



Appendix Table 1-7

Mean and distribution of mathematics literacy assessment scores for 15-year-old students in developed countries, by country: 2012

Country	Mean score	Score differs from United States	Percentage of students whose score fell below or above the percentile scores of all developed countries						Mean deviation	Deviation differs from United States
			Below 1st percentile	Below 5th percentile	Below 10th percentile	Above 90th percentile	Above 95th percentile	Above 99th percentile		
All developed countries	501.1	^	1.0	5.0	10.0	10.0	5.0	1.0	77.5	^
Developed countries										
Australia	504.2	^	1.0	4.7	9.3	10.7	5.4	1.2	77.5	^
Austria	505.5	^	0.8	4.1	8.7	9.5	4.3	0.8	75.3	≈
Belgium	514.5	^	1.3	5.4	9.9	14.4	7.6	1.6	83.3	^
Canada	518.1	^	0.4	2.7	5.9	11.5	5.5	1.0	71.6	≈
Czech Republic	499.0	^	1.3	5.3	10.1	9.0	4.2	0.8	76.6	^
Denmark	500.0	^	0.5	3.1	7.0	6.3	2.3	0.2	66.0	-
Estonia	520.5	^	0.1	1.3	3.7	9.9	4.6	0.7	64.9	-
Finland	518.8	^	0.5	2.6	5.2	10.5	4.7	0.7	67.9	-
France	495.0	^	1.7	6.9	12.1	8.9	4.0	0.6	78.9	^
Germany	513.5	^	0.9	4.2	8.7	12.3	6.0	1.0	78.3	^
Greece	453.0	-	2.8	11.5	20.0	2.4	0.9	0.1	70.6	≈
Iceland	492.8	^	1.4	5.8	11.1	7.2	3.0	0.3	73.8	≈
Ireland	501.5	^	0.5	3.4	7.4	6.9	2.9	0.4	67.8	-
Israel	466.5	-	4.6	13.4	20.7	6.3	2.9	0.3	85.3	^
Italy	485.3	≈	1.5	6.6	12.6	6.6	2.8	0.4	74.8	≈



Country	Mean score	Score differs from United States	Percentage of students whose score fell below or above the percentile scores of all developed countries						Mean deviation	Deviation differs from United States
			Below 1st percentile	Below 5th percentile	Below 10th percentile	Above 90th percentile	Above 95th percentile	Above 99th percentile		
Japan	536.4	^	0.5	2.4	5.0	17.6	9.4	1.9	75.3	≈
Latvia	490.6	^	0.6	3.5	8.1	4.9	2.0	0.2	65.8	-
Luxembourg	489.8	^	1.4	6.7	12.9	7.5	3.4	0.6	77.7	^
Netherlands	523.0	^	0.3	2.8	6.5	13.2	5.8	0.8	75.0	≈
New Zealand	499.7	^	1.0	5.7	11.2	11.0	5.6	1.3	81.0	^
Norway	489.4	≈	1.4	5.6	10.9	6.4	2.8	0.4	72.6	≈
Poland	517.5	^	0.2	2.2	5.6	11.9	6.2	1.6	73.1	≈
Portugal	487.1	≈	1.3	6.7	13.1	7.0	2.8	0.4	76.5	^
Singapore	573.5	^	0.3	1.6	3.6	32.9	21.7	8.1	85.5	^
Slovakia	481.6	≈	2.6	9.0	15.3	7.6	3.9	0.9	81.1	^
Slovenia	501.1	^	0.5	3.7	8.6	9.6	4.5	0.6	75.0	≈
South Korea	553.8	^	0.5	2.0	4.2	24.4	14.4	4.3	79.8	^
Spain	484.3	≈	1.3	5.8	11.6	4.9	1.8	0.2	70.8	≈
Sweden	478.3	≈	1.9	7.4	13.8	5.1	2.1	0.3	73.9	≈
Switzerland	530.9	^	0.5	2.7	5.5	15.7	8.4	2.0	75.8	^
United Kingdom	493.9	^	1.3	6.2	11.2	8.2	3.7	0.6	76.1	^
United States of America	481.4	na	1.0	5.9	12.4	5.8	2.8	0.4	72.6	na
Developing countries										
Albania	394.3	-	11.5	27.9	41.2	0.4	0.1	0.0	71.8	≈



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			Below 1st percentile	Below 5th percentile	Below 10th percentile	Above 90th percentile	Above 95th percentile	Above 99th percentile		
Argentina	388.4	-	8.9	28.9	44.6	0.1	0.0	0.0	61.1	-
Brazil	391.5	-	8.2	30.5	47.3	0.4	0.1	0.0	61.9	-
Bulgaria	438.7	-	4.7	16.4	26.8	2.4	1.0	0.1	75.8	≈
Chile	422.6	-	3.3	17.3	30.6	0.8	0.2	0.0	65.1	-
Colombia	376.5	-	10.6	35.2	52.7	0.1	0.0	0.0	58.7	-
Costa Rica	407.0	-	3.0	18.3	34.1	0.3	0.1	0.0	53.8	-
Croatia	471.1	-	1.1	7.0	14.7	4.6	2.1	0.4	71.2	≈
Hungary	477.0	≈	1.6	7.8	14.6	6.3	2.8	0.3	75.4	≈
Indonesia	375.1	-	9.9	34.9	54.3	0.1	0.0	0.0	56.0	-
Jordan	385.6	-	9.5	30.2	46.9	0.4	0.1	0.0	61.0	-
Kazakhstan	431.8	-	1.5	10.7	22.6	0.5	0.1	0.0	56.8	-
Lithuania	478.8	≈	1.3	6.8	13.0	5.1	1.9	0.2	71.9	≈
Malaysia	420.5	-	4.1	18.3	31.4	0.7	0.2	0.0	65.3	-
Mexico	413.3	-	4.0	18.0	32.0	0.3	0.1	0.0	59.2	-
Montenegro	409.6	-	6.0	22.4	36.3	0.5	0.2	0.0	66.2	-
Peru	368.1	-	16.4	41.1	56.5	0.3	0.1	0.0	66.7	-
Qatar	376.4	-	18.3	41.8	55.1	1.2	0.4	0.0	79.7	^
Romania	444.6	-	1.4	10.3	21.4	1.9	0.7	0.1	65.3	≈
Russian Federation	482.2	≈	1.0	5.6	11.3	4.9	2.0	0.3	69.2	-
Serbia	448.9	-	3.1	12.4	21.8	2.9	1.4	0.2	72.4	≈
Thailand	426.7	-	3.3	14.7	27.7	1.6	0.7	0.1	64.4	-



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Tunisia	387.8	-	8.9	30.3	46.7	0.5	0.1	0.0	61.8	-
Turkey	448.0	-	2.1	11.8	22.9	3.8	1.6	0.1	73.4	≈
United Arab Emirates	434.0	-	3.8	16.4	28.0	2.1	0.8	0.1	72.1	≈
Uruguay	409.3	-	8.3	24.3	37.1	0.7	0.2	0.0	71.4	≈
Vietnam	511.3	^	0.4	2.6	5.8	9.3	4.4	0.9	68.4	≈

NOTES: ^ = estimate is significantly higher than the United States; - = estimate is significantly lower than the United States; ≈ = estimate not significantly different from the United States; na = not applicable.
 SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2014) of the Program for International Student Assessment (PISA) 2012 mathematics literacy assessment, National Center for Education Statistics.
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