

Appendix D.3: Percentiles of Mathematics Achievement

Country	5 th Percentile	10 th Percentile	25 th Percentile	50 th Percentile	75 th Percentile	90 th Percentile	95 th Percentile
Australia	369 (5.3)	401 (4.0)	456 (3.8)	518 (4.2)	578 (5.2)	632 (7.0)	666 (9.0)
Bahrain	317 (3.4)	350 (3.1)	413 (3.3)	488 (2.6)	550 (2.3)	598 (2.2)	628 (3.2)
Chile	318 (4.7)	344 (3.9)	388 (3.7)	440 (4.2)	493 (3.5)	538 (4.7)	568 (7.5)
Chinese Taipei	435 (5.4)	475 (3.9)	550 (4.0)	623 (3.3)	682 (3.6)	731 (3.5)	759 (4.8)
Cyprus	362 (4.7)	392 (4.0)	445 (3.0)	504 (2.6)	559 (2.6)	604 (3.2)	631 (5.0)
Egypt	252 (6.5)	288 (6.9)	347 (6.1)	414 (5.9)	481 (5.5)	535 (6.2)	567 (7.3)
England	363 (9.2)	398 (8.3)	457 (6.9)	516 (5.9)	575 (6.8)	628 (7.6)	660 (10.2)
Finland	384 (6.0)	412 (5.4)	460 (3.6)	512 (2.7)	560 (2.9)	602 (3.1)	624 (2.9)
France	369 (3.2)	393 (3.9)	436 (3.7)	483 (3.3)	531 (2.9)	570 (3.4)	593 (5.1)
Georgia	318 (8.8)	349 (7.4)	400 (6.4)	461 (4.6)	524 (5.5)	576 (6.6)	604 (8.5)
Hong Kong SAR	410 (11.9)	455 (7.8)	524 (5.7)	587 (4.1)	641 (4.1)	686 (7.0)	714 (7.1)
Hungary	366 (6.7)	398 (5.8)	455 (4.4)	518 (4.6)	580 (4.1)	631 (4.7)	661 (7.0)
Iran, Islamic Rep. of	296 (7.2)	329 (5.9)	383 (4.4)	444 (3.3)	509 (5.1)	568 (7.0)	602 (9.5)
Ireland	395 (7.3)	426 (5.8)	476 (3.9)	528 (2.7)	574 (2.5)	614 (3.8)	636 (3.0)
Israel	352 (6.2)	387 (5.1)	450 (4.4)	523 (6.3)	591 (5.2)	647 (6.7)	674 (7.0)
Italy	378 (5.7)	405 (3.4)	448 (3.7)	499 (3.7)	548 (3.2)	589 (4.1)	611 (4.2)
Japan	451 (4.3)	485 (3.9)	538 (2.6)	595 (2.3)	653 (3.5)	700 (5.4)	727 (6.9)
Jordan	274 (7.1)	305 (5.4)	361 (5.4)	423 (4.6)	481 (4.2)	530 (4.6)	558 (4.5)
Kazakhstan	355 (4.2)	381 (4.6)	431 (4.2)	486 (3.7)	544 (4.7)	597 (4.9)	624 (6.0)
Korea, Rep. of	435 (6.2)	475 (5.5)	547 (3.1)	613 (2.7)	674 (4.1)	727 (6.6)	755 (6.0)
Kuwait	262 (6.9)	290 (5.9)	341 (5.4)	400 (5.4)	462 (5.9)	521 (7.6)	552 (8.1)
Lebanon	313 (4.3)	337 (3.6)	378 (2.9)	428 (3.5)	479 (4.0)	525 (4.1)	551 (4.4)
Lithuania	384 (5.2)	415 (3.7)	466 (3.0)	521 (4.0)	577 (3.8)	624 (4.2)	652 (6.3)
Malaysia	319 (4.8)	346 (4.9)	396 (4.7)	457 (3.8)	521 (3.8)	580 (3.3)	618 (4.6)
Morocco	277 (3.7)	300 (3.1)	339 (2.5)	384 (2.4)	433 (2.9)	482 (4.0)	514 (5.2)
New Zealand	333 (7.1)	367 (6.3)	422 (5.1)	482 (3.5)	542 (3.6)	598 (4.0)	629 (4.3)
Norway (9)	370 (6.4)	401 (4.1)	450 (3.3)	505 (3.8)	558 (2.6)	601 (3.4)	626 (3.3)
Oman	246 (5.5)	281 (4.5)	341 (3.6)	412 (3.1)	482 (3.1)	537 (3.3)	568 (3.6)
Portugal	380 (6.3)	406 (5.2)	451 (4.6)	499 (3.9)	551 (3.4)	596 (4.8)	623 (5.6)
Qatar	293 (5.8)	322 (4.6)	374 (4.0)	439 (4.3)	511 (5.8)	571 (8.5)	606 (8.2)
Romania	317 (6.5)	351 (5.2)	410 (5.2)	481 (6.8)	550 (5.2)	604 (5.1)	635 (6.5)
Russian Federation	409 (6.3)	438 (7.3)	488 (6.1)	545 (5.1)	598 (4.6)	647 (6.1)	676 (6.5)
Saudi Arabia	268 (4.6)	294 (4.3)	339 (4.0)	393 (3.8)	446 (2.8)	495 (3.2)	523 (3.4)
Singapore	445 (7.8)	487 (10.4)	565 (7.5)	628 (4.6)	679 (3.1)	718 (2.8)	740 (3.3)
South Africa (9)	274 (3.8)	297 (3.3)	336 (2.3)	383 (2.4)	436 (2.8)	491 (3.6)	527 (4.2)
Sweden	373 (5.5)	401 (4.1)	449 (3.6)	505 (2.8)	556 (3.3)	601 (4.3)	626 (4.3)
Turkey	322 (6.9)	355 (7.8)	418 (4.9)	493 (4.9)	572 (4.7)	637 (5.4)	677 (6.9)
United Arab Emirates	302 (2.5)	336 (2.8)	400 (2.7)	475 (2.5)	548 (2.3)	607 (2.5)	639 (2.8)
United States	348 (9.4)	385 (7.2)	448 (5.8)	518 (5.1)	588 (5.3)	642 (4.8)	671 (4.9)
Benchmarking Participants							
Ontario, Canada	398 (6.1)	427 (5.3)	477 (4.2)	532 (4.4)	582 (4.4)	629 (7.3)	658 (8.0)
Quebec, Canada	429 (8.2)	457 (6.4)	499 (4.6)	545 (4.8)	590 (4.1)	627 (5.3)	648 (5.7)
Moscow City, Russian Fed.	436 (4.9)	466 (5.4)	519 (3.9)	578 (4.6)	634 (4.7)	681 (5.2)	709 (6.8)
Gauteng, RSA (9)	305 (4.3)	328 (4.1)	367 (2.7)	415 (2.8)	469 (4.7)	523 (5.1)	558 (7.3)
Western Cape, RSA (9)	311 (4.2)	336 (4.4)	376 (4.0)	430 (4.6)	498 (7.4)	569 (9.1)	606 (7.8)
Abu Dhabi, UAE	270 (4.5)	300 (4.2)	357 (3.9)	436 (4.1)	512 (3.3)	573 (2.9)	605 (3.9)
Dubai, UAE	371 (6.1)	411 (4.1)	477 (3.1)	545 (2.7)	603 (2.9)	648 (3.0)	673 (4.2)

Percentiles are defined in terms of percentages of students at or below a point on the scale.

() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Trends in International Mathematics and Science Study - TIMSS 2019
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