

Appendix G.1: Percentiles of Mathematics Achievement

Country	5th Percentile	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	95th Percentile
Australia	374 (6.3)	408 (4.9)	462 (4.0)	521 (3.2)	575 (3.5)	622 (3.8)	649 (3.8)
Bahrain	299 (3.9)	335 (4.5)	393 (2.5)	455 (1.8)	512 (1.9)	561 (2.1)	591 (2.8)
Belgium (Flemish)	445 (4.0)	468 (3.5)	505 (2.7)	546 (2.1)	587 (2.7)	624 (3.0)	645 (3.6)
Bulgaria	373 (9.7)	413 (9.6)	475 (7.1)	531 (5.2)	581 (4.9)	624 (5.9)	649 (6.0)
Canada	382 (5.4)	413 (4.5)	462 (2.9)	514 (2.1)	562 (2.4)	604 (2.7)	629 (3.1)
Chile	337 (5.0)	363 (3.8)	408 (4.3)	460 (3.2)	509 (2.9)	551 (2.8)	577 (3.6)
Chinese Taipei	474 (4.0)	505 (3.3)	552 (2.9)	599 (2.3)	645 (2.8)	685 (2.8)	709 (4.0)
Croatia	390 (4.7)	415 (3.9)	460 (2.3)	505 (2.0)	548 (2.4)	584 (2.5)	605 (3.3)
Cyprus	382 (6.8)	415 (4.6)	471 (4.0)	527 (3.3)	579 (3.3)	623 (3.1)	648 (4.6)
Czech Republic	409 (5.6)	437 (2.8)	484 (3.3)	530 (3.0)	576 (2.4)	616 (3.0)	640 (4.3)
Denmark	408 (5.6)	440 (5.3)	490 (3.7)	542 (3.3)	591 (3.4)	633 (4.1)	656 (3.1)
England	407 (5.9)	438 (5.1)	490 (3.9)	547 (2.9)	602 (3.7)	651 (3.6)	682 (7.8)
Finland	421 (5.0)	448 (3.5)	492 (2.8)	538 (2.1)	582 (2.3)	619 (2.7)	639 (2.8)
France	361 (5.2)	390 (4.6)	438 (4.1)	491 (3.8)	540 (3.7)	584 (4.1)	607 (4.0)
Georgia	310 (7.3)	347 (6.8)	408 (6.2)	469 (4.1)	524 (4.1)	570 (5.8)	597 (6.5)
Germany	410 (5.4)	437 (4.1)	479 (2.7)	524 (2.0)	566 (2.2)	604 (3.0)	626 (3.0)
Hong Kong SAR	505 (5.5)	531 (5.0)	573 (3.8)	616 (3.7)	659 (3.1)	696 (4.1)	721 (5.4)
Hungary	372 (7.5)	412 (6.7)	475 (5.4)	537 (2.9)	591 (2.9)	635 (2.7)	660 (4.1)
Indonesia	244 (6.9)	280 (5.2)	339 (4.5)	401 (4.4)	461 (3.8)	509 (3.5)	537 (4.3)
Iran, Islamic Rep. of	248 (10.0)	290 (7.1)	367 (5.1)	441 (3.8)	504 (3.3)	555 (2.6)	583 (4.0)
Ireland	420 (4.0)	451 (4.4)	501 (3.6)	552 (2.7)	598 (3.6)	636 (4.0)	658 (4.0)
Italy	383 (5.5)	413 (4.8)	461 (4.3)	510 (2.7)	556 (2.9)	596 (2.6)	619 (4.8)
Japan	476 (3.9)	505 (2.6)	549 (2.0)	594 (2.3)	639 (2.6)	680 (3.2)	703 (4.3)
Jordan	192 (7.8)	240 (6.7)	320 (4.9)	400 (3.8)	465 (3.5)	518 (4.3)	547 (3.8)
Kazakhstan	413 (4.4)	440 (4.3)	487 (4.7)	543 (5.8)	599 (5.2)	650 (6.6)	682 (8.5)
Korea, Rep. of	494 (5.5)	522 (3.0)	565 (2.9)	611 (2.3)	653 (2.4)	691 (3.8)	715 (4.4)
Kuwait	180 (5.0)	217 (5.7)	281 (5.9)	354 (4.6)	426 (4.9)	487 (6.3)	522 (7.7)
Lithuania	411 (5.9)	441 (5.1)	489 (3.8)	540 (3.2)	584 (2.9)	624 (4.7)	646 (4.7)
Morocco	220 (6.1)	253 (4.4)	311 (3.6)	377 (3.6)	445 (4.6)	504 (4.6)	533 (6.1)
Netherlands	436 (3.7)	457 (2.7)	492 (2.4)	531 (2.1)	569 (2.0)	601 (2.7)	619 (3.6)
New Zealand	335 (5.2)	371 (4.6)	432 (4.1)	495 (2.9)	553 (2.0)	602 (3.2)	632 (4.7)
Northern Ireland	420 (6.8)	456 (5.3)	514 (4.2)	576 (3.5)	630 (3.1)	675 (3.3)	702 (4.6)
Norway (5)	430 (5.3)	459 (5.6)	504 (3.3)	550 (3.0)	597 (2.6)	638 (3.5)	661 (4.3)
Oman	256 (4.7)	293 (4.4)	356 (3.5)	428 (3.7)	496 (2.6)	553 (3.5)	587 (4.0)
Poland	412 (5.1)	441 (4.0)	487 (3.1)	539 (2.2)	585 (2.4)	624 (2.6)	645 (3.9)
Portugal	420 (4.2)	447 (3.9)	492 (2.9)	543 (2.7)	592 (3.0)	632 (3.1)	657 (3.3)
Qatar	279 (6.4)	312 (4.9)	372 (4.8)	441 (3.5)	506 (3.9)	563 (6.8)	597 (7.9)
Russian Federation	441 (6.0)	470 (5.4)	517 (3.7)	565 (3.6)	613 (4.2)	656 (5.8)	683 (7.7)
Saudi Arabia	233 (8.4)	264 (6.3)	321 (4.7)	383 (4.3)	446 (4.2)	502 (5.4)	534 (6.5)
Serbia	363 (9.4)	403 (7.4)	466 (4.8)	523 (3.8)	577 (3.5)	625 (3.6)	650 (3.3)
Singapore	458 (9.0)	502 (8.6)	566 (5.2)	625 (4.7)	677 (3.8)	722 (3.8)	746 (4.6)
Slovak Republic	354 (6.9)	391 (5.2)	450 (3.7)	506 (3.0)	552 (2.3)	593 (3.4)	618 (2.8)
Slovenia	401 (5.6)	430 (3.3)	476 (2.7)	522 (2.6)	568 (2.4)	605 (2.9)	629 (2.5)
South Africa (5)	219 (5.1)	250 (4.5)	303 (3.9)	369 (4.2)	443 (4.5)	513 (5.4)	554 (7.7)
Spain	388 (5.8)	414 (4.8)	459 (3.5)	508 (2.6)	554 (2.1)	592 (2.3)	614 (2.9)
Sweden	398 (7.0)	428 (4.9)	475 (3.9)	522 (2.6)	567 (3.2)	604 (3.1)	626 (3.6)
Turkey	311 (8.0)	354 (6.6)	424 (4.7)	492 (3.0)	551 (3.3)	598 (3.6)	623 (4.0)
United Arab Emirates	276 (3.9)	312 (3.5)	377 (3.1)	454 (2.9)	527 (3.2)	587 (3.4)	623 (3.7)
United States	398 (4.5)	432 (3.1)	485 (2.4)	543 (2.3)	596 (2.3)	640 (2.6)	667 (3.5)

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015

() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.
 Note: Percentiles are defined in terms of percentages of students at or below a point on the scale.

Appendix G.1: Percentiles of Mathematics Achievement (Continued)

Country	5th Percentile	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	95th Percentile
Benchmarking Participants							
Buenos Aires, Argentina	295 (5.3)	325 (4.5)	377 (4.1)	436 (3.6)	490 (3.1)	534 (2.8)	559 (3.1)
Ontario, Canada	388 (4.5)	417 (4.4)	464 (3.1)	515 (2.3)	562 (2.9)	604 (3.5)	630 (4.2)
Quebec, Canada	428 (7.9)	451 (5.2)	492 (5.1)	536 (4.8)	580 (4.2)	620 (6.2)	644 (7.4)
Norway (4)	368 (7.1)	400 (5.4)	447 (3.2)	496 (3.0)	542 (2.6)	583 (2.9)	605 (4.1)
Abu Dhabi, UAE	247 (6.3)	279 (6.1)	338 (5.7)	418 (6.0)	499 (7.5)	561 (7.5)	599 (9.9)
Dubai, UAE	344 (3.2)	385 (3.0)	450 (2.4)	516 (1.6)	576 (2.6)	627 (2.5)	658 (4.5)
Florida, US	413 (8.2)	443 (6.9)	494 (6.3)	548 (5.7)	600 (6.1)	647 (7.5)	674 (6.8)

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015