

Appendix D.4: Percentiles of Science Achievement

Country	5 th Percentile	10 th Percentile	25 th Percentile	50 th Percentile	75 th Percentile	90 th Percentile	95 th Percentile
Australia	373 (6.5)	409 (4.6)	473 (4.3)	534 (3.4)	589 (3.8)	635 (4.8)	663 (6.2)
Bahrain	308 (5.6)	346 (3.7)	416 (3.6)	493 (2.5)	561 (2.5)	614 (3.1)	641 (3.5)
Chile	331 (6.3)	360 (4.9)	409 (3.8)	465 (2.7)	517 (3.6)	561 (4.6)	586 (4.2)
Chinese Taipei	426 (5.6)	464 (3.2)	522 (2.2)	581 (2.6)	634 (2.4)	674 (2.4)	698 (3.9)
Cyprus	335 (4.0)	370 (4.4)	429 (4.3)	490 (3.1)	543 (2.5)	587 (3.0)	612 (3.4)
Egypt	192 (10.1)	237 (7.6)	314 (6.6)	398 (5.8)	472 (5.8)	528 (5.6)	558 (5.4)
England	356 (9.3)	393 (8.6)	458 (6.9)	523 (5.0)	580 (4.7)	630 (6.6)	659 (7.9)
Finland	388 (8.8)	428 (6.6)	490 (4.2)	549 (3.1)	602 (2.7)	647 (4.0)	673 (3.8)
France	355 (4.5)	385 (4.7)	436 (3.9)	492 (3.4)	543 (3.7)	585 (3.2)	609 (4.7)
Georgia	302 (7.4)	338 (5.2)	392 (5.4)	450 (3.1)	506 (4.4)	551 (5.4)	577 (8.1)
Hong Kong SAR	337 (7.8)	373 (8.7)	440 (7.6)	510 (6.8)	571 (5.4)	622 (6.2)	651 (7.2)
Hungary	388 (6.4)	421 (5.2)	476 (4.4)	534 (3.6)	586 (3.0)	632 (4.8)	659 (5.2)
Iran, Islamic Rep. of	299 (7.2)	336 (5.0)	391 (4.2)	450 (4.0)	510 (4.2)	563 (7.0)	594 (6.5)
Ireland	376 (8.7)	413 (5.9)	470 (4.2)	529 (3.4)	582 (3.4)	624 (3.1)	649 (5.2)
Israel	343 (9.3)	384 (6.9)	450 (6.0)	521 (5.5)	582 (5.8)	633 (5.5)	661 (6.3)
Italy	373 (6.8)	404 (4.5)	453 (3.7)	503 (3.0)	551 (3.1)	593 (2.7)	619 (4.6)
Japan	444 (3.7)	473 (3.6)	523 (2.1)	573 (2.4)	620 (3.2)	659 (4.0)	681 (4.7)
Jordan	277 (8.9)	319 (7.7)	390 (6.3)	462 (5.6)	522 (4.1)	569 (4.6)	598 (4.4)
Kazakhstan	336 (6.5)	368 (6.5)	422 (4.2)	478 (3.3)	535 (3.8)	590 (5.4)	620 (5.6)
Korea, Rep. of	415 (6.5)	453 (4.1)	509 (3.4)	563 (1.9)	617 (2.9)	666 (3.9)	694 (5.6)
Kuwait	276 (9.7)	313 (7.1)	377 (7.1)	448 (5.9)	515 (6.3)	570 (6.6)	600 (8.3)
Lebanon	213 (7.0)	243 (7.8)	301 (6.7)	374 (5.9)	451 (6.7)	515 (5.2)	550 (6.7)
Lithuania	402 (5.5)	433 (4.9)	483 (4.2)	537 (3.2)	588 (3.6)	630 (4.2)	656 (4.8)
Malaysia	292 (7.6)	330 (7.2)	395 (5.6)	467 (4.1)	529 (3.1)	580 (2.9)	608 (3.4)
Morocco	251 (5.5)	284 (4.4)	337 (3.6)	396 (3.0)	453 (2.9)	503 (3.0)	531 (3.4)
New Zealand	336 (8.1)	375 (6.5)	440 (5.1)	505 (3.5)	563 (3.7)	613 (3.4)	643 (4.2)
Norway (9)	340 (7.1)	378 (7.4)	439 (4.8)	500 (3.3)	558 (4.0)	606 (3.2)	632 (3.5)
Oman	272 (5.3)	313 (5.3)	387 (4.7)	465 (3.6)	534 (2.9)	586 (3.7)	615 (4.2)
Portugal	398 (7.1)	426 (4.5)	470 (4.8)	520 (3.9)	569 (3.6)	610 (3.4)	636 (3.9)
Qatar	301 (7.2)	337 (5.5)	405 (5.0)	478 (5.6)	549 (5.5)	607 (5.1)	637 (6.4)
Romania	313 (6.7)	350 (5.3)	410 (5.5)	472 (4.7)	533 (5.2)	586 (6.9)	618 (6.3)
Russian Federation	415 (7.8)	442 (6.3)	494 (5.3)	546 (4.3)	595 (3.7)	637 (5.4)	661 (4.8)
Saudi Arabia	280 (4.7)	314 (4.3)	371 (3.5)	435 (3.1)	494 (3.0)	544 (2.7)	572 (3.3)
Singapore	439 (12.2)	485 (9.4)	557 (7.4)	621 (4.5)	669 (2.8)	708 (3.2)	731 (2.6)
South Africa (9)	211 (4.5)	243 (4.1)	298 (3.6)	364 (3.6)	435 (4.0)	506 (4.1)	552 (5.0)
Sweden	349 (7.2)	391 (5.5)	462 (5.3)	529 (3.4)	588 (3.9)	638 (5.0)	664 (3.9)
Turkey	351 (7.5)	388 (5.1)	449 (4.5)	519 (4.7)	585 (4.4)	639 (5.0)	669 (5.1)
United Arab Emirates	247 (4.4)	296 (3.4)	388 (3.4)	486 (2.8)	566 (2.4)	627 (2.4)	660 (2.5)
United States	345 (11.0)	388 (8.8)	458 (6.4)	531 (5.4)	594 (4.1)	642 (4.2)	670 (3.9)
Benchmarking Participants							
Ontario, Canada	388 (7.2)	419 (4.6)	470 (4.1)	525 (3.8)	575 (3.7)	621 (5.5)	648 (5.2)
Quebec, Canada	420 (8.0)	447 (6.3)	491 (4.5)	539 (4.1)	585 (4.5)	623 (4.7)	646 (5.2)
Moscow City, Russian Fed.	450 (5.0)	477 (3.7)	521 (3.4)	570 (3.5)	615 (4.1)	653 (3.4)	674 (5.1)
Gauteng, RSA (9)	267 (6.3)	299 (5.1)	353 (4.1)	418 (4.5)	489 (5.1)	554 (6.2)	591 (7.1)
Western Cape, RSA (9)	272 (6.0)	303 (4.8)	360 (4.6)	428 (5.0)	513 (8.2)	596 (10.1)	638 (9.5)
Abu Dhabi, UAE	200 (4.8)	236 (5.5)	313 (6.1)	426 (6.7)	528 (4.1)	595 (3.8)	629 (3.9)
Dubai, UAE	360 (5.4)	408 (4.6)	486 (2.5)	560 (2.2)	619 (2.6)	668 (3.9)	695 (6.0)

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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