

APPENDIX E

Standard Deviations of Achievement

Appendix E.1: Average Mathematics Achievement and Standard Deviations by Gender

Country	Overall		Girls		Boys	
	Mean	Standard Deviation	Mean	Standard Deviation	Mean	Standard Deviation
Albania	494 (3.4)	86 (2.4)	493 (3.8)	85 (2.6)	495 (3.9)	87 (3.2)
Armenia	498 (2.5)	68 (1.5)	499 (2.6)	66 (1.3)	497 (3.2)	70 (2.1)
Australia	516 (2.8)	87 (1.9)	511 (2.9)	82 (2.0)	521 (3.3)	91 (2.3)
Austria	539 (2.0)	65 (1.1)	535 (2.8)	63 (1.4)	543 (2.1)	66 (1.3)
Azerbaijan	515 (2.7)	84 (1.7)	517 (3.1)	81 (2.2)	514 (3.1)	87 (2.1)
Bahrain	480 (2.6)	87 (1.6)	482 (3.2)	86 (2.2)	477 (3.5)	88 (1.8)
Belgium (Flemish)	532 (1.9)	68 (1.2)	527 (2.1)	66 (1.4)	538 (2.8)	68 (1.7)
Bosnia and Herzegovina	452 (2.4)	75 (1.2)	447 (2.7)	73 (1.5)	456 (2.8)	77 (1.6)
Bulgaria	515 (4.3)	86 (3.0)	514 (4.7)	84 (3.0)	516 (4.6)	88 (3.6)
Canada	512 (1.9)	76 (1.2)	502 (2.5)	74 (1.5)	521 (2.0)	77 (1.3)
Chile	441 (2.7)	75 (1.6)	437 (3.4)	73 (1.9)	445 (3.1)	76 (2.2)
Chinese Taipei	599 (1.9)	66 (1.3)	597 (2.4)	63 (1.7)	601 (2.3)	69 (1.7)
Croatia	509 (2.2)	67 (1.8)	504 (2.6)	65 (1.9)	515 (2.7)	69 (2.4)
Cyprus	532 (2.9)	79 (1.5)	523 (3.0)	76 (1.8)	542 (3.5)	80 (2.1)
Czech Republic	533 (2.5)	74 (1.8)	527 (2.7)	73 (1.9)	538 (3.1)	75 (2.2)
Denmark	525 (1.9)	73 (1.1)	521 (2.2)	70 (1.7)	528 (2.6)	76 (1.4)
England	556 (3.0)	86 (2.0)	552 (4.0)	83 (2.6)	560 (3.0)	88 (2.4)
Finland	532 (2.3)	76 (1.4)	531 (2.9)	75 (1.5)	533 (2.8)	78 (2.0)
France	485 (3.0)	80 (1.4)	478 (3.3)	78 (2.0)	491 (3.5)	81 (1.8)
Georgia	482 (3.7)	81 (1.7)	478 (3.9)	80 (1.9)	486 (4.1)	81 (2.1)
Germany	521 (2.3)	70 (1.4)	516 (2.8)	68 (1.6)	526 (2.4)	71 (1.7)
Hong Kong SAR	602 (3.3)	69 (1.5)	599 (3.5)	67 (1.9)	604 (3.9)	71 (2.3)
Hungary	523 (2.6)	78 (1.4)	518 (3.0)	76 (1.9)	529 (3.1)	79 (1.8)
Iran, Islamic Rep. of	443 (3.9)	95 (2.3)	439 (6.4)	93 (3.4)	447 (5.3)	97 (2.5)
Ireland	548 (2.5)	76 (1.3)	545 (3.2)	75 (1.7)	552 (2.9)	77 (1.7)
Italy	515 (2.4)	66 (1.0)	509 (2.7)	64 (1.3)	521 (3.2)	68 (1.3)
Japan	593 (1.8)	70 (1.0)	593 (2.2)	67 (1.3)	593 (1.9)	73 (1.3)
Kazakhstan	512 (2.5)	68 (1.4)	512 (3.0)	67 (1.8)	512 (2.6)	68 (1.5)
Korea, Rep. of	600 (2.2)	71 (1.2)	597 (2.3)	68 (1.7)	602 (2.8)	73 (1.7)
Kosovo	444 (3.0)	80 (1.5)	442 (3.1)	79 (1.7)	447 (3.7)	82 (2.0)
Kuwait	383 (4.7)	111 (2.4)	387 (6.0)	106 (2.7)	380 (6.9)	116 (3.5)
Latvia	546 (2.6)	68 (1.8)	544 (2.9)	67 (1.7)	548 (3.0)	69 (2.3)
Lithuania	542 (2.8)	76 (1.4)	540 (2.9)	74 (2.0)	544 (3.7)	77 (2.1)
Malta	509 (1.4)	76 (0.9)	505 (2.1)	74 (1.5)	513 (1.9)	79 (1.3)
Montenegro	453 (2.0)	85 (1.5)	450 (2.6)	84 (1.7)	455 (2.4)	87 (1.9)
Morocco	383 (4.3)	102 (4.0)	385 (4.8)	101 (4.2)	382 (4.3)	103 (4.2)
Netherlands	538 (2.2)	62 (1.1)	533 (2.2)	60 (1.4)	542 (3.0)	63 (1.6)
New Zealand	487 (2.6)	90 (1.3)	484 (3.7)	87 (1.7)	490 (3.3)	93 (1.8)
North Macedonia	472 (5.3)	98 (2.7)	472 (5.9)	100 (3.4)	472 (5.4)	96 (2.9)
Northern Ireland	566 (2.7)	88 (2.0)	564 (3.2)	86 (2.5)	568 (3.7)	89 (2.6)
Norway (5)	543 (2.2)	74 (1.4)	540 (2.7)	73 (2.1)	545 (2.9)	75 (1.8)
Oman	431 (3.7)	102 (2.4)	438 (3.6)	97 (2.7)	424 (4.4)	107 (2.4)
Pakistan	328 (12.0)	105 (2.6)	338 (16.4)	102 (3.6)	319 (11.8)	105 (4.4)
Philippines	297 (6.4)	110 (2.3)	315 (6.6)	106 (2.3)	280 (6.4)	111 (2.7)
Poland	520 (2.7)	77 (1.5)	516 (3.0)	74 (1.9)	524 (3.0)	80 (1.8)
Portugal	525 (2.6)	76 (1.3)	516 (2.9)	74 (1.4)	533 (2.9)	76 (1.9)
Qatar	449 (3.4)	92 (2.0)	450 (5.1)	87 (2.2)	449 (3.2)	96 (2.9)
Russian Federation	567 (3.3)	68 (1.6)	563 (3.6)	67 (1.9)	571 (3.5)	69 (1.8)
Saudi Arabia	398 (3.6)	101 (2.0)	412 (4.9)	91 (1.9)	385 (5.8)	108 (3.0)
Serbia	508 (3.2)	84 (2.2)	509 (3.4)	79 (2.2)	507 (4.0)	89 (2.9)
Singapore	625 (3.9)	79 (2.3)	621 (4.0)	76 (2.0)	629 (4.2)	81 (2.8)
Slovak Republic	510 (3.5)	77 (2.3)	503 (3.5)	74 (2.6)	516 (4.2)	79 (2.7)
South Africa (5)	374 (3.6)	100 (1.8)	384 (4.0)	99 (2.2)	364 (3.7)	100 (2.3)
Spain	502 (2.1)	73 (1.6)	495 (2.5)	70 (1.8)	509 (2.6)	75 (2.0)
Sweden	521 (2.8)	73 (1.5)	518 (3.2)	72 (1.7)	525 (3.1)	74 (2.1)
Turkey (5)	523 (4.4)	100 (2.3)	521 (4.5)	95 (2.5)	525 (5.6)	104 (2.8)
United Arab Emirates	481 (1.7)	99 (0.9)	477 (2.5)	95 (1.1)	486 (2.3)	101 (1.3)
United States	535 (2.5)	85 (1.3)	529 (3.0)	83 (1.8)	540 (2.9)	86 (1.4)
Benchmarking Participants						
Ontario, Canada	512 (3.3)	78 (1.9)	502 (4.9)	76 (2.4)	521 (3.2)	79 (2.1)
Quebec, Canada	532 (2.3)	67 (1.3)	523 (3.0)	65 (1.8)	541 (2.4)	67 (1.8)
Moscow City, Russian Fed.	593 (2.2)	62 (1.3)	588 (2.5)	61 (1.6)	597 (2.5)	63 (1.6)
Madrid, Spain	518 (2.2)	66 (1.3)	510 (2.6)	65 (1.8)	526 (2.4)	67 (1.5)
Abu Dhabi, UAE	441 (2.2)	98 (1.2)	438 (2.8)	96 (1.6)	443 (3.2)	100 (1.7)
Dubai, UAE	544 (1.6)	82 (1.6)	540 (3.2)	80 (2.4)	548 (2.3)	85 (1.6)

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

Appendix E.2: Average Science Achievement and Standard Deviations by Gender

Country	Overall		Girls		Boys	
	Mean	Standard Deviation	Mean	Standard Deviation	Mean	Standard Deviation
Albania	489 (3.5)	85 (2.4)	494 (3.9)	84 (2.5)	485 (3.9)	86 (3.2)
Armenia	466 (3.4)	77 (1.6)	471 (3.5)	75 (1.8)	462 (4.0)	79 (2.1)
Australia	533 (2.4)	79 (1.4)	533 (2.9)	75 (1.6)	532 (2.7)	83 (1.9)
Austria	522 (2.6)	74 (1.4)	519 (3.1)	72 (1.5)	525 (3.0)	76 (1.9)
Azerbaijan	427 (3.3)	97 (2.0)	429 (3.9)	94 (2.5)	425 (3.5)	99 (2.3)
Bahrain	493 (3.4)	92 (2.2)	510 (3.8)	86 (2.2)	476 (5.1)	95 (2.9)
Belgium (Flemish)	501 (2.1)	67 (1.0)	499 (2.3)	66 (1.3)	503 (2.8)	68 (1.4)
Bosnia and Herzegovina	459 (2.9)	79 (1.1)	462 (3.1)	76 (1.4)	455 (3.5)	81 (1.7)
Bulgaria	521 (4.9)	103 (3.5)	525 (5.3)	101 (3.7)	518 (5.4)	105 (4.2)
Canada	523 (1.9)	72 (1.0)	520 (2.1)	71 (1.3)	526 (2.2)	73 (1.3)
Chile	469 (2.6)	75 (1.3)	466 (3.1)	74 (1.5)	472 (3.3)	76 (1.9)
Chinese Taipei	558 (1.8)	65 (1.3)	557 (2.0)	62 (1.9)	559 (2.2)	68 (1.6)
Croatia	524 (2.2)	59 (1.3)	524 (2.6)	57 (1.6)	524 (2.7)	61 (1.9)
Cyprus	511 (3.0)	75 (1.4)	509 (2.8)	73 (1.8)	514 (4.1)	77 (1.8)
Czech Republic	534 (2.6)	69 (1.8)	529 (3.0)	68 (2.1)	538 (3.0)	69 (2.0)
Denmark	522 (2.4)	68 (1.1)	523 (2.7)	66 (1.4)	522 (2.8)	71 (1.4)
England	537 (2.7)	71 (1.8)	537 (3.6)	69 (2.1)	537 (2.7)	74 (2.5)
Finland	555 (2.6)	71 (1.5)	557 (3.5)	69 (1.9)	552 (2.4)	72 (1.7)
France	488 (3.0)	78 (1.3)	489 (3.2)	78 (1.6)	487 (3.4)	78 (1.9)
Georgia	454 (3.9)	84 (2.0)	452 (4.7)	83 (2.6)	457 (4.2)	84 (2.4)
Germany	518 (2.2)	77 (1.6)	516 (2.8)	76 (1.8)	520 (2.4)	78 (1.8)
Hong Kong SAR	531 (3.3)	71 (1.7)	531 (3.1)	69 (2.0)	531 (4.3)	73 (2.1)
Hungary	529 (2.7)	77 (1.5)	526 (3.2)	75 (2.2)	533 (3.1)	78 (2.0)
Iran, Islamic Rep. of	441 (4.1)	98 (2.3)	440 (6.6)	98 (3.6)	442 (5.4)	97 (2.2)
Ireland	528 (3.2)	75 (1.8)	526 (3.8)	74 (2.0)	530 (3.4)	76 (2.0)
Italy	510 (3.0)	65 (1.5)	506 (3.3)	65 (1.7)	514 (3.3)	65 (2.1)
Japan	562 (1.8)	69 (1.6)	565 (2.0)	64 (1.9)	559 (2.1)	73 (1.8)
Kazakhstan	494 (3.1)	76 (2.1)	497 (3.6)	76 (2.2)	491 (3.1)	77 (2.3)
Korea, Rep. of	588 (2.1)	67 (1.6)	583 (2.4)	63 (1.4)	592 (2.5)	70 (2.3)
Kosovo	413 (3.7)	87 (1.8)	420 (4.2)	85 (2.1)	407 (4.0)	88 (2.3)
Kuwait	392 (6.1)	122 (2.9)	413 (6.9)	114 (2.7)	374 (8.7)	127 (4.2)
Latvia	542 (2.4)	63 (1.7)	544 (2.6)	63 (1.8)	540 (3.0)	64 (2.1)
Lithuania	538 (2.5)	73 (1.4)	540 (2.8)	72 (1.9)	536 (3.3)	74 (1.9)
Malta	496 (1.3)	84 (1.2)	493 (2.1)	81 (2.1)	498 (2.4)	86 (1.4)
Montenegro	453 (2.5)	89 (1.3)	457 (2.9)	87 (1.7)	451 (2.8)	91 (1.8)
Morocco	374 (5.8)	121 (3.3)	379 (6.4)	119 (3.9)	370 (5.8)	122 (3.8)
Netherlands	518 (2.9)	65 (1.5)	519 (3.1)	62 (1.8)	518 (3.3)	67 (2.0)
New Zealand	503 (2.3)	82 (1.4)	505 (3.2)	80 (1.7)	500 (2.8)	84 (1.7)
North Macedonia	426 (6.2)	103 (2.9)	433 (6.5)	103 (3.5)	419 (6.7)	102 (3.1)
Northern Ireland	518 (2.3)	71 (1.5)	519 (2.9)	70 (1.7)	518 (2.8)	72 (2.1)
Norway (5)	539 (2.2)	67 (1.4)	541 (2.4)	65 (1.7)	538 (3.1)	68 (2.1)
Oman	435 (4.1)	118 (2.4)	447 (3.8)	110 (2.7)	423 (5.0)	124 (2.6)
Pakistan	290 (13.4)	126 (3.4)	311 (15.4)	119 (4.5)	273 (14.5)	129 (4.9)
Philippines	249 (7.5)	124 (2.8)	261 (7.8)	123 (3.0)	238 (7.8)	124 (3.0)
Poland	531 (2.6)	74 (1.4)	532 (2.8)	71 (2.1)	529 (3.2)	76 (1.7)
Portugal	504 (2.6)	67 (1.0)	501 (3.1)	66 (1.2)	506 (2.7)	67 (1.5)
Qatar	449 (3.9)	104 (2.3)	456 (6.0)	99 (2.9)	443 (3.7)	109 (2.8)
Russian Federation	567 (3.0)	64 (1.6)	567 (3.5)	63 (1.8)	568 (3.3)	64 (1.8)
Saudi Arabia	402 (4.1)	112 (2.5)	434 (4.8)	97 (2.3)	373 (6.5)	116 (3.1)
Serbia	517 (3.5)	81 (2.7)	521 (3.5)	78 (2.6)	513 (4.3)	84 (3.7)
Singapore	595 (3.4)	78 (2.1)	591 (3.6)	75 (2.0)	598 (3.8)	80 (2.6)
Slovak Republic	521 (3.7)	81 (3.3)	518 (3.8)	79 (3.4)	523 (4.4)	82 (4.0)
South Africa (5)	324 (4.9)	133 (2.5)	335 (5.4)	132 (3.1)	314 (5.2)	133 (3.0)
Spain	511 (2.0)	67 (1.3)	511 (2.4)	65 (1.8)	512 (2.5)	69 (1.9)
Sweden	537 (3.3)	74 (1.9)	538 (3.6)	72 (1.8)	536 (3.8)	75 (2.5)
Turkey (5)	526 (4.2)	91 (2.6)	524 (4.4)	87 (3.0)	529 (5.2)	94 (3.0)
United Arab Emirates	473 (2.1)	113 (1.0)	475 (3.1)	109 (1.4)	471 (2.6)	117 (1.4)
United States	539 (2.7)	84 (1.5)	536 (3.0)	83 (1.7)	541 (3.2)	86 (1.8)
Benchmarking Participants						
Ontario, Canada	524 (3.2)	74 (1.7)	522 (4.0)	73 (2.3)	526 (3.3)	75 (2.0)
Quebec, Canada	522 (2.5)	65 (1.3)	519 (2.7)	64 (1.3)	525 (3.0)	66 (1.9)
Moscow City, Russian Fed.	595 (2.2)	63 (1.7)	595 (2.5)	61 (1.6)	595 (2.6)	64 (2.1)
Madrid, Spain	523 (2.0)	61 (1.2)	521 (2.5)	61 (1.7)	524 (2.3)	61 (1.4)
Abu Dhabi, UAE	418 (2.8)	116 (1.4)	422 (3.8)	114 (1.9)	413 (3.9)	119 (1.8)
Dubai, UAE	545 (1.7)	86 (1.5)	545 (3.6)	84 (2.6)	544 (2.4)	88 (1.6)

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

Appendix E.3: Average Mathematics Achievement and Standard Deviations by Gender

Country	Overall		Girls		Boys	
	Mean	Standard Deviation	Mean	Standard Deviation	Mean	Standard Deviation
Australia	517 (3.8)	90 (2.5)	515 (3.6)	84 (2.0)	519 (5.5)	95 (3.8)
Bahrain	481 (1.7)	95 (1.1)	492 (2.4)	94 (1.6)	471 (2.2)	95 (1.7)
Chile	441 (2.8)	75 (1.9)	436 (3.5)	74 (2.1)	445 (3.8)	77 (2.2)
Chinese Taipei	612 (2.7)	98 (1.5)	614 (3.1)	95 (1.9)	611 (3.2)	101 (1.8)
Cyprus	501 (1.6)	82 (1.8)	503 (2.1)	77 (1.7)	499 (2.3)	85 (2.5)
Egypt	413 (5.2)	95 (2.3)	420 (5.3)	91 (2.6)	404 (7.9)	100 (3.4)
England	515 (5.3)	89 (3.4)	514 (5.6)	86 (4.2)	516 (7.2)	93 (4.1)
Finland	509 (2.6)	73 (1.6)	511 (2.6)	70 (1.9)	507 (3.2)	77 (1.9)
France	483 (2.5)	69 (1.5)	478 (2.5)	66 (1.6)	487 (3.1)	71 (2.1)
Georgia	461 (4.3)	88 (3.1)	457 (4.5)	86 (3.4)	465 (5.2)	90 (3.6)
Hong Kong SAR	578 (4.1)	91 (3.5)	582 (4.9)	85 (4.1)	575 (5.4)	95 (3.7)
Hungary	517 (2.9)	89 (2.4)	510 (3.2)	87 (2.5)	524 (3.6)	91 (2.8)
Iran, Islamic Rep. of	446 (3.7)	93 (2.7)	453 (5.0)	87 (3.1)	440 (5.6)	97 (4.0)
Ireland	524 (2.6)	73 (1.7)	524 (2.9)	70 (1.7)	523 (3.4)	76 (2.3)
Israel	519 (4.3)	99 (3.0)	514 (4.3)	95 (2.6)	525 (5.3)	103 (4.1)
Italy	497 (2.7)	71 (1.4)	491 (3.0)	70 (1.6)	504 (3.3)	72 (1.8)
Japan	594 (2.7)	84 (2.1)	593 (2.9)	80 (2.5)	595 (3.2)	89 (2.1)
Jordan	420 (4.3)	87 (2.1)	432 (3.8)	81 (1.9)	409 (6.4)	90 (2.9)
Kazakhstan	488 (3.3)	82 (1.8)	490 (3.9)	80 (1.9)	486 (3.7)	84 (2.4)
Korea, Rep. of	607 (2.8)	97 (1.9)	604 (3.4)	94 (2.3)	609 (3.1)	99 (2.3)
Kuwait	403 (5.0)	88 (2.1)	407 (5.4)	82 (2.7)	398 (7.9)	94 (3.0)
Lebanon	429 (2.9)	72 (1.6)	427 (3.5)	73 (2.2)	432 (3.3)	72 (2.0)
Lithuania	520 (2.9)	82 (1.9)	519 (2.8)	80 (2.0)	521 (3.7)	83 (2.4)
Malaysia	461 (3.2)	91 (1.7)	465 (3.0)	88 (2.0)	456 (4.1)	93 (1.8)
Morocco	388 (2.3)	72 (1.4)	386 (2.5)	72 (1.7)	391 (2.6)	71 (1.6)
New Zealand	482 (3.4)	90 (2.2)	478 (3.6)	85 (2.6)	484 (4.7)	93 (2.5)
Norway (9)	503 (2.4)	78 (1.4)	503 (2.7)	76 (1.5)	503 (3.0)	80 (2.1)
Oman	411 (2.8)	99 (1.6)	432 (3.3)	90 (1.5)	391 (4.0)	103 (2.5)
Portugal	500 (3.2)	74 (2.2)	495 (3.3)	73 (2.1)	505 (3.9)	75 (2.9)
Qatar	443 (4.0)	95 (2.7)	447 (5.0)	91 (3.1)	440 (5.4)	99 (3.2)
Romania	479 (4.3)	98 (2.2)	487 (4.6)	95 (2.3)	471 (4.7)	100 (2.6)
Russian Federation	543 (4.5)	81 (2.4)	541 (4.8)	79 (2.8)	546 (4.9)	83 (2.5)
Saudi Arabia	394 (2.5)	78 (1.2)	403 (3.4)	74 (1.5)	385 (3.4)	80 (1.6)
Singapore	616 (4.0)	89 (2.9)	617 (4.6)	83 (3.3)	614 (4.4)	94 (3.2)
South Africa (9)	389 (2.3)	77 (1.4)	393 (2.4)	77 (1.6)	386 (2.5)	77 (1.4)
Sweden	503 (2.5)	77 (1.5)	504 (3.0)	74 (1.9)	501 (2.9)	79 (1.9)
Turkey	496 (4.3)	109 (2.4)	501 (4.4)	106 (2.8)	490 (5.8)	113 (3.5)
United Arab Emirates	473 (1.9)	103 (1.1)	476 (3.4)	97 (1.9)	471 (3.4)	108 (1.7)
United States	515 (4.8)	99 (2.6)	517 (4.0)	95 (2.4)	514 (6.1)	103 (3.5)
Benchmarking Participants						
Ontario, Canada	530 (4.3)	79 (2.7)	528 (4.4)	76 (2.9)	531 (4.8)	81 (3.4)
Quebec, Canada	543 (3.7)	67 (2.4)	541 (4.3)	66 (2.5)	546 (4.0)	67 (2.8)
Moscow City, Russian Fed.	575 (4.2)	83 (2.0)	566 (4.2)	82 (1.9)	584 (4.8)	84 (2.6)
Gauteng, RSA (9)	421 (3.0)	77 (2.0)	423 (3.1)	76 (2.0)	417 (3.5)	77 (2.4)
Western Cape, RSA (9)	441 (4.4)	89 (3.0)	436 (5.1)	86 (3.6)	447 (5.4)	92 (3.6)
Abu Dhabi, UAE	436 (2.9)	104 (1.7)	441 (5.4)	100 (2.4)	431 (4.4)	107 (2.3)
Dubai, UAE	537 (2.0)	92 (1.9)	532 (4.8)	88 (2.8)	541 (5.9)	96 (3.0)

() 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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Appendix E.4: Average Science Achievement and Standard Deviations by Gender

Country	Overall		Girls		Boys	
	Mean	Standard Deviation	Mean	Standard Deviation	Mean	Standard Deviation
Australia	528 (3.2)	88 (2.0)	529 (3.1)	82 (1.6)	528 (4.6)	94 (3.0)
Bahrain	486 (1.9)	103 (1.7)	512 (2.6)	89 (1.9)	461 (2.8)	109 (2.3)
Chile	462 (2.9)	78 (1.7)	457 (3.6)	76 (2.0)	468 (3.9)	80 (2.2)
Chinese Taipei	574 (1.9)	83 (1.2)	572 (2.4)	80 (1.4)	576 (2.5)	85 (1.7)
Cyprus	484 (1.9)	84 (1.5)	491 (2.4)	78 (1.8)	476 (2.5)	90 (2.0)
Egypt	389 (5.4)	112 (2.4)	402 (6.1)	106 (2.9)	374 (8.2)	117 (3.8)
England	517 (4.8)	92 (3.2)	518 (5.5)	88 (4.1)	515 (6.6)	95 (3.4)
Finland	543 (3.1)	87 (2.0)	552 (3.1)	80 (2.2)	533 (3.9)	92 (2.4)
France	489 (2.7)	77 (1.3)	487 (2.6)	73 (1.7)	490 (3.6)	81 (1.8)
Georgia	447 (3.9)	83 (2.2)	447 (4.4)	80 (2.5)	446 (4.5)	86 (2.9)
Hong Kong SAR	504 (5.2)	95 (3.2)	505 (5.9)	92 (3.6)	503 (6.3)	98 (3.7)
Hungary	530 (2.6)	82 (2.0)	520 (2.9)	81 (2.4)	540 (3.2)	82 (2.1)
Iran, Islamic Rep. of	449 (3.6)	89 (2.2)	459 (4.6)	81 (2.6)	441 (5.4)	94 (3.6)
Ireland	523 (2.9)	83 (1.9)	526 (3.0)	79 (2.0)	521 (3.9)	87 (2.5)
Israel	513 (4.2)	97 (2.7)	512 (4.5)	90 (2.2)	515 (5.0)	103 (4.0)
Italy	500 (2.6)	74 (1.5)	497 (2.8)	72 (1.9)	504 (3.0)	76 (1.8)
Japan	570 (2.1)	72 (1.6)	565 (2.4)	67 (1.7)	575 (2.5)	77 (1.9)
Jordan	452 (4.7)	98 (2.6)	480 (4.0)	85 (2.1)	427 (6.6)	102 (3.4)
Kazakhstan	478 (3.1)	85 (1.8)	483 (3.4)	82 (1.9)	474 (3.6)	87 (2.3)
Korea, Rep. of	561 (2.1)	83 (1.3)	555 (2.9)	79 (1.8)	566 (2.6)	87 (2.0)
Kuwait	444 (5.7)	98 (2.0)	461 (5.7)	87 (2.6)	426 (9.4)	107 (3.0)
Lebanon	377 (4.6)	104 (2.9)	379 (5.3)	105 (3.4)	374 (5.2)	103 (2.9)
Lithuania	534 (3.0)	78 (1.6)	535 (3.0)	75 (1.8)	533 (3.6)	80 (1.9)
Malaysia	460 (3.5)	96 (2.0)	463 (3.5)	93 (2.3)	458 (4.3)	100 (2.1)
Morocco	394 (2.7)	85 (1.7)	395 (2.9)	85 (2.0)	393 (2.9)	86 (1.7)
New Zealand	499 (3.5)	93 (2.2)	497 (3.6)	87 (2.6)	500 (4.9)	97 (2.4)
Norway (9)	495 (3.1)	89 (1.7)	495 (3.5)	84 (1.9)	496 (3.8)	94 (2.1)
Oman	457 (2.9)	105 (2.0)	485 (3.1)	91 (2.0)	431 (4.5)	109 (2.8)
Portugal	519 (2.9)	72 (1.9)	516 (3.2)	71 (2.0)	522 (3.4)	73 (2.7)
Qatar	475 (4.4)	103 (2.2)	488 (5.2)	94 (2.3)	461 (6.0)	109 (2.9)
Romania	470 (4.2)	92 (2.2)	475 (4.3)	88 (2.5)	465 (4.9)	95 (2.6)
Russian Federation	543 (4.2)	75 (2.1)	539 (4.5)	73 (2.6)	546 (4.6)	77 (2.2)
Saudi Arabia	431 (2.6)	89 (1.2)	455 (3.3)	79 (1.5)	408 (3.9)	91 (1.5)
Singapore	608 (3.9)	88 (2.8)	604 (4.5)	82 (3.3)	611 (4.5)	92 (3.0)
South Africa (9)	370 (3.1)	103 (1.5)	376 (3.2)	101 (1.6)	364 (3.6)	104 (1.9)
Sweden	521 (3.2)	95 (2.1)	527 (3.7)	90 (2.7)	516 (3.8)	100 (2.4)
Turkey	515 (3.7)	98 (2.2)	520 (3.8)	94 (2.3)	510 (5.1)	102 (3.2)
United Arab Emirates	473 (2.2)	125 (1.3)	486 (3.9)	115 (2.5)	461 (4.0)	133 (1.9)
United States	522 (4.7)	99 (2.7)	525 (3.9)	94 (2.2)	520 (6.1)	103 (3.8)
Benchmarking Participants						
Ontario, Canada	522 (3.0)	79 (1.8)	520 (3.4)	75 (1.9)	523 (3.5)	82 (2.8)
Quebec, Canada	537 (3.6)	69 (2.2)	537 (4.1)	69 (2.4)	536 (4.0)	70 (2.7)
Moscow City, Russian Fed.	567 (2.9)	69 (1.3)	561 (3.2)	68 (1.6)	572 (3.3)	69 (1.6)
Gauteng, RSA (9)	422 (3.9)	98 (2.3)	427 (4.1)	96 (2.4)	416 (4.3)	101 (2.6)
Western Cape, RSA (9)	439 (5.1)	111 (3.4)	434 (6.1)	107 (4.1)	445 (6.2)	115 (4.0)
Abu Dhabi, UAE	420 (3.6)	135 (2.2)	436 (6.9)	127 (3.5)	406 (5.8)	140 (2.6)
Dubai, UAE	548 (2.0)	102 (2.0)	551 (5.5)	95 (2.9)	544 (6.6)	108 (3.5)

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

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