

# Appendix D

## Percentiles and Standard Deviations of Science Achievement



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Countries	5th Percentile	25th Percentile	50th Percentile	75th Percentile	95th Percentile
	324 (6.7)	407 (5.4)	463 (3. )	520 (4.7)	58 (6.1)
	3 7 (6.6)	478 (5.3)	531 (4.1)	580 (3.6)	644 (5.1)
	311 (4.3)	38 (2.3)	441 (2.4)	4 1 (3.4)	556 (4.6)
	3 4 (7.2)	477 (3.2)	523 (2. )	562 (1.8)	613 (2.3)
	220 (5.0)	306 (3.6)	367 (2. )	425 (3.7)	503 (8.7)
	310 (13.8)	421 (6. )	487 (3. )	544 (4.2)	618 (5.2)
	275 (5.2)	355 (3.0)	412 (3.0)	471 (4.7)	550 (6.4)
	434 (4. )	51 (4.6)	577 (4.4)	628 (3.3)	6 0 (4.4)
	306 (4.1)	3 0 (3.5)	445 (2.5)	4 7 (2.3)	567 (2.4)
	243 (11.8)	348 (5. )	428 (6.5)	4 8 (2.6)	581 (4.5)
	413 (7.3)	4 2 (4.7)	547 (6.0)	5 7 (5.2)	665 (3.5)
	445 (6.1)	50 (4.1)	553 (3.3)	5 6 (2.8)	65 (5.6)
	52 (7.2)	168 (5.8)	256 (7. )	345 (6.7)	450 (6.2)
	438 (8.2)	51 (3.7)	562 (2.3)	600 (3.3)	654 (3.0)
	415 (6. )	4 2 (4.5)	543 (4.1)	5 5 (4.3)	666 (4. )
	287 (8.8)	368 (4.3)	422 (4.7)	475 (4. )	546 (2.8)
	336 (3.5)	403 (2.5)	453 (2.1)	502 (1. )	573 (4.8)
	342 (3.2)	432 (4.7)	4 2 (3.5)	548 (3.2)	623 (2.8)
	358 (4.8)	43 (6.6)	4 4 (3.2)	545 (3.1)	614 (4. )
	42 (3.7)	507 (2. )	556 (1. )	601 (1.6)	663 (4.3)
	31 (4.3)	417 (4.4)	481 (4.8)	538 (2. )	612 (3.4)
	438 (4.8)	513 (2.4)	562 (1. )	606 (2.1)	666 (2.0)
	3 (1.5)	467 (3.1)	514 (2.4)	560 (2. )	621 (2.5)
	240 (5.5)	32 (4.3)	3 3 (5.7)	460 (5.5)	544 (4. )
	404 (3.3)	472 (3.4)	521 (1. )	567 (3.1)	633 (2.6)
	287 (7.7)	3 0 (4. )	457 (3.8)	515 (4.6)	588 (4.7)
	3 8 (7.2)	467 (4.1)	513 (4.4)	556 (4.5)	615 (6.0)
	346 (4.1)	423 (5.3)	475 (3.8)	524 (5.0)	58 (3.8)
	282 (4.5)	350 (2.6)	3 7 (3.0)	444 (3.3)	510 (5.0)
	430 (11.0)	4 6 (3.3)	538 (3.4)	57 (3.6)	631 (2.6)
	3 3 (6.7)	471 (4.4)	523 (4.8)	570 (4. )	637 (11.6)
	372 (4.5)	450 (3.4)	4 8 (1.8)	542 (3.2)	601 (3.2)
	273 (7.3)	373 (4.1)	441 (4.0)	503 (3.3)	576 (4.0)
	208 (5.7)	305 (5.6)	378 (7.7)	452 (6.3)	542 (7.0)
	314 (7. )	40 (6.5)	472 (7.1)	533 (5.3)	612 ( .2)
	38 ( .0)	464 (4.1)	515 (4.1)	565 (3.7)	633 (5.4)
	277 (8.1)	34 (3.7)	3 8 (4.6)	448 (4.6)	513 (3.1)
	380 (6.7)	462 (4.3)	515 (4. )	565 (4.0)	630 (4.8)
	327 (3. )	412 (3.6)	471 (2. )	525 (3. )	602 (4.5)
	403 (13.4)	522 (6.7)	58 (5.4)	644 (2. )	70 (2.8)
	3 0 ( .6)	467 (2. )	520 (3.8)	56 (3.2)	637 (5.5)
	40 (4.2)	476 (2.8)	521 (2.5)	566 (2.8)	62 (2.6)
	53 (7.6)	151 (4.0)	226 (5.1)	31 ( .5)	4 (1 .2)
	3 7 (6.3)	476 (3.7)	528 (3.1)	575 (2.5)	640 (4.6)
	305 (3.4)	362 (2.8)	403 (2.4)	444 (2.3)	505 (3.3)
	387 (5.1)	474 (4.5)	531 (3.2)	584 (3.5)	653 (4.6)
<b>Benchmarking Participants</b>					
	371 (3.0)	441 (3. )	48 (1.6)	537 (4.1)	605 (5.5)
	411 (6.0)	484 (6.3)	533 (5.8)	57 (4.2)	643 (5.0)
	423 (4.2)	4 0 (3.6)	536 (2.8)	577 (2.5)	635 (3.4)
	427 (5.6)	4 1 (2. )	533 (4.1)	572 (4.0)	62 (4.8)

2003

1 Percentiles of Achievement in Science



Countries	5th Percentile	25th Percentile	50th Percentile	75th Percentile	95th Percentile
	271 (8.5)	371 (4.6)	445 (4.3)	506 (3.4)	57 (5. )
	374 (8.5)	473 (7.3)	528 (4.5)	576 (4.0)	644 (3.0)
	424 (3.1)	483 (2.1)	520 (1.8)	555 (1.4)	607 (3.8)
	434 (3.3)	50 (1. )	554 (2.4)	5 8 (3. )	65 (4.0)
	353 (5.4)	432 (3.4)	485 (2.6)	533 (1.8)	5 4 (3.6)
	3 6 ( .2)	488 (5.8)	545 (3.1)	5 7 (3.0)	66 (6.1)
	437 (8.5)	506 (2.8)	546 (3.4)	583 (3. )	634 (2.2)
	3 3 (8.4)	47 (4. )	536 (4.1)	584 (3.4)	652 (7.3)
	243 (6.2)	351 (4.1)	420 (3.5)	484 (3.0)	561 (3. )
	371 (7.7)	462 (4. )	51 (5.1)	573 (3.8)	650 (4.4)
	413 (2.2)	501 (2.1)	548 (2.0)	5 2 (2.4)	656 (2.3)
	411 (7.6)	48 (3.5)	536 (2.4)	578 (2.6)	638 (1.4)
	3 6 (6. )	46 (4.3)	516 (2.8)	558 (2.6)	615 (2.3)
	342 (8.0)	443 (6.6)	505 (4.2)	555 (3.3)	624 ( .5)
	4 (13.0)	215 ( .5)	308 (8.7)	3 7 (7.2)	501 (4. )
	435 (4.8)	4 1 (2.0)	527 (2.6)	561 (2.1)	611 (3.6)
	366 (6.3)	46 (3.1)	528 (2.2)	578 (2.4)	646 (3.3)
	31 (7.3)	412 (5. )	472 (4.3)	525 (2.4)	5 5 (4. )
	7 ( .0)	222 (7.1)	327 ( .6)	446 (15.8)	564 (20.3)
	38 (7.2)	471 (5.6)	528 (5.8)	582 (4.6)	65 (6.6)
	36 (6.1)	453 (4.8)	506 (3.5)	555 (3.3)	624 (6.0)
	406 (13.6)	515 (7.8)	573 (6.1)	624 (6.3)	6 4 (6.8)
	356 (5.0)	440 (4.5)	4 8 (3.2)	543 (2.4)	607 (4.4)
	(7.4)	226 (7.3)	320 (6.3)	407 (5.5)	513 (7.4)
	3 3 (4.6)	484 (3.2)	541 (3.5)	5 2 (1. )	661 (3.5)
<b>Benchmarking Participants</b>					
	434 (5.8)	511 (3.8)	556 (4.7)	600 (4.0)	662 (7.4)
	405 (6.3)	4 1 (3.1)	545 (3.6)	5 3 (3.8)	661 (7.8)
	37 (3.6)	453 (2.7)	505 (3.0)	550 (2.7)	60 (7.5)

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	461 (3.5)	81 (1.7)	468 (4.0)	7 (2.3)	455 (3.4)	83 (1. )
( )	527 (3.8)	75 (2.0)	517 (4.6)	72 (2.2)	537 (4.6)	77 (2.6)
( )	438 (1.8)	74 (1.0)	453 (2.7)	67 (1.1)	423 (2.3)	7 (1.4)
( ( ) )	516 (2.5)	67 (2.2)	505 (3.0)	64 (2.7)	528 (3.4)	68 (3.0)
( )	365 (2.8)	86 (2.2)	364 (3.2)	84 (2.5)	366 (3.4)	8 (2.3)
( )	47 (5.2)	3 (3.7)	470 (6.3)	4 (4.5)	487 (5.2)	2 (3.5)
( )	413 (2. )	84 (1.5)	3 8 (3.2)	81 (1.7)	427 (3.6)	84 (1. )
( )	571 (3.5)	7 (1.7)	571 (3.8)	74 (1.7)	572 (3.8)	83 (1. )

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	437 (4.3)	6 (2.2)	441 (4.5)	3 (2.5)	432 (4.7)	8 (2.5)
	521 (4.2)	82 (2.6)	522 (3.8)	77 (2.7)	51 (5.5)	87 (3.1)
	518 (1.8)	55 (1.0)	518 (1. )	53 (1.1)	51 (2.3)	57 (1.5)
	551 (1.7)	6 (1.3)	548 (2.0)	65 (1.6)	555 (2.2)	72 (1.5)
	480 (2.4)	74 (1.3)	477 (2.5)	72 (1.7)	484 (2. )	76 (1.4)
	540 (3.6)	83 (2.2)	542 (3.3)	80 (2.2)	538 (4.6)	86 (3.0)
	542 (3.1)	60 (1.2)	544 (3.3)	57 (1.3)	541 (3.2)	62 (1.6)
	530 (3.0)	7 (1.8)	527 (3.7)	78 (2.6)	533 (3.2)	80 (1.8)
	414 (4.1)	7 (2.4)	426 (7.0)	3 (4.1)	406 (4.7)	8 (2.6)
	516 (3.8)	85 (1. )	514 (4.2)	85 (2.0)	517 (3.8)	85 (2.3)
	543 (1.5)	73 (1.2)	542 (1.8)	6 (1.5)	545 (2.0)	76 (1.6)
	532 (2.5)	6 (1.5)	534 (2.6)	65 (1. )	52 (3.2)	72 (2.1)
	512 (2.6)	66 (1.5)	513 (3.0)	65 (2.1)	513 (2. )	68 (1.5)
	4 6 (4.6)	85 (3.0)	503 (4.8)	85 (3.2)	4 0 (4. )	85 (3.3)
	304 (6.7)	125 (2.7)	306 (7. )	126 (3.4)	303 (6.8)	124 (3.1)
	525 (2.0)	53 (1.1)	521 (2.2)	54 (1.5)	52 (2.2)	53 (1.3)
	520 (2.5)	85 (2.0)	523 (3.3)	83 (2.1)	517 (2.5)	87 (2.2)
	466 (2.6)	84 (1.6)	467 (3.2)	83 (2.4)	466 (2. )	84 (1.7)
	332 ( .4)	145 (5.7)	33 (10.8)	146 (6.2)	324 (8.8)	145 (5.4)
	526 (5.2)	82 (2.3)	527 (5. )	81 (2.8)	526 (4. )	83 (2.4)
	502 (2. )	78 (1. )	4 6 (3.1)	76 (1.7)	508 (4.0)	7 (2.8)
	565 (5.5)	87 (3.3)	565 (5.4)	82 (3.0)	565 (6.4)	1 (3. )
	4 0 (2.5)	77 (1.4)	4 1 (3.0)	75 (1. )	4 0 (3.2)	7 (2.0)
	314 (5.7)	126 (2.6)	316 (6.1)	125 (3.1)	312 (6.0)	126 (3.0)
	536 (2.5)	81 (1.1)	533 (2.5)	7 (1.1)	538 (2.8)	83 (1.4)
<b>Benchmarking Participants</b>						
	553 (3.7)	6 (2.0)	550 (3. )	65 (1.8)	556 (4.5)	73 (2.6)