

# Appendix D

*Percentiles and Standard Deviations of  
Science Achievement*

## Exhibit D.1 Percentiles of Achievement in Science

TIMSS2007  
Science 4<sup>th</sup> Grade

Country	5th Percentile	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	95th Percentile
Algeria	183 (9.8)	220 (10.0)	286 (7.7)	356 (5.7)	424 (6.6)	483 (6.8)	517 (6.8)
Armenia	294 (9.8)	336 (8.6)	406 (5.2)	481 (5.6)	558 (7.1)	640 (15.2)	690 (13.4)
Australia	384 (9.0)	423 (3.7)	478 (4.4)	532 (3.5)	583 (2.6)	626 (1.4)	651 (4.8)
Austria	388 (4.4)	423 (4.8)	477 (3.3)	530 (2.5)	580 (2.5)	620 (4.1)	644 (3.5)
Chinese Taipei	423 (6.5)	457 (3.0)	508 (2.0)	560 (2.6)	609 (2.4)	653 (2.2)	679 (3.0)
Colombia	237 (6.9)	271 (7.9)	335 (9.7)	404 (5.2)	467 (6.1)	522 (4.9)	556 (5.5)
Czech Republic	386 (8.9)	416 (3.5)	467 (4.4)	517 (3.9)	567 (3.8)	610 (5.1)	635 (4.3)
Denmark	383 (6.5)	417 (9.9)	468 (2.6)	521 (3.7)	570 (5.1)	610 (1.6)	636 (4.7)
El Salvador	232 (4.3)	267 (6.2)	327 (5.7)	393 (4.5)	454 (3.4)	507 (3.4)	538 (4.6)
England	403 (6.4)	438 (3.7)	491 (6.0)	545 (2.9)	596 (3.6)	641 (4.8)	666 (6.3)
Georgia	273 (8.6)	306 (7.3)	361 (5.2)	420 (5.8)	477 (4.4)	524 (5.2)	552 (7.9)
Germany	393 (7.6)	427 (4.3)	479 (4.2)	533 (2.5)	582 (1.6)	623 (4.2)	647 (6.0)
Hong Kong SAR	437 (4.6)	466 (4.5)	511 (3.7)	558 (4.2)	601 (3.6)	637 (4.1)	659 (4.2)
Hungary	383 (9.4)	425 (6.1)	485 (3.8)	545 (3.8)	595 (3.4)	637 (6.3)	661 (4.7)
Iran, Islamic Rep. of	267 (7.1)	304 (5.5)	371 (6.5)	441 (5.3)	506 (5.3)	558 (3.4)	587 (3.3)
Italy	395 (5.0)	429 (6.3)	484 (5.2)	538 (3.0)	590 (2.9)	636 (3.8)	664 (4.4)
Japan	428 (7.0)	459 (3.4)	505 (3.1)	551 (1.6)	595 (1.4)	633 (3.4)	655 (3.2)
Kazakhstan	400 (11.2)	433 (9.2)	486 (7.1)	539 (7.1)	585 (5.4)	623 (3.7)	646 (5.0)
Kuwait	137 (8.8)	182 (8.0)	261 (6.5)	355 (5.2)	440 (5.0)	505 (5.9)	538 (3.2)
Latvia	428 (5.4)	454 (4.5)	499 (2.0)	546 (2.5)	589 (2.4)	625 (3.3)	645 (4.0)
Lithuania	401 (5.2)	428 (3.3)	473 (2.8)	518 (2.0)	559 (3.2)	595 (2.2)	615 (4.2)
Morocco	98 (9.9)	139 (7.5)	209 (6.4)	295 (6.3)	383 (8.4)	465 (9.4)	508 (10.7)
Netherlands	421 (6.3)	445 (3.6)	484 (3.6)	525 (2.8)	565 (3.9)	598 (4.1)	617 (5.0)
New Zealand	344 (4.9)	382 (4.7)	447 (3.7)	510 (3.3)	568 (2.9)	614 (3.1)	643 (2.6)
Norway	343 (8.8)	374 (7.7)	429 (4.0)	483 (3.9)	530 (3.3)	570 (3.4)	593 (5.2)
Qatar	75 (6.8)	121 (3.8)	201 (4.0)	296 (2.5)	391 (3.2)	464 (2.0)	502 (2.1)
Russian Federation	407 (7.6)	443 (4.9)	495 (6.6)	549 (4.0)	601 (4.2)	646 (4.9)	672 (8.8)
Scotland	367 (6.1)	400 (3.7)	452 (2.5)	506 (2.7)	552 (2.1)	593 (4.1)	619 (4.3)
Singapore	418 (7.0)	464 (7.0)	531 (6.0)	592 (4.7)	652 (4.4)	701 (5.0)	727 (3.9)
Slovak Republic	376 (13.9)	416 (8.3)	476 (4.7)	534 (4.4)	584 (2.8)	627 (4.0)	652 (6.9)
Slovenia	383 (6.2)	416 (1.7)	471 (3.7)	524 (3.2)	571 (2.8)	610 (2.7)	634 (2.7)
Sweden	400 (3.3)	429 (4.0)	478 (4.0)	527 (4.2)	575 (3.0)	617 (2.4)	642 (4.0)
Tunisia	68 (9.6)	119 (14.0)	214 (7.3)	329 (7.5)	428 (6.0)	497 (4.6)	533 (5.1)
Ukraine	327 (6.6)	364 (5.1)	421 (4.6)	480 (3.0)	532 (3.0)	576 (4.2)	601 (4.2)
United States	392 (4.9)	427 (4.3)	484 (3.2)	543 (2.8)	597 (3.4)	643 (2.8)	668 (3.2)
Yemen	5 (0.0)	20 (8.3)	94 (8.3)	187 (8.3)	287 (8.3)	379 (8.6)	430 (9.5)
<b>Benchmarking Participants</b>							
Alberta, Canada	415 (7.7)	446 (6.9)	495 (5.9)	547 (4.0)	593 (3.3)	633 (3.8)	657 (5.8)
British Columbia, Canada	409 (5.3)	442 (5.5)	491 (4.2)	540 (2.8)	586 (2.0)	627 (2.9)	650 (4.7)
Dubai, UAE	267 (7.6)	312 (8.4)	390 (5.2)	469 (3.7)	537 (3.3)	589 (3.3)	620 (3.3)
Massachusetts, US	451 (10.8)	483 (7.9)	526 (4.3)	574 (4.6)	618 (6.4)	657 (4.8)	679 (5.3)
Minnesota, US	411 (11.2)	446 (10.2)	503 (7.5)	558 (6.0)	607 (5.8)	647 (6.2)	671 (5.7)
Ontario, Canada	396 (8.1)	432 (5.7)	487 (3.0)	541 (4.6)	590 (4.7)	632 (3.6)	657 (5.2)
Quebec, Canada	405 (6.8)	430 (5.3)	474 (3.6)	519 (3.5)	563 (3.4)	601 (2.2)	623 (9.2)

SOURCE: IEA's Trends in International Mathematics and Science Study (TIMSS) 2007

( ) Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

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

Exhibit D.1 Percentiles of Achievement in Science (Continued)

TIMSS2007  
Science 8<sup>th</sup> Grade

Country	5th Percentile	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile	95th Percentile
Algeria	305 (2.9)	327 (2.6)	366 (1.9)	409 (2.3)	451 (2.1)	488 (1.4)	511 (3.6)
Armenia	325 (7.0)	366 (7.0)	426 (4.7)	486 (5.3)	544 (5.5)	612 (13.7)	662 (24.0)
Australia	378 (5.7)	410 (6.0)	462 (4.4)	517 (3.3)	569 (4.2)	617 (6.2)	644 (9.3)
Bahrain	318 (3.5)	351 (3.8)	409 (2.3)	472 (2.3)	530 (1.5)	575 (2.4)	600 (3.9)
Bosnia and Herzegovina	329 (4.0)	359 (5.5)	414 (4.2)	470 (2.8)	521 (4.2)	565 (3.8)	589 (3.4)
Botswana	181 (7.4)	220 (4.9)	287 (4.2)	361 (3.5)	425 (2.7)	478 (3.0)	509 (7.1)
Bulgaria	287 (11.3)	330 (16.9)	403 (8.0)	478 (5.7)	543 (4.1)	595 (6.8)	627 (12.3)
Chinese Taipei	400 (7.7)	439 (6.4)	506 (6.2)	571 (4.9)	624 (4.2)	665 (3.3)	690 (4.7)
Colombia	290 (9.1)	319 (4.7)	366 (3.9)	418 (4.1)	469 (5.2)	514 (3.9)	540 (4.7)
Cyprus	303 (6.8)	339 (3.7)	397 (2.3)	458 (3.0)	511 (2.1)	556 (3.1)	582 (3.6)
Czech Republic	419 (3.8)	447 (2.3)	492 (2.3)	540 (2.4)	587 (2.6)	630 (3.4)	655 (2.8)
Egypt	240 (6.5)	275 (5.6)	338 (5.0)	412 (4.6)	481 (4.8)	537 (4.3)	564 (3.3)
El Salvador	274 (6.4)	298 (4.9)	340 (2.7)	386 (3.4)	434 (4.7)	477 (3.4)	504 (4.5)
England	393 (14.3)	427 (6.9)	486 (7.3)	546 (5.2)	602 (5.1)	649 (4.9)	675 (6.2)
Georgia	277 (16.1)	309 (7.3)	364 (6.4)	426 (5.5)	481 (6.7)	527 (4.4)	550 (4.7)
Ghana	124 (8.3)	163 (8.0)	229 (6.8)	303 (5.2)	378 (6.2)	445 (8.6)	483 (10.3)
Hong Kong SAR	376 (11.4)	419 (11.2)	483 (8.8)	541 (5.1)	586 (3.3)	625 (4.4)	648 (6.6)
Hungary	408 (5.0)	437 (5.2)	488 (5.3)	543 (2.7)	592 (2.9)	635 (3.5)	658 (4.2)
Indonesia	302 (7.1)	330 (4.8)	377 (4.0)	428 (4.5)	479 (3.8)	520 (3.9)	546 (4.5)
Iran, Islamic Rep. of	329 (4.5)	355 (4.0)	403 (4.5)	457 (4.5)	513 (5.3)	566 (5.2)	597 (10.0)
Israel	288 (8.3)	329 (6.0)	402 (8.0)	477 (5.9)	540 (6.4)	591 (4.3)	622 (9.0)
Italy	361 (6.9)	393 (5.3)	445 (3.1)	498 (2.7)	549 (2.4)	590 (3.4)	615 (6.9)
Japan	418 (5.4)	454 (4.3)	507 (2.5)	559 (2.5)	606 (2.2)	648 (3.1)	672 (3.4)
Jordan	308 (5.3)	349 (5.3)	416 (4.7)	491 (4.1)	554 (5.9)	601 (5.0)	627 (5.3)
Korea, Rep. of	420 (4.4)	452 (4.2)	505 (3.1)	559 (1.8)	606 (1.9)	646 (2.1)	670 (3.3)
Kuwait	263 (6.2)	298 (4.8)	358 (4.5)	423 (3.0)	481 (2.4)	530 (3.2)	557 (3.8)
Lebanon	255 (9.9)	284 (7.2)	344 (6.4)	415 (7.8)	484 (6.2)	539 (5.7)	569 (7.0)
Lithuania	382 (6.0)	414 (6.8)	466 (3.0)	522 (2.0)	574 (1.9)	616 (3.9)	640 (3.8)
Malaysia	319 (6.6)	357 (9.9)	416 (5.9)	475 (5.5)	530 (6.3)	581 (7.6)	608 (10.4)
Malta	251 (3.7)	298 (2.9)	386 (2.3)	468 (1.3)	537 (2.5)	595 (2.3)	627 (2.2)
Morocco	274 (7.8)	301 (3.5)	348 (3.2)	401 (4.4)	456 (3.8)	504 (4.0)	532 (6.2)
Norway	360 (6.5)	389 (5.6)	438 (3.0)	491 (3.2)	539 (2.2)	578 (1.7)	600 (3.2)
Oman	253 (7.7)	293 (5.3)	360 (3.2)	429 (4.2)	492 (2.0)	541 (3.3)	568 (1.7)
Palestinian Nat'l Auth.	213 (9.5)	255 (8.1)	327 (4.2)	411 (4.0)	486 (3.3)	543 (4.4)	574 (4.5)
Qatar	101 (4.3)	146 (4.5)	229 (3.0)	327 (2.7)	414 (2.1)	480 (2.3)	511 (3.1)
Romania	307 (8.9)	345 (6.3)	405 (5.9)	467 (6.8)	524 (4.7)	572 (4.5)	597 (5.6)
Russian Federation	397 (6.8)	427 (6.6)	477 (4.0)	532 (4.4)	584 (3.4)	627 (5.1)	653 (7.2)
Saudi Arabia	272 (7.8)	300 (5.6)	351 (4.3)	405 (1.7)	459 (2.6)	503 (3.4)	529 (4.5)
Scotland	358 (6.2)	388 (5.4)	441 (5.0)	499 (3.9)	553 (4.1)	597 (5.1)	623 (3.6)
Serbia	318 (7.4)	359 (6.6)	419 (3.9)	477 (3.1)	529 (3.3)	571 (2.5)	596 (8.0)
Singapore	374 (9.0)	421 (7.9)	500 (7.2)	578 (4.8)	644 (3.1)	694 (3.0)	720 (4.4)
Slovenia	414 (3.7)	442 (3.2)	491 (2.5)	541 (2.0)	587 (1.8)	628 (3.3)	651 (4.0)
Sweden	373 (4.9)	405 (4.1)	460 (4.5)	515 (2.5)	564 (1.7)	608 (2.6)	633 (3.3)
Syrian Arab Republic	326 (4.9)	355 (5.1)	402 (3.6)	454 (3.6)	505 (3.9)	546 (3.0)	569 (4.3)
Thailand	334 (5.4)	363 (5.7)	414 (5.9)	470 (4.1)	526 (5.8)	578 (5.6)	609 (10.7)
Tunisia	346 (3.1)	367 (2.2)	404 (2.3)	445 (2.8)	486 (2.9)	524 (2.3)	545 (6.1)
Turkey	308 (4.2)	336 (4.3)	390 (4.6)	451 (4.0)	518 (4.6)	577 (4.0)	610 (5.1)
Ukraine	338 (7.0)	374 (7.3)	433 (4.5)	491 (3.1)	543 (3.5)	588 (3.3)	613 (5.2)
United States	378 (4.8)	410 (3.5)	464 (3.2)	524 (3.2)	578 (2.9)	623 (2.6)	649 (1.5)
<b>Benchmarking Participants</b>							
Basque Country, Spain	372 (7.5)	403 (4.1)	452 (4.1)	501 (3.4)	548 (3.4)	587 (3.9)	609 (5.4)
British Columbia, Canada	402 (5.1)	432 (4.1)	481 (3.1)	530 (2.8)	574 (2.2)	612 (4.1)	636 (4.7)
Dubai, UAE	326 (8.8)	361 (6.2)	426 (4.8)	495 (4.4)	555 (6.4)	605 (6.2)	634 (5.8)
Massachusetts, US	416 (8.1)	449 (7.8)	505 (6.2)	562 (5.4)	612 (5.3)	653 (5.2)	677 (5.7)
Minnesota, US	412 (9.7)	444 (7.4)	492 (7.4)	542 (5.1)	588 (5.9)	627 (9.3)	651 (6.7)
Ontario, Canada	410 (9.2)	437 (6.1)	481 (3.8)	528 (2.9)	574 (3.7)	614 (5.1)	637 (6.2)
Quebec, Canada	392 (8.9)	419 (4.2)	462 (3.1)	508 (3.2)	553 (2.7)	593 (5.0)	617 (4.8)

SOURCE: IEA's Trends in International Mathematics and Science Study (TIMSS) 2007

( ) Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

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

## Exhibit D.2 Standard Deviations of Achievement in Science

TIMSS2007  
Science 4<sup>th</sup> Grade

Country	Overall		Girls		Boys	
	Mean	Standard Deviation	Mean	Standard Deviation	Mean	Standard Deviation
Algeria	354 (6.0)	102 (3.3)	359 (6.5)	102 (3.5)	349 (6.0)	101 (3.5)
Armenia	484 (5.7)	119 (3.9)	493 (7.3)	119 (4.9)	476 (5.2)	118 (3.7)
Australia	527 (3.3)	80 (2.0)	525 (4.0)	76 (2.4)	530 (3.5)	84 (2.3)
Austria	526 (2.5)	77 (1.3)	519 (2.7)	76 (1.5)	532 (2.9)	78 (1.7)
Chinese Taipei	557 (2.0)	77 (1.3)	556 (2.3)	73 (1.5)	558 (2.4)	81 (1.7)
Colombia	400 (5.4)	97 (2.7)	393 (5.5)	93 (2.8)	408 (6.0)	101 (3.2)
Czech Republic	515 (3.1)	76 (1.5)	511 (3.7)	72 (1.7)	518 (3.4)	78 (2.1)
Denmark	517 (2.9)	77 (1.8)	514 (3.2)	74 (2.6)	520 (3.6)	80 (2.4)
El Salvador	390 (3.4)	93 (1.7)	383 (4.5)	92 (2.7)	396 (4.6)	94 (2.8)
England	542 (2.9)	80 (1.8)	543 (3.1)	78 (1.8)	540 (3.4)	83 (2.4)
Georgia	418 (4.6)	85 (2.1)	423 (4.7)	82 (2.9)	413 (5.1)	86 (2.2)
Germany	528 (2.4)	79 (1.5)	520 (2.6)	78 (2.1)	535 (2.9)	80 (1.7)
Hong Kong SAR	554 (3.5)	68 (1.5)	553 (3.6)	65 (1.6)	556 (4.3)	71 (2.5)
Hungary	536 (3.3)	85 (2.0)	535 (4.4)	83 (2.6)	538 (3.6)	87 (2.6)
Iran, Islamic Rep. of	436 (4.3)	97 (2.1)	443 (5.6)	93 (2.8)	429 (6.0)	101 (2.7)
Italy	535 (3.2)	81 (1.8)	529 (3.2)	80 (2.0)	541 (3.7)	82 (2.2)
Japan	548 (2.1)	70 (1.1)	548 (2.5)	68 (1.5)	547 (2.4)	72 (1.7)
Kazakhstan	533 (5.6)	74 (2.6)	533 (5.5)	74 (3.0)	532 (6.3)	75 (2.9)
Kuwait	348 (4.4)	123 (2.5)	379 (4.6)	111 (2.8)	315 (7.3)	127 (2.9)
Latvia	542 (2.3)	67 (1.7)	545 (2.8)	64 (2.4)	539 (3.0)	69 (1.9)
Lithuania	514 (2.4)	65 (1.1)	516 (2.7)	63 (1.6)	512 (2.9)	67 (1.8)
Morocco	297 (5.9)	124 (3.6)	302 (6.4)	122 (3.5)	292 (6.8)	126 (4.8)
Netherlands	523 (2.6)	60 (1.5)	518 (3.0)	60 (1.7)	528 (2.8)	59 (1.9)
New Zealand	504 (2.6)	90 (1.6)	506 (2.8)	85 (1.6)	502 (3.5)	95 (2.3)
Norway	477 (3.5)	77 (1.8)	475 (3.8)	77 (2.7)	478 (4.2)	76 (2.1)
Qatar	294 (2.6)	129 (1.6)	307 (2.9)	128 (2.4)	281 (2.8)	130 (1.4)
Russian Federation	546 (4.8)	81 (2.5)	548 (5.1)	77 (2.8)	544 (5.0)	84 (3.3)
Scotland	500 (2.3)	76 (1.5)	500 (3.0)	72 (1.8)	501 (2.4)	80 (2.0)
Singapore	587 (4.1)	93 (2.3)	587 (4.3)	87 (2.4)	587 (4.4)	98 (2.5)
Slovak Republic	526 (4.8)	87 (4.8)	521 (5.2)	88 (6.1)	530 (4.8)	87 (4.0)
Slovenia	518 (1.9)	76 (1.3)	518 (2.4)	74 (2.0)	518 (2.4)	78 (1.5)
Sweden	525 (2.9)	74 (1.3)	526 (2.7)	71 (1.6)	524 (3.7)	76 (1.6)
Tunisia	318 (5.9)	141 (2.1)	335 (6.4)	135 (2.9)	304 (6.2)	145 (2.3)
Ukraine	474 (3.1)	83 (1.6)	475 (3.4)	79 (2.1)	473 (3.5)	86 (2.3)
United States	539 (2.7)	84 (1.4)	536 (3.0)	82 (1.7)	541 (3.1)	86 (1.5)
Yemen	197 (7.2)	130 (2.5)	209 (9.9)	130 (3.4)	188 (8.1)	129 (3.3)
<b>Benchmarking Participants</b>						
Alberta, Canada	543 (3.8)	74 (1.8)	540 (3.7)	71 (1.8)	545 (4.6)	76 (2.3)
British Columbia, Canada	537 (2.7)	73 (1.6)	538 (2.9)	71 (1.8)	536 (3.1)	74 (2.2)
Dubai, UAE	460 (2.8)	107 (2.3)	473 (4.5)	97 (2.5)	448 (4.9)	115 (3.2)
Massachusetts, US	571 (4.3)	69 (1.8)	566 (4.3)	68 (2.6)	576 (4.7)	70 (2.9)
Minnesota, US	551 (6.1)	80 (4.3)	549 (6.9)	77 (3.7)	554 (6.3)	82 (5.9)
Ontario, Canada	536 (3.7)	78 (2.5)	532 (4.1)	75 (2.6)	539 (4.3)	81 (3.2)
Quebec, Canada	517 (2.7)	67 (1.5)	516 (3.1)	67 (1.8)	518 (3.5)	67 (2.0)

SOURCE: IEA's Trends in International Mathematics and Science Study (TIMSS) 2007

( ) Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

## Exhibit D.2 Standard Deviations of Achievement in Science (Continued)

TIMSS2007  
Science 8<sup>th</sup> Grade

Country	Overall		Girls		Boys	
	Mean	Standard Deviation	Mean	Standard Deviation	Mean	Standard Deviation
Algeria	408 (1.7)	63 (1.0)	408 (1.9)	64 (1.5)	408 (2.2)	62 (1.0)
Armenia	488 (5.8)	101 (4.5)	492 (7.1)	101 (5.2)	484 (5.2)	102 (4.2)
Australia	515 (3.6)	80 (2.1)	505 (5.1)	75 (2.6)	524 (5.4)	84 (3.2)
Bahrain	467 (1.7)	86 (1.1)	499 (1.9)	70 (1.2)	437 (2.6)	89 (1.7)
Bosnia and Herzegovina	466 (2.8)	79 (1.6)	464 (3.4)	78 (2.0)	467 (2.9)	81 (2.0)
Botswana	355 (3.1)	99 (1.2)	365 (3.7)	95 (1.7)	343 (3.6)	103 (1.9)
Bulgaria	470 (5.9)	103 (3.6)	477 (6.2)	100 (4.1)	464 (6.8)	105 (4.5)
Chinese Taipei	561 (3.7)	89 (1.6)	559 (3.7)	83 (1.8)	563 (4.4)	95 (2.1)
Colombia	417 (3.5)	77 (1.8)	400 (4.4)	72 (2.0)	435 (3.7)	77 (2.3)
Cyprus	452 (2.0)	85 (1.2)	460 (2.8)	79 (1.6)	444 (2.4)	90 (1.6)
Czech Republic	539 (1.9)	71 (1.1)	534 (2.2)	71 (1.5)	543 (2.4)	71 (1.5)
Egypt	408 (3.6)	99 (1.5)	417 (4.8)	97 (2.0)	400 (4.6)	101 (2.1)
El Salvador	387 (2.9)	70 (1.9)	377 (3.7)	69 (2.7)	399 (4.1)	69 (2.5)
England	542 (4.5)	85 (2.6)	537 (4.6)	84 (2.7)	546 (5.8)	87 (3.1)
Georgia	421 (4.8)	83 (2.4)	432 (4.8)	79 (2.1)	410 (5.2)	86 (3.2)
Ghana	303 (5.4)	108 (2.9)	288 (5.9)	108 (3.5)	316 (5.6)	107 (2.9)
Hong Kong SAR	530 (4.9)	81 (3.0)	533 (4.5)	74 (3.2)	528 (6.6)	87 (3.6)
Hungary	539 (2.9)	77 (1.8)	533 (3.5)	74 (2.3)	545 (3.3)	78 (2.1)
Indonesia	427 (3.4)	74 (2.0)	426 (3.8)	75 (2.4)	428 (3.6)	74 (2.1)
Iran, Islamic Rep. of	459 (3.6)	81 (2.1)	466 (4.6)	80 (2.9)	453 (5.4)	82 (3.0)
Israel	468 (4.3)	101 (2.2)	472 (4.9)	96 (3.0)	463 (5.2)	106 (2.3)
Italy	495 (2.8)	78 (2.0)	491 (3.3)	76 (2.6)	499 (3.1)	79 (2.0)
Japan	554 (1.9)	77 (1.5)	552 (2.8)	76 (2.4)	556 (2.5)	78 (1.6)
Jordan	482 (4.0)	98 (1.9)	499 (5.8)	90 (2.2)	466 (5.5)	102 (2.5)
Korea, Rep. of	553 (2.0)	76 (1.1)	549 (2.7)	72 (1.3)	557 (2.5)	79 (1.5)
Kuwait	418 (2.8)	89 (1.6)	441 (3.4)	78 (1.2)	391 (4.2)	94 (2.2)
Lebanon	414 (5.9)	97 (2.9)	410 (6.2)	97 (3.1)	417 (6.7)	97 (3.6)
Lithuania	519 (2.5)	78 (1.8)	518 (3.2)	77 (1.9)	519 (2.7)	80 (2.3)
Malaysia	471 (6.0)	88 (3.6)	475 (6.4)	84 (3.7)	466 (6.7)	93 (4.1)
Malta	457 (1.4)	114 (1.3)	456 (1.8)	109 (1.6)	458 (2.2)	118 (1.8)
Morocco	402 (2.9)	79 (2.1)	403 (3.7)	79 (2.1)	401 (3.6)	78 (3.0)
Norway	487 (2.2)	73 (1.3)	487 (2.4)	71 (1.6)	486 (3.0)	76 (1.8)
Oman	423 (3.0)	96 (1.8)	452 (3.6)	83 (2.0)	391 (4.6)	98 (2.1)
Palestinian Nat'l Auth.	404 (3.5)	111 (1.9)	422 (4.5)	106 (2.8)	386 (5.1)	113 (2.3)
Qatar	319 (1.7)	126 (1.4)	354 (2.3)	110 (1.9)	284 (2.3)	131 (1.6)
Romania	462 (3.9)	88 (2.2)	466 (4.1)	84 (3.1)	458 (4.6)	91 (2.4)
Russian Federation	530 (3.9)	78 (1.6)	527 (4.3)	75 (1.7)	533 (4.2)	80 (2.2)
Saudi Arabia	403 (2.4)	78 (1.7)	426 (2.9)	70 (1.5)	383 (3.9)	79 (2.3)
Scotland	496 (3.4)	81 (1.8)	493 (3.5)	79 (1.8)	498 (4.2)	83 (2.2)
Serbia	470 (3.2)	85 (1.9)	472 (3.7)	82 (2.6)	469 (3.8)	88 (2.1)
Singapore	567 (4.4)	104 (3.0)	571 (4.7)	99 (3.4)	563 (5.2)	109 (3.3)
Slovenia	538 (2.2)	72 (1.4)	536 (2.6)	69 (1.4)	539 (2.7)	75 (1.7)
Sweden	511 (2.6)	78 (1.5)	512 (3.0)	76 (1.8)	510 (2.8)	80 (1.7)
Syrian Arab Republic	452 (2.9)	75 (1.6)	448 (3.3)	73 (1.9)	457 (4.2)	76 (2.2)
Thailand	471 (4.3)	83 (2.8)	480 (4.5)	78 (2.8)	462 (4.9)	87 (3.0)
Tunisia	445 (2.1)	60 (1.0)	436 (2.3)	60 (1.4)	455 (2.6)	59 (1.2)
Turkey	454 (3.7)	92 (1.7)	457 (4.0)	89 (2.3)	452 (4.0)	94 (1.8)
Ukraine	485 (3.5)	84 (1.9)	484 (3.9)	80 (2.3)	486 (3.6)	88 (2.0)
United States	520 (2.9)	82 (1.1)	514 (3.0)	79 (1.4)	526 (3.2)	85 (1.4)
<b>Benchmarking Participants</b>						
Basque Country, Spain	498 (3.0)	72 (1.6)	490 (3.6)	68 (1.8)	505 (3.9)	75 (2.2)
British Columbia, Canada	526 (2.7)	71 (1.7)	523 (2.9)	68 (2.1)	529 (3.3)	73 (2.0)
Dubai, UAE	489 (2.8)	94 (1.6)	495 (5.1)	88 (2.5)	483 (6.1)	99 (2.8)
Massachusetts, US	556 (4.6)	79 (3.5)	551 (5.1)	79 (4.2)	561 (5.0)	80 (3.8)
Minnesota, US	539 (4.8)	72 (2.9)	535 (4.3)	69 (3.1)	542 (6.1)	74 (3.5)
Ontario, Canada	526 (3.6)	69 (2.4)	521 (3.8)	67 (2.5)	531 (4.3)	71 (2.8)
Quebec, Canada	507 (3.1)	69 (2.4)	503 (3.3)	66 (2.2)	511 (4.1)	72 (3.2)

SOURCE: IEA's Trends in International Mathematics and Science Study (TIMSS) 2007

(1) Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

