.1	24.1	(0.16)	26.0	(0.32)
Chile <sup>2,3</sup> .....	0.9	1.4	1.0	1.6	1.5	2.3	1.2	1.7	2.8	4.1	—	—	—	—	—	—	8.5	11.5	8.0	(0.11)	11.0	(0.22)
Denmark.....	—	—	5.3	5.8	5.1	5.8	6.9	7.8	7.2	7.7	7.6	9.1	7.6	9.1	6.7	8.1	7.0	8.2	7.2	(0.11)	8.5	(0.35)
Estonia.....	—	—	—	—	—	—	—	—	—	—	11.1	8.7	11.1	8.7	11.1	9.4	12.0	12.3	13.2	(0.33)	14.8	(0.75)
Finland.....	17.4	21.8	17.5	20.2	17.0	18.7	16.9	16.7	16.9	14.2	16.6	11.0	15.9	9.0	15.4	7.5	15.0	5.4	14.7	(0.11)	3.4	(0.13)
France.....	10.5	15.6	11.2	16.7	11.6	17.4	9.2	15.5	9.6	16.0	10.0	17.0	10.6	17.7	10.9	17.7	11.1	16.9	11.6	(0.07)	17.5	(0.18)
Germany.....	9.9	8.6	9.7	8.2	10.0	8.3	9.9	7.8	10.3	8.1	9.7	7.4	8.9	6.8	8.7	6.5	9.0	6.5	9.3	(0.05)	6.8	(0.09)
Greece.....	5.5	8.6	5.4	7.4	5.7	7.1	5.7	7.1	6.0	7.4	6.7	8.4	7.0	9.0	7.4	9.4	6.6	9.6	6.7	(0.06)	10.1	(0.16)
Hungary.....	—	—	—	—	—	—	—	—	—	—	0.2	0.5	0.3	0.6	#	0.9	#	1.0	#	(†)	1.0	(#)
Iceland.....	4.6	5.3	6.0	5.5	6.3	6.1	—	—	4.3	3.1	4.7	3.3	3.9	3.0	3.7	3.2	3.4	2.2	3.9	(0.21)	2.5	(0.31)
Ireland <sup>2</sup> .....	10.5	13.4	21.6	28.1	9.5	13.5	10.0	14.1	10.5	14.5	10.6	14.4	10.9	14.0	11.1	14.0	11.7	14.5	14.9	(0.10)	18.7	(0.20)
Israel.....	—	—	—	—	16.2	15.3	15.9	14.8	15.9	15.1	16.0	15.1	16.0	15.1	15.2	13.4	15.1	13.4	15.5	(0.14)	13.4	(0.26)
Italy.....	—	—	—	—	—	—	—	—	—	—	0.5	0.6	0.5	0.6	0.5	0.6	#	#	#	(†)	#	(†)
Japan.....	13.4	22.1	14.6	23.4	16.2	25.3	16.5	25.2	—	—	17.7	25.3	17.5	24.4	17.9	24.6	18.5	24.1	19.1	(0.10)	23.9	(0.25)
Korea, Republic of.....	5.8	11.9	6.7	14.5	7.6	15.5	7.8	16.7	8.4	18.3	8.9	19.3	9.5	20.1	10.2	21.6	10.9	23.3	11.6	(0.16)	25.5	(0.42)
Luxembourg.....	6.6	8.1	6.7	8.3	7.1	8.6	8.9	12.1	9.4	13.5	9.6	13.2	7.6	10.8	8.8	11.9	7.7	10.8	14.6	(0.34)	20.4	(0.87)
Mexico.....	1.3	2.2	1.7	2.7	3.3	6.0	1.8	2.7	2.0	3.0	1.1	1.2	1.0	1.1	1.0	1.1	1.1	1.2	1.1	(0.01)	1.2	(0.03)
Netherlands.....	2.5	2.4	2.3	2.4	2.5	2.4	—	—	2.4	2.4	1.8	1.6	1.8	1.7	1.7	1.6	2.4	2.2	2.8	(0.03)	2.5	(0.07)
New Zealand.....	13.9	10.4	15.3	11.6	15.1	11.8	14.8	11.7	7.7	5.2	7.4	4.6	15.3	13.8	15.7	14.3	14.9	13.9	16.9	(0.36)	15.9	(0.76)
Norway <sup>2</sup> .....	2.0	2.2	2.6	2.6	2.5	2.4	2.5	2.4	2.4	2.2	2.4	1.9	2.4	1.7	2.4	1.9	2.4	1.8	2.2	(0.06)	1.4	(0.11)
Portugal.....	2.7	3.0	2.4	3.1	2.2	2.9	2.4	3.1	—	—	—	—	—	—	—	—	—	—	—	(†)	—	(†)
Slovak Republic.....	—	—	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.7	0.8	0.9	0.9	0.9	0.7	0.7	0.8	0.6	0.8	(0.04)	0.9	(0.08)
Slovenia.....	—	—	—	—	—	—	—	—	—	—	9.6	9.5	9.6	9.5	10.6	12.4	10.8	11.7	10.8	(0.16)	11.7	(0.35)
Spain.....	6.2	11.4	6.7	11.6	7.0	12.0	7.2	11.7	7.5	11.6	8.3	12.8	8.7	13.2	9.0	13.0	9.2	13.0	9.5	(0.05)	13.2	(0.11)
Sweden.....	15.6	20.7	14.7	17.1	14.8	17.1	14.9	16.7	15.2	16.4	9.1	8.9	8.8	8.5	8.7	8.5	8.6	8.4	8.7	(0.07)	8.5	(0.15)
Switzerland.....	9.1	9.3	9.6	9.7	9.0	9.6	9.4	9.8	10.1	10.2	9.7	9.1	9.9	9.0	10.0	9.5	10.4	9.7	10.3	(0.17)	9.4	(0.36)
United Kingdom.....	8.2	8.4	8.0	9.0	8.3	8.1	8.7	8.9	8.8	8.7	8.8	8.1	8.7	8.2	9.1	7.7	9.0	7.7	10.0	(0.06)	8.5	(0.12)
United States.....	8.3	8.7	9.0	9.2	9.1	8.7	9.0	8.6	9.3	8.8	9.4	9.0	9.6	9.3	9.4	9.3	9.6	9.3	9.8	(0.08)	8.9	(0.15)
Other reporting countries																						
Russian Federation.....	—	—	—	—	33.5	34.2	—	—	—	—	—	—	—	—	—	—	—	—	—	(†)	—	(†)

—Not available.

†Not applicable.

#Rounds to zero.

<sup>1</sup>Refers to the mean of the data values for all reporting 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.

<sup>2</sup>Data from 1998 reported for 1999.

<sup>3</sup>Data from 2000 reported for 2001.

NOTE: Data in this table refer to degrees classified by OECD as International Standard Classification of Education (ISCED) level 5B. ISCED level 5B corresponds to the associate's degree in the United States in this table. Standard errors appear in parentheses.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2001 through 2011. (This table was prepared July 2011.)

Table 424. Number of bachelor's degree recipients per 100 persons at the typical age of graduation, by sex and country: 2003 through 2008

Country	Typical age of graduation, 2008	Total						Male						Female					
		2003	2004	2005	2006	2007	2008	2003	2004	2005	2006	2007	2008	2003	2004	2005	2006	2007	2008
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<b>OECD average<sup>1</sup></b>	—	—	<b>33.9</b>	<b>34.7</b>	<b>36.2</b>	<b>37.5</b>	<b>39.1</b>	—	<b>27.6</b>	<b>27.5</b>	<b>28.7</b>	<b>30.0</b>	<b>31.0</b>	—	<b>40.5</b>	<b>42.3</b>	<b>44.0</b>	<b>45.3</b>	<b>47.5</b>
Australia.....	21–23	54.8	46.9	59.9	59.6	60.7	58.9	46.7	37.4	47.9	47.4	48.6	47.0	63.4	57.0	72.5	72.5	73.4	71.4
Austria.....	22–26	19.0	19.6	20.4	21.7	22.4	25.8	18.7	19.0	19.0	20.4	20.8	22.7	19.4	20.3	21.8	22.9	24.0	29.1
Belgium (Flemish).....	22–24	—	18.3	18.4	19.0	35.4	27.0	—	17.5	17.0	17.9	32.6	24.4	—	19.0	19.8	20.2	38.2	29.6
Canada.....	22–24	—	31.5	33.6	39.3	35.2	39.5	—	24.3	25.2	29.5	26.5	29.1	—	39.1	42.2	49.7	44.3	50.6
Chile.....	23–26	—	25.1	11.5	15.0	14.5	14.7	—	22.9	9.7	13.0	11.9	11.7	—	27.5	13.4	17.0	17.3	17.8
Czech Republic.....	22–24	17.3	21.0	26.0	30.7	36.4	39.2	15.9	18.8	22.6	26.5	31.0	32.2	18.8	23.4	29.5	35.2	42.1	46.6
Denmark.....	24–26	38.6	49.9	52.9	50.3	50.9	50.3	25.1	35.6	37.2	37.0	38.3	38.3	52.3	64.4	69.2	63.7	63.9	62.6
Estonia.....	22–24	—	—	28.5	26.4	27.3	23.8	—	—	17.6	15.4	17.6	14.9	—	—	39.5	37.8	37.3	32.8
Finland <sup>2</sup> .....	24–26	55.8	54.7	53.8	57.3	58.8	79.8	40.4	39.5	38.8	40.6	41.3	55.3	72.2	70.5	69.7	74.5	77.4	105.6
France.....	20–25	41.5	40.0	—	34.2	33.8	33.9	34.9	33.4	—	30.6	30.2	30.3	48.4	46.9	—	37.9	37.5	37.6
Germany.....	24–27	19.5	20.6	20.5	21.0	23.2	25.5	19.3	20.3	20.0	20.0	22.0	24.0	19.7	20.9	21.1	22.0	24.4	27.0
Greece.....	22–27	—	19.1	23.9	23.5	21.7	26.6	—	13.3	16.3	16.1	14.7	18.3	—	25.4	32.2	31.7	29.4	35.5
Hungary.....	23–24	33.6	37.3	41.5	38.2	38.8	37.6	24.6	26.6	29.0	26.1	26.2	25.2	43.2	48.4	54.5	51.0	51.8	50.4
Iceland.....	24–26	44.2	50.5	56.3	62.8	62.8	55.9	29.4	31.4	33.6	37.7	38.0	34.1	59.1	70.3	80.5	89.6	88.0	78.9
Ireland.....	21–23	36.8	38.6	40.7	42.8	44.8	46.0	29.7	31.9	33.3	33.4	36.4	36.9	44.0	45.3	48.0	52.5	53.4	55.2
Israel.....	26–29	—	32.3	32.9	33.4	36.1	36.3	—	25.3	25.7	26.8	29.1	29.6	—	39.6	40.2	40.3	43.1	43.1
Italy.....	23–25	27.8	40.1	44.8	42.7	38.7	35.8	24.0	33.3	37.3	35.1	31.6	29.5	31.6	47.2	52.7	50.6	46.1	42.3
Japan.....	21–23	34.4	36.3	36.9	38.7	38.8	40.6	40.1	41.4	41.3	42.8	42.9	44.9	28.5	31.0	32.2	34.3	34.4	36.0
Korea, Republic of.....	22–24	31.7	32.3	35.5	41.0	42.9	48.7	32.1	31.5	34.8	40.2	42.7	49.0	31.2	33.2	36.2	41.7	43.2	48.5
Mexico.....	23–26	14.3	13.8	15.2	18.1	18.2	17.8	13.3	13.1	14.5	16.7	16.8	16.2	15.3	14.4	15.9	19.5	19.7	19.3
Netherlands.....	23	42.5	42.9	47.2	49.2	47.8	46.0	36.4	37.2	40.2	42.9	41.7	39.8	48.7	48.6	54.3	55.7	54.1	52.3
New Zealand.....	21–23	39.0	47.6	49.0	53.5	53.8	50.0	29.1	34.9	36.6	40.6	41.6	37.6	49.1	61.0	62.0	67.0	66.0	63.0
Norway.....	22–25	42.0	43.3	42.1	45.1	45.0	46.1	30.0	31.5	28.8	31.9	31.8	33.9	54.2	55.3	55.8	58.8	58.7	58.8
Poland.....	23–25	—	44.4	45.0	44.8	46.6	48.2	—	32.6	32.8	32.9	34.4	35.0	—	56.6	57.6	57.1	59.2	61.9
Portugal.....	22–24	—	32.9	33.7	34.9	46.0	50.4	—	20.4	21.7	22.7	35.0	40.3	—	45.6	46.0	47.4	57.4	60.9
Slovak Republic.....	21–24	—	28.3	30.1	33.7	37.9	57.6	—	24.4	25.6	26.0	26.8	38.7	—	32.4	34.8	41.8	49.6	77.3
Slovenia.....	25–26	—	—	21.6	21.6	21.1	22.6	—	—	14.3	14.2	13.9	14.4	—	—	29.4	29.3	29.0	31.7
Spain.....	20–22	32.0	35.2	35.0	35.3	34.7	35.5	25.5	27.5	27.1	27.1	26.6	27.3	38.9	43.2	43.3	43.8	43.3	44.2
Sweden.....	25	38.4	39.9	44.0	43.3	42.2	40.9	28.6	29.7	30.8	29.8	29.1	27.9	48.5	50.5	57.6	57.2	55.8	54.7
Switzerland.....	24–27	20.9	22.4	25.0	27.0	28.9	30.6	23.5	24.0	26.1	26.8	28.7	29.2	18.4	20.9	23.9	27.1	29.2	32.0
Turkey.....	23	—	14.0	11.3	15.4	17.0	19.5	—	15.2	11.8	16.3	17.9	20.6	—	12.7	10.7	14.5	15.9	18.4
United Kingdom.....	20–24	—	39.2	39.8	39.0	39.0	40.2	—	34.2	34.1	33.0	32.9	33.5	—	44.3	45.7	45.2	45.4	47.2
United States.....	21–23	33.4	33.2	34.2	35.5	36.5	37.3	27.6	27.5	28.1	29.1	30.1	31.0	39.4	39.2	40.7	42.4	43.4	43.9
<b>Other reporting countries</b>																			
Brazil.....	22	—	15.6	17.5	21.3	22.7	25.6	—	11.8	13.3	16.2	18.4	19.9	—	19.4	21.6	26.4	27.0	31.3
Russian Federation.....	21–22	—	—	45.9	43.7	48.6	52.7	—	—	—	—	—	—	—	—	—	—	—	—

—Not available.

<sup>1</sup>Refers to the mean of the data values for all reporting 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 that were members of OECD in a given year, the average for that year is omitted.

<sup>2</sup>Much of the increase in Finnish degree recipients between 2007 and 2008 occurred because students had a strong incentive to complete their degrees in 2008. Structural changes in the Finnish higher education system went into effect in 2009. 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.

NOTE: Data in this table refer to degrees classified by the Organization for Economic Cooperation and Development (OECD) as International Standard Classification of Education (ISCED) 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 age of graduation. The typical age 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. This age 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 of graduation in previous years. Data for Luxembourg are not shown because tertiary students study for only 1 year in Luxembourg. Some data have been revised from previously published figures.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2005 through 2011; and Online Education Database, retrieved June 21, 2011, from <http://stats.oecd.org/Index.aspx>. (This table was prepared June 2011.)

**Table 425. Percentage of bachelor's and higher level degrees awarded to women, by field of study and country: 2009**

Country	All fields <sup>1</sup>	Education	Humanities and arts	Health and welfare	Social sciences, business and law	Services	Engineering, manufacturing, and construction	Sciences, mathematics, and computer science					Agriculture
								Total	Life sciences	Physical sciences	Mathematics and statistics	Computer science	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>OECD average<sup>2</sup></b>	<b>58.0</b>	<b>76.8</b>	<b>65.8</b>	<b>74.8</b>	<b>57.5</b>	<b>54.0</b>	<b>26.3</b>	<b>40.6</b>	<b>63.4</b>	<b>43.8</b>	<b>45.8</b>	<b>19.2</b>	<b>52.2</b>
Australia <sup>3</sup>	56.2	74.0	64.1	75.6	53.4	54.0	24.8	37.1	55.2	49.5	37.7	19.6	57.2
Austria	54.2	80.3	65.6	67.1	57.6	38.7	25.5	33.3	68.5	31.4	37.7	17.5	62.2
Belgium	54.8	75.8	64.2	64.1	57.8	40.7	27.2	38.3	56.9	33.4	43.1	6.8	49.2
Canada <sup>3</sup>	59.8	76.8	64.6	83.2	57.9	60.4	23.5	49.3	62.7	45.0	42.4	17.8	57.7
Chile	57.5	74.3	61.3	70.4	52.6	45.5	27.5	35.8	58.4	40.6	47.3	22.1	46.4
Czech Republic	59.0	78.5	69.7	81.1	66.0	42.4	25.6	39.0	70.5	49.1	51.9	13.3	57.6
Denmark	60.2	72.5	64.9	80.1	52.4	24.2	31.8	37.2	62.5	38.2	42.6	20.2	73.6
Estonia	68.7	92.1	79.6	84.0	71.4	68.8	37.6	50.4	74.8	47.6	72.9	28.8	53.4
Finland	62.7	83.6	74.0	85.6	68.0	77.6	22.8	46.0	76.4	48.4	47.8	27.0	59.1
France	54.0	74.6	72.2	59.3	59.5	42.3	28.8	38.4	62.8	38.8	38.6	16.5	54.4
Germany	55.1	72.5	73.3	68.4	52.1	55.9	22.3	43.8	66.6	42.8	62.7	15.6	53.4
Hungary	65.0	78.7	74.7	80.4	70.4	59.9	24.2	35.0	66.2	44.8	45.6	19.5	50.3
Iceland	66.2	84.5	63.6	85.4	62.1	84.6	35.3	40.2	67.6	35.8	11.1	21.1	26.7
Ireland	59.5	74.2	65.5	83.1	55.1	54.3	21.2	44.1	57.6	41.5	46.7	23.4	51.3
Israel	57.4	83.3	60.2	77.8	55.1	76.1	24.2	46.8	63.0	45.1	44.1	24.6	56.4
Japan	41.1	59.3	68.1	56.6	34.4	90.6	10.8	25.2	—	—	—	—	38.7
Korea, Republic of	46.4	71.6	66.3	63.0	42.1	33.6	22.5	38.6	47.9	45.9	56.5	20.1	38.1
Mexico	54.8	72.0	58.9	64.1	58.8	59.7	28.3	42.8	58.5	55.6	42.8	36.4	34.8
Netherlands	56.5	81.1	56.7	75.2	52.4	53.4	18.7	21.1	58.0	25.3	31.1	10.2	51.7
New Zealand	61.0	81.2	65.0	79.5	57.5	52.2	29.8	44.4	60.0	43.2	48.7	23.0	47.8
Norway	61.3	74.5	58.7	82.4	55.8	41.9	24.5	36.5	70.5	42.2	33.6	13.1	59.5
Poland	65.0	77.8	76.1	72.8	68.2	54.9	33.6	44.0	72.4	64.3	67.5	16.3	56.3
Portugal	59.1	85.3	60.9	78.5	63.4	46.3	29.4	55.9	70.4	52.8	69.7	26.9	55.1
Slovak Republic	64.2	78.2	66.7	85.9	68.6	45.0	31.1	42.1	68.4	50.7	56.0	10.6	42.8
Slovenia	65.3	84.2	75.6	72.9	68.3	57.7	31.0	45.5	71.2	45.6	51.1	10.4	59.8
Spain	59.9	78.7	64.5	75.9	60.7	58.2	33.9	41.5	67.3	53.4	53.1	19.7	50.2
Sweden	64.0	79.3	61.3	82.3	62.0	59.0	28.4	46.4	65.8	49.1	34.7	24.1	61.3
Switzerland	49.7	74.3	62.1	68.3	46.8	47.5	19.1	32.8	50.5	31.2	27.5	8.9	63.5
Turkey	46.0	54.6	60.1	62.6	42.4	32.6	26.7	44.3	61.9	41.7	46.4	23.3	34.9
United Kingdom	55.7	76.3	62.2	74.1	54.8	60.3	22.5	38.2	51.7	42.6	40.7	19.0	63.9
United States	57.6	77.7	58.9	79.3	54.2	55.3	21.4	43.5	58.6	39.3	41.9	20.8	49.7
<b>Other reporting countries</b>													
Brazil	62.9	79.7	58.2	75.2	55.7	70.7	28.8	40.4	70.7	44.6	44.0	17.9	39.6
China	46.7	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia <sup>3</sup>	47.2	49.6	47.0	47.1	47.9	#	44.9	47.1	#	47.1	47.0	47.1	47.1

—Not available.

#Rounds to zero.

<sup>1</sup>May contain fields not shown in this table.

<sup>2</sup>Refers to the mean of the data values for all reporting OECD countries, to which each country reporting data contributes equally.

<sup>3</sup>Data are for 2008 instead of 2009.

NOTE: Data in this table refer to degrees classified by the Organization for Economic Cooperation and Development (OECD) as International Standard Classification of Educa-

tion (ISCED) level 5A (first and second award) or level 6. ISCED 5A, first award, corresponds to the bachelor's degree in the United States; ISCED 5A, second award, corresponds to master's and first-professional degrees in the United States; and ISCED 6 corresponds to doctor's degrees. Data for Greece, Italy, and Luxembourg are not available. SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance, 2011*. (This table was prepared July 2011.)

Table 426. Percentage of bachelor's degrees awarded in mathematics and science, by field of study and country: Selected years, 1990 through 2008

Country	All mathematics and science degrees <sup>1</sup>						Natural sciences <sup>2</sup>						Mathematics and computer science <sup>3</sup>						Engineering					
	1990	1995	2000	2005	2007	2008	1990	1995	2000	2005	2007	2008	1990	1995	2000	2005	2007	2008	1990	1995	2000	2005	2007	2008
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
<b>OECD average<sup>4</sup></b> .....	—	—	<b>22.7</b>	<b>22.7</b>	<b>22.2</b>	<b>21.9</b>	—	—	<b>5.7</b>	<b>4.8</b>	<b>4.6</b>	<b>4.7</b>	—	—	<b>4.1</b>	<b>5.3</b>	<b>5.0</b>	<b>4.8</b>	—	—	<b>13.6</b>	<b>12.8</b>	<b>12.6</b>	<b>12.4</b>
Australia .....	—	19.3	21.1	21.1	20.3	19.2	—	9.9	7.6	5.9	6.5	6.4	—	3.8	5.1	8.2	6.6	5.7	—	5.6	8.5	7.0	7.2	7.0
Austria .....	19.6	21.1	25.7	26.8	28.6	25.6	5.3	6.0	5.0	5.4	4.7	4.7	5.2	5.3	3.4	7.2	8.7	6.9	9.0	9.9	17.3	14.2	15.2	13.9
Belgium .....	—	—	23.6	24.7	24.2	21.3	—	—	6.4	5.7	5.4	3.8	—	—	2.3	5.2	3.7	2.5	—	—	14.9	13.8	15.1	15.0
Canada .....	16.4	16.7	20.0	20.7	21.1	20.5	6.0	6.5	8.1	6.5	8.9	9.4	4.2	3.8	4.3	5.9	4.6	3.6	6.2	6.4	7.6	8.2	7.7	7.5
Chile .....	—	—	—	22.9	19.9	20.0	—	—	—	3.2	1.8	2.0	—	—	—	2.6	2.1	2.3	—	—	—	17.2	16.0	15.6
Czech Republic .....	( <sup>5</sup> )	—	29.5	26.7	27.5	29.1	( <sup>5</sup> )	—	4.2	3.9	3.4	4.6	( <sup>5</sup> )	—	8.4	3.8	4.9	5.5	( <sup>5</sup> )	—	16.9	19.0	19.2	18.9
Denmark .....	—	—	10.5	16.3	19.0	18.7	4.4	2.5	6.8	2.4	2.7	2.7	—	—	3.1	3.1	2.3	2.7	21.7	17.0	—	10.8	13.9	13.3
Estonia .....	( <sup>5</sup> )	—	—	23.8	21.9	21.8	( <sup>5</sup> )	—	—	6.3	5.4	5.6	( <sup>5</sup> )	—	—	6.2	6.2	6.0	( <sup>5</sup> )	—	—	11.3	10.3	10.2
Finland .....	33.5	37.2	32.2	30.0	28.4	26.6	4.1	4.0	3.9	2.7	2.9	5.0	5.9	6.9	3.3	5.6	5.2	6.4	23.4	26.3	24.9	21.7	20.2	15.1
France .....	—	—	30.1	26.0	26.3	26.1	—	—	12.2	6.5	6.6	6.3	—	—	5.5	5.5	5.6	5.5	—	—	12.5	14.0	14.1	14.3
Germany .....	31.3	31.6	31.7	31.3	27.4	28.2	7.2	6.7	6.4	6.3	6.7	7.6	3.5	5.2	4.9	8.1	8.3	8.2	20.5	19.7	20.3	16.9	12.4	12.4
Greece .....	—	—	—	25.9	22.1	23.8	—	—	—	8.3	4.8	5.3	—	—	—	8.4	6.7	7.4	—	—	—	9.2	10.6	11.2
Hungary .....	—	—	12.6	11.0	15.3	15.1	—	—	1.1	1.2	1.3	1.4	—	—	1.2	2.4	5.9	5.3	—	—	10.4	7.4	8.1	8.4
Iceland .....	—	—	16.5	14.1	13.5	14.9	—	—	6.0	5.0	3.9	3.2	—	—	4.0	3.5	2.9	3.2	—	—	6.5	5.5	6.7	8.5
Ireland .....	34.1	32.3	29.3	17.7	22.7	22.8	14.1	16.9	11.5	3.5	—	—	6.3	4.7	7.2	4.4	—	—	13.7	10.7	10.6	9.9	6.9	9.5
Israel .....	—	—	19.0	26.7	21.7	21.0	—	—	3.1	5.1	5.5	5.2	—	—	6.8	7.5	4.1	4.1	—	—	9.1	14.1	12.1	11.7
Italy .....	19.7	19.5	27.5	23.9	22.3	22.0	7.6	6.8	5.9	4.8	4.6	4.8	3.9	3.8	3.2	2.2	2.1	2.1	8.3	8.9	18.4	16.9	15.6	15.1
Japan .....	—	—	22.3	20.8	20.1	20.0	2.4	3.4	—	—	—	—	—	—	—	—	—	—	21.0	19.3	18.9	17.4	16.7	16.6
Korea, Republic of .....	—	—	36.9	37.0	35.6	35.1	—	—	6.3	5.2	5.2	4.8	—	—	4.3	5.4	5.9	5.9	—	—	26.3	26.3	24.5	24.5
Mexico .....	—	—	23.0	27.3	26.5	26.8	—	—	2.2	2.6	2.7	2.8	—	—	6.7	9.3	8.5	8.3	—	—	14.1	15.3	15.4	15.7
Netherlands .....	21.1	—	16.2	14.9	14.0	13.7	7.1	—	3.2	2.5	1.3	1.2	1.6	1.6	1.9	4.6	4.9	4.8	12.4	—	11.1	7.7	7.7	7.7
New Zealand .....	19.5	—	17.8	19.9	17.6	20.7	8.2	—	11.2	6.7	6.2	7.7	5.5	—	1.9	7.6	5.5	5.7	5.8	3.2	4.7	5.6	5.9	7.3
Norway .....	12.9	16.8	11.6	13.7	12.8	13.4	2.1	3.1	0.7	0.8	1.6	1.7	0.6	0.5	3.4	4.7	3.0	3.2	10.2	13.2	7.5	8.2	8.2	8.5
Poland .....	—	—	16.7	17.7	21.4	19.9	—	—	2.7	2.3	3.9	3.8	—	—	2.0	5.3	5.6	5.0	—	—	12.0	10.1	12.0	11.1
Portugal .....	—	15.0	17.5	25.6	32.7	34.2	6.7	2.2	1.7	6.0	4.9	5.5	—	2.8	3.6	6.2	7.6	8.0	10.5	9.9	12.2	13.4	20.3	20.7
Slovak Republic .....	( <sup>5</sup> )	—	21.9	24.6	21.1	19.0	( <sup>5</sup> )	—	2.0	3.7	3.4	3.3	( <sup>5</sup> )	—	4.6	4.4	5.1	4.0	( <sup>5</sup> )	—	15.3	16.5	12.7	11.7
Slovenia .....	( <sup>5</sup> )	—	—	17.7	17.4	16.9	( <sup>5</sup> )	—	—	4.1	3.8	3.0	( <sup>5</sup> )	—	—	2.0	2.2	2.5	( <sup>5</sup> )	—	—	11.7	11.4	11.4
Spain .....	15.0	18.2	22.7	24.1	24.8	24.1	5.7	4.3	5.3	4.2	3.8	3.6	2.6	4.5	4.3	5.2	5.6	5.5	6.7	9.4	13.1	14.7	15.3	15.0
Sweden .....	24.0	26.4	27.7	26.9	24.4	22.9	4.1	3.9	3.7	3.6	3.5	3.5	4.7	5.5	3.7	4.0	3.3	2.6	15.2	17.0	20.3	19.2	17.6	16.9
Switzerland .....	23.0	22.3	25.1	24.2	23.0	20.8	11.2	10.4	6.0	6.9	6.3	6.2	3.7	3.7	1.8	4.7	4.2	3.9	8.1	8.3	17.3	12.7	12.5	10.7
Turkey .....	20.6	20.9	24.1	22.3	17.4	18.0	4.6	5.1	7.4	6.1	5.2	5.3	2.1	2.7	3.6	4.1	3.3	3.5	13.8	13.1	13.1	12.0	8.9	9.2
United Kingdom .....	—	—	28.5	26.0	24.6	24.0	—	—	12.5	9.2	9.1	9.2	—	—	5.8	8.3	6.9	6.2	—	—	10.2	8.4	8.5	8.6
United States .....	16.9	—	17.1	16.7	16.1	15.8	5.1	—	6.6	5.8	6.3	6.4	4.0	3.3	3.9	4.8	3.7	3.4	7.8	6.7	6.6	6.2	6.0	6.0
<b>Other reporting countries</b>																								
Brazil .....	—	—	—	11.4	11.6	11.1	—	—	—	3.2	3.2	3.3	—	—	—	3.5	3.1	2.9	—	—	—	4.8	5.3	4.9
Russian Federation .....	( <sup>5</sup> )	—	—	—	—	—	( <sup>5</sup> )	—	—	—	—	—	( <sup>5</sup> )	—	—	—	—	—	( <sup>5</sup> )	—	—	—	—	—

—Not available.

<sup>1</sup>Includes life sciences, physical sciences, mathematics/statistics, computer science, and engineering.<sup>2</sup>Includes life sciences and physical sciences.<sup>3</sup>Includes mathematics/statistics and computer science.<sup>4</sup>Refers to the mean of the data values for all reporting 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 that were members of OECD in a given year, the average for that year is omitted.<sup>5</sup>Country did not exist in its current form in the given year.

NOTE: Data in this table refer to degrees classified by the Organization for Economic Cooperation and Development (OECD) as International Standard Classification of Education (ISCED) level 5A, first award. This level corresponds to the bachelor's degree in the United States. Data for Luxembourg are not shown because tertiary students study for only 1 year in Luxembourg. Some data have been revised from previously published figures. Detail may not sum to totals because of rounding.

SOURCE: Organization for Economic Cooperation and Development (OECD), Online Education Database, retrieved May 10, 2011, from <http://stats.oecd.org/Index.aspx>; and unpublished tabulations. (This table was prepared May 2011.)

Table 427. Percentage of graduate degrees awarded in mathematics and science, by field of study and country: Selected years, 1990 through 2008

	All mathematics and science degrees <sup>1</sup>						Natural sciences <sup>2</sup>						Mathematics and computer science <sup>3</sup>						Engineering					
Country	1990	1996	2000	2005	2007	2008	1990	1996	2000	2005	2007	2008	1990	1996	2000	2005	2007	2008	1990	1996	2000	2005	2007	2008
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
OECD average <sup>4</sup> .....	—	—	28.5	24.7	23.4	23.3	—	—	11.1	8.9	8.0	7.4	—	—	5.4	4.9	5.0	5.0	—	—	12.7	11.4	10.8	11.2
Australia.....	—	14.0	15.2	20.0	21.0	18.8	—	5.4	4.0	3.1	2.9	3.1	—	3.8	4.9	8.7	10.8	8.3	—	4.7	6.3	8.1	7.3	7.5
Austria.....	37.7	38.8	39.2	38.6	47.2	31.8	12.3	17.5	16.7	15.0	12.3	7.5	4.6	4.7	4.7	6.6	15.4	11.3	20.8	16.6	17.7	16.9	19.5	13.0
Belgium.....	—	—	19.7	18.7	18.9	18.0	—	—	—	9.3	8.9	5.4	—	—	—	3.3	4.0	3.7	—	—	7.0	6.2	6.0	8.9
Canada.....	20.0	22.3	22.4	18.8	27.4	26.3	7.8	7.7	7.4	5.0	10.1	9.9	3.4	3.5	4.1	4.0	4.6	4.3	8.8	11.2	10.9	9.8	12.7	12.1
Chile.....	—	—	—	8.5	11.2	11.4	—	—	—	2.2	3.4	2.8	—	—	—	1.6	2.6	2.3	—	—	—	4.6	5.2	6.3
Czech Republic.....	<sup>(5)</sup>	—	21.0	26.1	17.9	22.2	<sup>(5)</sup>	—	5.3	8.3	4.0	5.7	<sup>(5)</sup>	—	7.9	5.6	3.0	3.8	<sup>(5)</sup>	—	7.7	12.3	10.9	12.7
Denmark.....	22.2	12.3	27.8	23.4	21.8	21.3	5.8	3.1	9.8	7.5	7.0	5.9	4.8	1.5	2.5	9.2	7.8	7.6	11.6	7.8	15.4	6.7	7.0	7.8
Estonia.....	<sup>(5)</sup>	—	—	23.9	27.4	28.6	<sup>(5)</sup>	—	—	10.0	10.8	8.2	<sup>(5)</sup>	—	—	5.0	6.0	7.7	<sup>(5)</sup>	—	—	8.9	10.6	12.6
Finland.....	30.6	28.3	28.7	30.5	34.7	31.7	14.7	11.6	11.3	11.6	14.1	12.5	5.4	4.0	2.4	4.1	4.7	4.0	10.5	12.7	14.9	14.8	15.9	15.2
France.....	—	—	26.4	28.4	29.6	28.8	—	—	13.5	12.5	11.0	10.8	—	—	5.6	7.0	7.0	6.8	—	—	7.3	8.9	11.6	11.2
Germany.....	33.2	38.6	38.1	30.9	32.4	33.7	23.5	25.5	24.9	14.8	14.3	15.1	2.3	3.5	3.7	4.8	6.0	6.3	7.4	9.5	9.5	11.3	12.1	12.3
Greece.....	—	—	—	42.8	26.9	33.0	—	—	—	22.3	8.2	6.2	—	—	—	5.3	8.3	11.0	—	—	—	15.2	10.4	15.7
Hungary.....	—	—	9.9	6.4	7.7	8.3	—	—	1.7	1.8	2.5	2.6	—	—	0.7	1.7	2.0	1.4	—	—	7.5	2.9	3.3	4.4
Iceland.....	—	—	35.9	23.0	10.6	10.6	—	—	19.4	9.5	5.3	5.8	—	—	#	3.0	1.4	1.1	—	—	16.5	10.5	3.9	3.7
Ireland.....	34.5	23.1	28.1	16.8	17.9	19.0	19.5	10.9	6.9	4.1	—	—	5.8	3.0	15.2	6.3	—	—	9.3	9.2	6.0	6.4	5.1	6.1
Israel.....	—	—	18.1	17.9	18.6	18.6	—	—	9.2	8.9	9.3	9.2	—	—	2.8	3.2	3.6	3.3	—	—	6.1	5.9	5.7	6.0
Italy.....	—	—	11.7	15.9	18.6	—	—	—	0.3	3.5	4.7	—	—	—	5.8	3.5	2.7	—	—	—	5.7	8.9	11.3	—
Japan.....	—	—	54.4	50.9	47.6	47.1	9.5	10.2	—	—	—	—	—	—	—	—	—	—	45.1	44.4	41.9	38.0	35.3	34.7
Korea, Republic of.....	—	—	48.4	43.9	38.7	24.1	—	—	8.5	9.5	8.1	4.4	—	—	5.7	2.0	1.6	1.2	—	—	34.3	32.4	29.0	18.4
Mexico.....	—	—	31.4 <sup>6</sup>	14.7	12.9	12.1	—	—	18.9 <sup>6</sup>	3.3	3.2	2.9	—	—	4.1 <sup>6</sup>	3.2	2.5	3.3	—	—	8.4 <sup>6</sup>	8.2	7.1	5.9
Netherlands.....	28.9	18.6	—	21.3	14.8	14.6	17.7	4.4	—	—	—	—	1.5	3.7	—	—	—	—	9.7	10.6	—	11.9	7.5	7.6
New Zealand.....	22.6	16.7	20.5	16.6	16.3	18.5	13.8	12.7	11.6	7.2	8.4	9.1	4.7	1.1	1.4	5.2	4.0	4.1	4.0	3.0	7.5	4.2	3.9	5.3
Norway.....	33.4	38.3	22.0	25.8	22.1	22.2	8.0	8.7	14.9	7.8	6.7	6.1	2.1	1.9	4.6	11.9	10.3	10.8	23.3	27.7	2.5	6.1	5.1	5.3
Poland.....	—	—	—	9.1	10.6	11.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.5	4.3	5.0
Portugal.....	—	—	39.3 <sup>6</sup>	33.8	39.4	49.2	—	—	11.7 <sup>6</sup>	12.0	13.6	12.2	—	—	9.4 <sup>6</sup>	10.0	9.4	11.2	—	—	18.2 <sup>6</sup>	11.9	16.4	25.8
Slovak Republic.....	<sup>(5)</sup>	—	38.1	36.8	31.7	28.0	<sup>(5)</sup>	—	12.6	10.8	7.5	6.3	<sup>(5)</sup>	—	4.7	4.2	2.6	2.2	<sup>(5)</sup>	—	20.9	21.8	21.6	19.6
Slovenia.....	<sup>(5)</sup>	—	—	24.2	21.2	19.9	<sup>(5)</sup>	—	—	6.4	7.1	7.2	<sup>(5)</sup>	—	—	4.2	4.3	2.7	<sup>(5)</sup>	—	—	13.6	9.9	10.1
Spain.....	26.9	36.0	—	37.5 <sup>6</sup>	19.3 <sup>6</sup>	26.6	19.7	24.8	23.9 <sup>6</sup>	23.8 <sup>6</sup>	12.6 <sup>6</sup>	14.0	1.4	4.1	5.4 <sup>6</sup>	4.6 <sup>6</sup>	2.3 <sup>6</sup>	3.9	5.7	7.1	6.8 <sup>6</sup>	9.1 <sup>6</sup>	4.5 <sup>6</sup>	8.7
Sweden.....	48.5	32.3	40.5	23.7	26.3	28.1	19.4	9.2	14.3	8.0	8.1	8.5	9.2	5.9	4.0	2.8	4.0	4.0	19.9	17.1	22.2	12.9	14.2	15.6
Switzerland.....	30.2	40.1	42.7	32.0	30.8	28.9	22.0	25.8	11.7	11.7	12.4	12.4	1.7	4.1	19.5	3.4	3.3	3.1	6.5	10.1	11.6	16.9	15.1	13.3
Turkey.....	24.0	—	25.7	21.4	18.7	18.8	7.6	—	7.6	6.7	5.2	5.4	3.3	—	3.0	3.4	3.2	3.1	13.2	—	15.2	11.2	10.3	10.4
United Kingdom.....	—	—	21.7	20.3	19.9	20.3	—	—	7.4	5.5	5.6	5.5	—	—	5.0	5.7	5.1	5.2	—	—	9.2	9.0	9.3	9.7
United States.....	14.5	13.8	13.0	13.5	12.7	13.0	4.2	4.0	3.4	3.3	3.4	3.5	3.4	3.2	3.4	3.5	3.2	3.2	6.9	6.7	6.2	6.7	6.1	6.3

—Not available.

#Rounds to zero.

<sup>1</sup>Includes life sciences, physical sciences, mathematics/statistics, computer science, and engineering.<sup>2</sup>Includes life sciences and physical sciences.<sup>3</sup>Includes mathematics/statistics and computer science.

<sup>4</sup>Refers to the mean of the data values for all reporting 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 that were members of OECD in a given year, the average for that year is omitted.

<sup>5</sup>Country did not exist in its current form in the given year.<sup>6</sup>Only includes doctor's (Ph.D.) degrees.

NOTE: Data in this table refer to degrees classified by the Organization for Economic Cooperation and Development (OECD) as International Standard Classification of Education (ISCED) level 5A, second award, and as ISCED 6. ISCED 5A, second award, corresponds to master's and first-professional degrees in the United States, and ISCED 6 corresponds to doctor's degrees. Data for Luxembourg are not shown because tertiary students study for only 1 year in Luxembourg. Some data have been revised from previously published figures. Detail may not sum to totals because of rounding.

SOURCE: Organization for Economic Cooperation and Development (OECD), Online Education Database, retrieved May 26, 2011, from <http://stats.oecd.org/Index.aspx>; and unpublished tabulations. (This table was prepared May 2011.)

**Table 428. Employment rates of 25- to 64-year-olds, by sex, highest level of educational attainment, and country: 2009**

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
<b>OECD average<sup>1</sup></b>	<b>72.7</b>	<b>56.0</b>	<b>74.2</b>	<b>83.6</b>	<b>80.5</b>	<b>67.1</b>	<b>81.5</b>	<b>88.1</b>	<b>65.0</b>	<b>46.0</b>	<b>66.2</b>	<b>79.1</b>
Australia	77.6	66.1	80.2	84.3	85.0	76.5	87.2	89.1	70.4	57.7	70.7	80.2
Austria	75.3	55.6	77.6	86.7	81.1	65.0	81.5	89.3	69.6	50.7	73.2	83.4
Belgium	69.8	48.0	74.0	84.2	76.2	58.7	80.5	87.2	63.3	37.0	66.8	81.6
Canada	75.4	55.1	73.7	81.7	78.9	63.1	78.0	84.5	71.9	45.4	68.7	79.4
Chile	68.4	58.3	69.2	78.0	85.7	82.3	87.6	85.3	51.6	36.2	51.7	70.6
Czech Republic	73.8	43.9	75.1	84.3	83.4	53.6	84.0	91.0	64.1	39.1	65.5	76.9
Denmark	78.8	64.6	79.7	87.4	81.9	71.0	82.3	89.1	75.6	59.0	76.4	86.0
Estonia	72.9	47.4	71.6	82.8	73.8	51.7	72.9	87.4	72.2	41.4	70.1	80.4
Finland	75.1	56.8	74.8	84.4	76.4	60.0	76.6	86.9	73.8	52.5	72.7	82.6
France	72.5	56.2	76.5	83.5	78.3	63.8	82.6	86.8	67.0	49.4	70.1	80.8
Germany	75.4	54.9	75.5	86.4	81.3	64.9	80.3	89.7	69.5	48.0	70.7	82.2
Greece	68.3	59.7	68.4	82.2	82.0	78.0	83.3	86.6	54.6	40.0	54.8	77.7
Hungary	63.6	37.4	67.0	78.8	70.5	45.5	73.1	83.7	57.0	31.9	60.0	75.1
Iceland	82.6	77.1	82.6	88.3	85.9	81.2	86.9	89.9	79.1	73.0	76.5	86.9
Ireland	68.3	50.0	69.1	82.0	74.3	59.9	76.3	86.0	62.3	37.7	62.0	78.5
Israel	70.5	44.3	69.0	82.4	77.0	59.6	75.6	87.0	64.3	26.5	62.1	78.7
Italy	64.0	51.2	73.1	79.2	76.6	69.2	82.5	84.9	51.6	32.9	63.6	74.7
Japan	76.0	—	73.1	79.7	88.7	—	85.8	92.3	63.3	—	60.8	66.6
Korea, Republic of	71.2	65.3	69.6	76.1	84.9	77.2	84.1	88.3	57.6	57.6	55.6	60.1
Luxembourg	73.4	61.6	70.2	85.1	82.5	74.9	79.2	90.6	64.1	51.2	60.9	78.6
Mexico	66.8	61.7	71.9	81.7	87.9	87.2	89.8	88.7	48.4	40.7	57.7	73.0
Netherlands	79.0	63.6	81.7	88.1	85.7	77.7	86.8	90.2	72.2	51.2	76.6	85.7
New Zealand	79.3	69.0	82.4	84.0	86.0	77.1	88.4	90.1	72.9	62.1	74.4	79.3
Norway	82.3	65.4	83.1	90.2	84.8	69.6	86.0	91.8	79.7	61.2	79.4	88.9
Poland	67.4	41.6	66.3	85.3	75.2	53.4	75.1	89.9	59.8	31.0	56.9	82.1
Portugal	73.3	69.0	80.1	86.7	79.0	76.5	83.8	87.6	67.8	61.1	76.5	86.1
Slovak Republic	70.0	30.3	72.0	83.2	78.6	39.0	80.0	89.4	61.5	25.2	63.5	77.7
Slovenia	74.3	53.7	74.6	88.4	78.0	62.5	78.0	90.3	70.5	46.4	70.3	87.1
Spain	65.7	54.0	70.6	81.1	73.6	65.7	77.0	84.6	57.6	41.6	64.0	77.8
Sweden	81.1	64.2	81.3	88.1	83.7	71.9	84.3	89.2	78.4	54.4	77.7	87.2
Switzerland	82.6	67.5	81.7	89.6	89.3	77.6	88.4	92.9	75.8	61.6	75.9	84.4
Turkey	52.0	46.3	58.3	73.6	73.5	70.5	77.9	80.6	27.2	21.8	27.2	63.1
United Kingdom	75.0	56.9	78.3	84.5	81.0	66.7	82.7	88.1	69.0	49.4	73.1	81.0
United States	71.9	52.5	68.9	80.8	76.4	61.6	72.9	85.4	67.6	41.9	64.8	76.7
<b>Other reporting countries</b>												
Brazil	73.2	68.7	77.4	85.6	86.3	84.4	88.8	91.3	61.2	53.5	67.7	81.5

—Not available.

<sup>1</sup>Refers to the mean of the data values for all reporting OECD countries, to which each country reporting data contributes equally.

NOTE: The "high school completion" columns include International Standard Classification of Education (ISCED) 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" columns in this table.)

ISCED level 5B corresponds to the associate's degree in the United States in this table. Also included in the "associate's or higher degree" columns are the following higher level degrees: ISCED 5A, first award, which corresponds to the bachelor's degree in the United States; ISCED 5A, second award, which corresponds to master's and first-professional degrees in the United States; and ISCED 6, which corresponds to doctor's degrees. SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance, 2011*. (This table was prepared July 2011.)



**Table 429. Public and private education expenditures per student, by level of education and country: Selected years, 2000 through 2008**

Country	Elementary education				Secondary education				Higher education			
	2000	2005	2007	2008	2000	2005	2007	2008	2000	2005	2007	2008
1	2	3	4	5	6	7	8	9	10	11	12	13
Current dollars												
<b>OECD average<sup>1</sup></b>	<b>\$4,304</b>	<b>\$5,976</b>	<b>\$6,624</b>	<b>\$7,122</b>	<b>\$5,779</b>	<b>\$7,418</b>	<b>\$8,057</b>	<b>\$8,980</b>	<b>\$9,509</b>	<b>\$11,387</b>	<b>\$12,495</b>	<b>\$13,214</b>
Australia.....	4,967	5,992	6,498	6,723	6,894	8,408	8,840	9,052	12,854	14,579	14,726	15,043
Austria.....	6,560	8,259	8,664	9,542	8,578	9,751	10,641	11,741	10,851	14,775	15,039	15,043
Belgium.....	4,310	6,648	7,363	8,528	6,889 <sup>2</sup>	7,731 <sup>2</sup>	8,992 <sup>2</sup>	10,511 <sup>2</sup>	10,771	11,960	13,482	15,020
Canada.....	—	—	7,648 <sup>3,4</sup>	—	5,947 <sup>5</sup>	7,774 <sup>3,5</sup>	8,388	—	14,983 <sup>2</sup>	23,329 <sup>6,7</sup>	20,903 <sup>8</sup>	—
Chile.....	1,940	2,120	2,088	2,268	2,016	2,077	2,090	2,222	7,483	6,873	6,292	6,626
Czech Republic.....	1,827	2,812	3,359	3,799	3,239	4,847	5,527	6,174	5,431	6,649	8,209	8,318
Denmark.....	7,074	8,513	9,176	10,080	7,726 <sup>8</sup>	9,407 <sup>8</sup>	9,675 <sup>8</sup>	10,720 <sup>8</sup>	11,981 <sup>8</sup>	14,959 <sup>8</sup>	16,466 <sup>8</sup>	17,634 <sup>8</sup>
Estonia.....	—	3,384 <sup>6</sup>	4,058	5,579	—	3,918 <sup>6</sup>	4,869	6,371	—	3,869	5,653 <sup>7</sup>	6,022 <sup>7</sup>
Finland.....	4,317	5,557	6,234	7,092	6,094 <sup>2</sup>	7,324 <sup>2</sup>	7,829 <sup>2</sup>	8,659 <sup>2</sup>	8,244	12,285	13,566	15,402
France.....	4,486	5,365	6,044	6,267	7,636	8,927	9,532	10,231	8,373	10,995	12,773	14,079
Germany.....	4,198	5,014	5,548	5,929	6,826	7,636	7,841	8,606	10,898	12,446	13,823	15,390
Greece.....	3,318 <sup>3,6</sup>	5,146 <sup>3</sup>	—	—	3,859 <sup>6</sup>	8,423	—	—	3,402 <sup>6</sup>	6,130	—	—
Hungary <sup>6</sup> .....	2,245	4,438	4,656	4,495	2,446	3,806	4,225	4,658	7,024	6,244	6,721	7,327
Iceland.....	5,854 <sup>6</sup>	9,254	9,629	10,599	6,518 <sup>6</sup>	8,411 <sup>8</sup>	8,349 <sup>2</sup>	9,007 <sup>2</sup>	7,994 <sup>6</sup>	9,474 <sup>8</sup>	9,309	10,429
Ireland.....	3,385	5,732	6,901	7,795 <sup>6</sup>	4,638	7,500	9,375	10,868 <sup>6</sup>	11,083	10,468	12,631	16,284 <sup>6</sup>
Israel.....	4,351	4,699	5,060	5,314	5,518	5,495	5,741	6,429	11,550	10,919	11,435	12,568
Italy.....	5,973 <sup>6</sup>	6,835 <sup>6</sup>	7,383 <sup>6</sup>	8,671 <sup>6</sup>	7,218 <sup>6</sup>	7,648 <sup>6</sup>	8,004 <sup>6</sup>	9,315 <sup>6</sup>	8,065 <sup>6</sup>	8,026 <sup>6</sup>	8,673	9,553
Japan.....	5,507	6,744	7,247	7,491	6,266 <sup>8</sup>	7,908 <sup>8</sup>	8,760 <sup>8</sup>	9,092 <sup>8</sup>	10,914 <sup>8</sup>	12,326 <sup>8</sup>	14,201 <sup>8</sup>	14,890 <sup>8</sup>
Korea, Republic of.....	3,155	4,691	5,437	5,420	4,069	6,645	7,860	7,931	6,118	7,606	8,920	9,081
Luxembourg <sup>6</sup> .....	—	14,079 <sup>3</sup>	13,985 <sup>3</sup>	13,648	—	18,845	17,928	19,898	—	—	—	—
Mexico.....	1,291	1,913	2,111	2,246	1,615	2,180	2,236	2,333	4,688	6,402	6,971	7,504
Netherlands.....	4,325	6,266	6,552	7,208	5,912	7,741	10,248	10,950	11,934	13,883	15,969	17,245
New Zealand.....	—	4,780	4,675	5,582	—	6,278	5,933	6,994	—	10,262	9,905	10,526
Norway.....	6,550 <sup>6</sup>	9,001	9,922	11,077	8,476 <sup>2,6</sup>	10,995 <sup>2</sup>	11,997 <sup>2</sup>	13,070 <sup>2</sup>	13,353 <sup>6</sup>	15,552	17,140	18,942
Poland <sup>6</sup> .....	2,105	3,312	4,063	4,855	—	3,055	3,590	4,525	3,222	5,593	5,576	7,063
Portugal.....	3,672	4,871 <sup>6</sup>	5,011 <sup>6</sup>	5,234 <sup>6</sup>	5,349	6,473 <sup>6</sup>	6,833 <sup>6</sup>	7,357 <sup>6</sup>	4,766	8,787 <sup>6</sup>	10,398 <sup>6</sup>	10,373 <sup>6</sup>
Slovak Republic.....	1,308	2,806	3,499	4,137	1,927 <sup>2,9</sup>	2,716 <sup>2,9</sup>	3,219 <sup>2,9</sup>	3,956 <sup>2,9</sup>	4,949 <sup>7,9</sup>	5,783 <sup>7,9</sup>	5,736 <sup>7,9</sup>	6,560 <sup>7,9</sup>
Slovenia.....	—	—	—	—	—	7,065 <sup>2,5</sup>	7,267 <sup>2,5</sup>	8,555 <sup>2,5</sup>	—	8,573	8,559	9,263
Spain.....	3,941	5,502	6,533	7,184	5,185 <sup>2</sup>	7,211	8,730	9,792	6,666	10,089	12,548	13,366
Sweden.....	6,336	7,533	8,338	9,080	6,339	8,198	9,143	9,940	15,097	15,946	18,361	20,014
Switzerland <sup>6</sup> .....	6,631	8,469	9,211	9,063	9,780	12,861	13,982	17,825 <sup>2</sup>	18,450	21,734	20,883	21,648
Turkey <sup>6</sup> .....	—	—	—	—	—	—	—	—	4,121	—	—	—
United Kingdom.....	3,877	6,361	8,222	8,758	5,991 <sup>2</sup>	7,167 <sup>2</sup>	8,892 <sup>2</sup>	9,487 <sup>2</sup>	9,657	13,506	15,463	15,310
United States.....	6,995	9,156	10,229	9,982	8,855	10,390	11,301	12,097	20,358 <sup>2</sup>	24,370	27,010	29,910
Constant 2010 dollars												
<b>OECD average<sup>1</sup></b>	<b>\$5,444</b>	<b>\$6,665</b>	<b>\$6,959</b>	<b>\$7,205</b>	<b>\$7,310</b>	<b>\$8,274</b>	<b>\$8,465</b>	<b>\$9,084</b>	<b>\$12,028</b>	<b>\$12,701</b>	<b>\$13,126</b>	<b>\$13,369</b>
Australia.....	6,283	6,683	6,826	6,802	8,720	9,378	9,287	9,157	16,259	16,261	15,470	15,219
Austria.....	8,298	9,211	9,102	9,654	10,850	10,876	11,179	11,878	13,726	16,479	15,799	15,219
Belgium.....	5,452	7,415	7,735	8,628	8,714 <sup>2</sup>	8,623 <sup>2</sup>	9,446 <sup>2</sup>	10,634 <sup>2</sup>	13,624	13,340	14,163	15,196
Canada.....	—	—	8,035 <sup>3,4</sup>	—	7,522 <sup>5</sup>	8,671 <sup>3,5</sup>	8,812	—	18,952 <sup>2</sup>	26,020 <sup>6,7</sup>	21,959 <sup>6</sup>	—
Chile.....	2,454	2,365	2,193	2,294	2,550	2,317	2,196	2,248	9,465	7,665	6,610	6,704
Czech Republic.....	2,311	3,136	3,528	3,844	4,097	5,406	5,806	6,246	6,870	7,415	8,624	8,415
Denmark.....	8,948	9,495	9,639	10,198	9,773 <sup>8</sup>	10,493 <sup>8</sup>	10,164 <sup>8</sup>	10,845 <sup>8</sup>	15,155 <sup>8</sup>	16,684 <sup>8</sup>	17,298 <sup>8</sup>	17,840 <sup>8</sup>
Estonia.....	—	3,774 <sup>6</sup>	4,263	5,644	—	4,370 <sup>6</sup>	5,115	6,445	—	4,315	5,939 <sup>7</sup>	6,092 <sup>7</sup>
Finland.....	5,461	6,198	6,549	7,175	7,708 <sup>2</sup>	8,168 <sup>2</sup>	8,224 <sup>2</sup>	8,760 <sup>2</sup>	10,428	13,702	14,252	15,582
France.....	5,674	5,984	6,350	6,340	9,659	9,956	10,013	10,351	10,591	12,264	13,418	14,243
Germany.....	5,310	5,592	5,828	5,998	8,634	8,517	8,238	8,707	13,785	13,882	14,521	15,569
Greece.....	4,197 <sup>3,6</sup>	5,739 <sup>3</sup>	—	—	4,881 <sup>6</sup>	9,394	—	—	4,303 <sup>6</sup>	6,838	—	—
Hungary <sup>6</sup> .....	2,840	4,950	4,891	4,547	3,094	4,245	4,439	4,712	8,885	6,965	7,060	7,413
Iceland.....	7,405 <sup>6</sup>	10,321	10,116	10,723	8,245 <sup>6</sup>	9,381 <sup>8</sup>	8,771 <sup>2</sup>	9,112 <sup>2</sup>	10,112 <sup>6</sup>	10,567 <sup>8</sup>	9,780	10,551
Ireland.....	4,282	6,394	7,249	7,886 <sup>6</sup>	5,867	8,365	9,849	10,995 <sup>6</sup>	14,019	11,675	13,269	16,474 <sup>6</sup>
Israel.....	5,504	5,241	5,315	5,376	6,980	6,129	6,031	6,504	14,610	12,179	12,013	12,715
Italy.....	7,555 <sup>6</sup>	7,623 <sup>6</sup>	7,756 <sup>6</sup>	8,772 <sup>6</sup>	9,130 <sup>6</sup>	8,530 <sup>6</sup>	8,408 <sup>6</sup>	9,424 <sup>6</sup>	10,202 <sup>6</sup>	8,952 <sup>6</sup>	9,112	9,665
Japan.....	6,966	7,522	7,613	7,578	7,926 <sup>8</sup>	8,820 <sup>8</sup>	9,202 <sup>8</sup>	9,198 <sup>8</sup>	13,805 <sup>8</sup>	13,748 <sup>8</sup>	14,919 <sup>8</sup>	15,064 <sup>8</sup>
Korea, Republic of.....	3,991	5,232	5,712	5,484	5,147	7,412	8,258	8,023	7,739	8,483	9,371	9,187
Luxembourg <sup>6</sup> .....	—	15,703 <sup>3</sup>	14,692 <sup>3</sup>	13,807	—	21,019	18,834	20,130	—	—	—	—

See notes at end of table.

**Table 429. Public and private education expenditures per student, by level of education and country: Selected years, 2000 through 2008—Continued**

Country	Elementary education				Secondary education				Higher education			
	2000	2005	2007	2008	2000	2005	2007	2008	2000	2005	2007	2008
1	2	3	4	5	6	7	8	9	10	11	12	13
Mexico .....	1,633	2,133	2,217	2,273	2,043	2,431	2,349	2,360	5,930	7,141	7,324	7,591
Netherlands .....	5,471	6,989	6,883	7,292	7,478	8,634	10,766	11,078	15,095	15,484	16,775	17,446
New Zealand.....	—	5,332	4,911	5,647	—	7,002	6,233	7,076	—	11,445	10,405	10,649
Norway.....	8,285 <sup>6</sup>	10,039	10,423	11,206	10,721 <sup>2,6</sup>	12,263 <sup>2</sup>	12,603 <sup>2</sup>	13,223 <sup>2</sup>	16,890 <sup>6</sup>	17,346	18,006	19,163
Poland <sup>6</sup> .....	2,663	3,694	4,268	4,911	—	3,408	3,772	4,578	4,076	6,238	5,857	7,146
Portugal .....	4,645	5,433 <sup>6</sup>	5,264 <sup>6</sup>	5,295 <sup>6</sup>	6,766	7,220 <sup>6</sup>	7,179 <sup>6</sup>	7,443 <sup>6</sup>	6,029	9,801 <sup>6</sup>	10,923 <sup>6</sup>	10,494 <sup>6</sup>
Slovak Republic .....	1,655	3,130	3,676	4,185	2,437 <sup>2,9</sup>	3,029 <sup>2,9</sup>	3,382 <sup>2,9</sup>	4,002 <sup>2,9</sup>	6,260 <sup>7,9</sup>	6,451 <sup>7,9</sup>	6,026 <sup>7,9</sup>	6,637 <sup>7,9</sup>
Slovenia.....	—	—	—	—	—	7,880 <sup>2,5</sup>	7,634 <sup>2,5</sup>	8,655 <sup>2,5</sup>	—	9,562	8,991	9,371
Spain .....	4,985	6,137	6,863	7,268	6,559 <sup>2</sup>	8,043	9,171	9,906	8,432	11,253	13,182	13,522
Sweden.....	8,014	8,402	8,759	9,186	8,018	9,144	9,605	10,056	19,096	17,786	19,289	20,248
Switzerland <sup>6</sup> .....	8,388	9,446	9,677	9,169	12,371	14,344	14,688	18,034 <sup>2</sup>	23,338	24,241	21,938	21,901
Turkey <sup>6</sup> .....	—	—	—	—	—	—	—	—	5,213	—	—	—
United Kingdom.....	4,904	7,095	8,638	8,861	7,578 <sup>2</sup>	7,994 <sup>2</sup>	9,341 <sup>2</sup>	9,598 <sup>2</sup>	12,215	15,064	16,245	15,488
United States.....	8,848	10,212	10,746	10,099	11,201	11,588	11,872	12,238	25,751 <sup>2</sup>	27,181	28,374	30,260

—Not available.

<sup>1</sup>Refers to the mean of the data values for all reporting 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.

<sup>2</sup>Includes postsecondary non-higher-education.

<sup>3</sup>Includes preprimary education.

<sup>4</sup>Includes lower secondary education.

<sup>5</sup>Includes elementary education.

<sup>6</sup>Public institutions only.

<sup>7</sup>Excludes occupation-specific education corresponding to that offered at the associate's degree level in the United States.

<sup>8</sup>Postsecondary non-higher-education included in both secondary and higher education.

<sup>9</sup>Occupation-specific education corresponding to that offered at the associate's degree level in the United States is included in secondary 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. 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.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2002 through 2011. (This table was prepared June 2011.)

Table 430. Public and private direct expenditures on education as a percentage of gross domestic product, by level of education and country: Selected years, 1995 through 2008

Country	All institutions (including preprimary education and subsidies to households, not separately shown)								Elementary and secondary institutions								Higher education institutions							
	Public direct expenditures					Direct expenditures, 2008			Public direct expenditures					Direct expenditures, 2008			Public direct expenditures					Direct expenditures, 2008		
	1995	2000 <sup>1</sup>	2005 <sup>1</sup>	2006 <sup>1</sup>	2007 <sup>1</sup>	Public <sup>1</sup>	Private	Total	1995	2000 <sup>1</sup>	2005 <sup>1</sup>	2006 <sup>1</sup>	2007 <sup>1</sup>	Public <sup>1</sup>	Private	Total	1995	2000 <sup>1</sup>	2005 <sup>1</sup>	2006 <sup>1</sup>	2007 <sup>1</sup>	Public <sup>1</sup>	Private	Total
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
<b>OECD average<sup>2</sup></b>	<b>4.9</b>	<b>4.9</b>	<b>5.0</b>	<b>4.9</b>	<b>4.8</b>	<b>5.1</b>	<b>0.9</b>	<b>5.9</b>	<b>3.5</b>	<b>3.4</b>	<b>3.5</b>	<b>3.4</b>	<b>3.3</b>	<b>3.5</b>	<b>0.3</b>	<b>3.7</b>	<b>0.9</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>0.5</b>	<b>1.5</b>
Australia.....	4.5	4.6	4.3	4.1	3.7	3.7	1.4	5.2	3.2	3.7	3.4	3.3	2.9	3.0	0.6	3.6	1.2	0.8	0.8	0.8	0.7	0.7	0.8	1.5
Austria.....	5.3	5.4 <sup>3</sup>	5.2	5.2	5.1	5.2	0.2	5.4	3.8	3.7 <sup>3</sup>	3.5	3.5	3.5	3.5	0.1	3.6	0.9	1.2 <sup>3</sup>	1.2	1.2	1.3	1.2	0.1	1.3
Belgium.....	5.0	5.1	5.8	5.9	5.9	6.3	0.3	6.6	3.4	3.4 <sup>4</sup>	3.9	3.9	3.9	4.3	0.2	4.4	0.9	1.2 <sup>4</sup>	1.2	1.2	1.2	1.3	0.1	1.4
Canada.....	5.8	5.2	4.8	4.8	4.6	—	—	4.0	3.3 <sup>5</sup>	3.3 <sup>5,6</sup>	3.2 <sup>5,6</sup>	3.3 <sup>6</sup>	3.1 <sup>6</sup>	—	—	—	1.5	1.6 <sup>5</sup>	1.5 <sup>5</sup>	1.6 <sup>5</sup>	1.5	—	—	—
Chile.....	—	4.2	3.3	3.0	3.1	3.7	2.7	6.4	—	3.2	2.7	2.4	2.5	3.0	0.9	3.9	—	0.6	0.3	0.3	0.3	0.3	1.7	2.0
Czech Republic.....	4.8	4.2	4.1	4.2	4.1	3.9	0.6	4.5	3.4	2.8 <sup>4</sup>	2.7	2.7	2.5	2.5	0.3	2.8	0.7	0.8 <sup>4</sup>	0.8	1.0	1.0	0.9	0.2	1.2
Denmark.....	6.5	6.4 <sup>3</sup>	6.8	6.7	6.6	6.5	0.6	7.1	4.2	4.1 <sup>3,7</sup>	4.4 <sup>7</sup>	4.3 <sup>7</sup>	4.2 <sup>7</sup>	4.2 <sup>7</sup>	0.1 <sup>7</sup>	4.3 <sup>7</sup>	1.3	1.5 <sup>3,7</sup>	1.6 <sup>7</sup>	1.6 <sup>7</sup>	1.6 <sup>7</sup>	1.6 <sup>7</sup>	0.1 <sup>7</sup>	1.7 <sup>7</sup>
Estonia.....	—	—	4.7	4.6	4.7	5.5	0.2	5.8	—	—	3.5	3.4	3.3	3.8	#	3.9	—	—	0.9	0.9	1.1	1.1	0.2	1.3
Finland.....	6.6	5.5	5.9	5.7	5.5	5.7	0.1	5.9	4.2	3.5	3.8	3.7	3.6	3.8	#	3.8	1.7	1.7	1.7	1.6	1.6	1.6	0.1	1.7
France.....	5.8	5.7	5.6	5.5	5.5	5.5	0.5	6.0	4.1	4.0	3.8	3.7	3.7	3.7	0.2	3.9	1.0	1.0	1.1	1.1	1.2	1.2	0.2	1.4
Germany.....	4.5	4.3	4.2	4.1	4.0	4.1	0.7	4.8	2.9	2.9	2.8	2.7	2.6	2.6	0.4	3.0	1.0	1.0	0.9	0.9	0.9	1.0	0.2	1.2
Greece.....	3.7	3.7 <sup>3</sup>	4.0	—	—	—	—	—	2.8	2.7 <sup>3,6</sup>	2.5 <sup>6</sup>	—	—	—	—	—	0.8	0.9 <sup>3</sup>	1.4	—	—	—	—	—
Hungary.....	4.9	4.4	5.1	5.1	4.9	4.8	—	—	3.3	2.8	3.3	3.2	3.2	3.0	—	—	0.8	0.9	0.9	0.9	0.9	0.9	—	—
Iceland.....	4.5	5.7 <sup>3</sup>	7.2	7.2	7.0	7.2	0.7	7.9	3.4	4.6 <sup>3</sup>	5.2 <sup>7</sup>	5.1	4.9	4.9	0.2	5.1	0.7	0.8 <sup>3</sup>	1.1 <sup>7</sup>	1.0	1.1	1.2	0.1	1.3
Ireland.....	4.7	4.1	4.3	4.4	4.4	5.2	0.3	5.6	3.3	2.9 <sup>4</sup>	3.3	3.4	3.4	4.0	0.1	4.1	0.9	1.2 <sup>4</sup>	1.0	1.0	1.0	1.2	0.2	1.4
Israel.....	—	6.6	6.2	6.2	5.9	5.9	1.4	7.3	—	4.5	4.2	4.1	3.9	4.0	0.2	4.2	—	1.1	1.0	1.0	1.0	0.9	0.7	1.6
Italy.....	4.5	4.5	4.3	4.6	4.1	4.5	0.3	4.8	3.2	3.2	3.2	3.4	3.0	3.2	0.1	3.3	0.7	0.7	0.6	0.7	0.6	0.8	0.2	1.0
Japan.....	3.6	3.5	3.4	3.3	3.3	3.3	1.7	4.9	2.8	2.7 <sup>7</sup>	2.6 <sup>7</sup>	2.6 <sup>7</sup>	2.5 <sup>7</sup>	2.5 <sup>7</sup>	0.3 <sup>7</sup>	2.8 <sup>7</sup>	0.4	0.5 <sup>7</sup>	0.5 <sup>7</sup>	0.5 <sup>7</sup>	0.5 <sup>7</sup>	1.0 <sup>7</sup>	1.5 <sup>7</sup>	—
Korea, Republic of.....	3.6	4.3	4.3	4.5	4.2	4.7	2.8	7.6	3.0	3.3	3.4	3.4	3.1	3.4	0.8	4.2	0.3	0.6	0.6	0.6	0.6	0.6	1.9	2.6
Luxembourg.....	4.3	—	—	—	—	—	—	—	4.2	—	3.7 <sup>6</sup>	3.3 <sup>6</sup>	3.1 <sup>6</sup>	2.8	0.1	2.9	0.1	—	—	—	—	—	—	—
Mexico.....	4.6	4.7	5.3	4.6	4.7	4.7	1.1	5.8	3.4	3.3	3.7	3.2	3.1	3.1	0.6	3.7	0.8	0.8	0.9	0.8	0.9	0.9	0.4	1.2
Netherlands.....	4.6	4.3	4.6	4.8	4.7	4.8	0.8	5.6	3.0	3.0	3.3	3.3	3.3	3.3	0.4	3.7	1.1	1.0	1.0	1.1	1.1	1.1	0.4	1.5
New Zealand.....	5.3	5.8	5.2	5.0	4.8	5.4	1.2	6.6	3.8	4.6	4.0	3.8	3.5	3.8	0.6	4.5	1.1	0.9	0.9	0.9	1.0	1.1	0.5	1.6
Norway.....	6.8	5.8	5.7	5.4	5.4	7.3	—	—	4.1	3.6	3.8	3.7	3.7	5.0	—	—	1.5	1.2	1.3	1.2	1.2	1.6	0.1	1.7
Poland.....	5.2	5.2 <sup>3</sup>	5.4	5.2	4.8	5.0	0.7	5.7	3.3	3.7 <sup>3</sup>	3.7	3.7	3.4	3.4	0.2	3.6	0.8	0.8 <sup>3</sup>	1.2	0.9	0.9	1.0	0.4	1.5
Portugal.....	5.4	5.6 <sup>3</sup>	5.3	5.1	5.1	4.7	0.5	5.2	4.1	4.1 <sup>3</sup>	3.8	3.6	3.5	3.4	#	3.4	1.0	1.0 <sup>3</sup>	0.9	0.9	1.1	0.9	0.5	1.3
Slovak Republic.....	4.6	4.0 <sup>3</sup>	3.7	3.6	3.4	3.5	0.6	4.0	—	2.7 <sup>3,4,8</sup>	2.5 <sup>8</sup>	2.4 <sup>8</sup>	2.3 <sup>8</sup>	2.2 <sup>8</sup>	0.4 <sup>8</sup>	2.6 <sup>8</sup>	—	0.7 <sup>3,4,8</sup>	0.7 <sup>8</sup>	0.8 <sup>8</sup>	0.7 <sup>8</sup>	0.7 <sup>8</sup>	0.2 <sup>8</sup>	0.9 <sup>8</sup>
Slovenia.....	—	—	5.3	5.3	4.8	4.8	0.6	5.4	—	—	3.9	3.8	3.3	3.4	0.3	3.7	—	—	1.0	1.0	1.0	1.0	0.2	1.1
Spain.....	4.8	4.3	4.1	4.2	4.2	4.5	0.6	5.1	3.5	3.1	2.7	2.7	2.7	2.9	0.2	3.1	0.8	0.9	0.9	0.9	0.9	1.0	0.2	1.2
Sweden.....	6.6	6.3	6.2	6.2	6.1	6.1	0.2	6.3	4.4	4.4 <sup>4</sup>	4.2	4.1	4.1	4.0	#	4.0	1.6	1.5 <sup>4</sup>	1.5	1.4	1.4	1.4	0.2	1.6
Switzerland.....	5.5	5.3	5.6	5.4	5.1	5.3	—	—	4.1	3.8	3.9	3.7	3.5	3.8	0.5	4.3	1.1	1.2	1.4	1.4	1.3	1.3	—	—
Turkey.....	2.2	3.4 <sup>3</sup>	—	2.7	—	—	—	—	1.4	2.4 <sup>3</sup>	—	1.9	—	—	—	—	0.8	1.0 <sup>3</sup>	—	0.8	—	—	—	—
United Kingdom.....	4.6	4.5	5.0	5.2	5.2	5.1	0.6	5.7	3.8	3.4	3.8	3.9	4.1	4.2	#	4.2	0.7	0.7	0.9	0.9	0.7	0.6	0.6	1.2
United States.....	5.0	4.8	4.8	5.0	5.0	5.1	2.1	7.2	3.5	3.5 <sup>5</sup>	3.5	3.7	3.7	3.8	0.3	4.1	1.1	0.9 <sup>5</sup>	1.0	1.0	1.0	1.0	1.7	2.7
<b>Other reporting countries</b>																								
Brazil.....	—	—	4.4	4.9	5.2	5.3	—	—	—	—	3.3	3.8	4.0	4.1	—	—	—	—	0.8	0.8	0.8	0.8	—	—
Russian Federation.....	3.4	3.0 <sup>3</sup>	3.8	3.9	6.1	4.1	0.7	4.7	1.9	1.7	1.9	2.0	3.4	2.0	0.1	2.1	0.7	0.5	0.8	0.8	1.0	0.9	0.5	1.5

—Not available.

#Rounds to zero.

<sup>1</sup>Includes public subsidies to households attributable for education institutions and direct expenditures on education institutions from international sources, except where noted.<sup>2</sup>Refers to the mean of the data values for all reporting 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.<sup>3</sup>Public subsidies to households not included in public expenditures.<sup>4</sup>Direct expenditures on education institutions from international sources exceed 1.5 percent of all public expenditures.<sup>5</sup>Postsecondary non-higher-education included in higher education.<sup>6</sup>Preprimary education (for children ages 3 and older) is included in elementary and secondary education.<sup>7</sup>Postsecondary non-higher-education included in both secondary and higher education.<sup>8</sup>Occupation-specific education corresponding to that offered at the associate's degree in the United States is included in secondary education.

NOTE: Public direct expenditures on education include both amounts spent directly by governments to hire educational personnel and to procure other resources, and amounts provided by governments to public or private institutions, or households. Private direct expenditures include the net of public subsidies to households for education institutions. Postsecondary non-higher-education is included in elementary and secondary education unless otherwise noted. All institutions total includes expenditures that could not be reported by level of education. Some data have been revised from previously published figures.

SOURCE: Organization for Economic Cooperation and Development (OECD), Online Education Database; and *Education at a Glance*, 2007 through 2011. U.S. Department of Education, National Center for Education Statistics, *International Education Indicators: A Time Series Perspective, 1985–1995* (NCES 2000-021). (This table was prepared June 2011.)

