

**Exhibit 5.16: Early Preparation for School**

Students' Results based on Parents' Reports

Country	Attended Preprimary Education Program for 3 Years or More				Attended Preprimary Education Program for 2 Years				Attended Preprimary Education Program for 1 Year or Less Including Did Not Attend			
	Often Engaged in Early Literacy and Numeracy Activities		Sometimes or Never Engaged in Early Literacy and Numeracy Activities		Often Engaged in Early Literacy and Numeracy Activities		Sometimes or Never Engaged in Early Literacy and Numeracy Activities		Often Engaged in Early Literacy and Numeracy Activities		Sometimes or Never Engaged in Early Literacy and Numeracy Activities	
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement
Hungary	53 (0.9)	532 (3.0)	43 (0.9)	521 (3.5)	2 (0.2)	~ ~	1 (0.2)	~ ~	1 (0.2)	~ ~	1 (0.2)	~ ~
Korea, Rep. of	45 (1.0)	614 (2.6)	47 (1.1)	590 (2.6)	3 (0.3)	608 (8.6)	3 (0.3)	586 (8.1)	1 (0.1)	~ ~	2 (0.2)	~ ~
Slovak Republic	44 (1.5)	528 (2.8)	33 (1.0)	517 (3.3)	5 (0.4)	513 (7.8)	6 (0.6)	489 (9.5)	5 (0.5)	461 (9.5)	7 (1.0)	444 (11.1)
Czech Republic	43 (0.9)	548 (3.2)	41 (1.1)	538 (2.6)	5 (0.4)	539 (6.5)	5 (0.5)	534 (6.3)	3 (0.3)	525 (9.0)	2 (0.3)	~ ~
Latvia	41 (1.1)	556 (2.8)	43 (0.9)	547 (2.9)	4 (0.3)	547 (7.8)	5 (0.4)	517 (7.1)	3 (0.3)	539 (8.3)	4 (0.4)	520 (7.3)
Poland	41 (1.0)	533 (3.2)	28 (0.8)	528 (3.3)	9 (0.6)	512 (5.3)	7 (0.5)	507 (5.2)	8 (0.7)	503 (6.8)	7 (0.7)	494 (5.6)
Italy	41 (1.1)	526 (3.2)	48 (1.1)	513 (2.5)	3 (0.4)	505 (7.4)	5 (0.5)	495 (6.9)	1 (0.2)	~ ~	2 (0.3)	~ ~
Albania	41 (1.6)	518 (4.1)	20 (1.4)	490 (4.8)	9 (0.7)	498 (4.9)	9 (0.8)	481 (9.0)	8 (0.8)	488 (8.1)	12 (1.0)	463 (8.3)
France	40 (1.1)	505 (3.5)	48 (0.8)	482 (3.4)	2 (0.3)	~ ~	3 (0.3)	459 (11.3)	3 (0.3)	488 (11.1)	4 (0.5)	448 (8.0)
Russian Federation	38 (1.2)	577 (3.8)	16 (0.8)	564 (5.0)	7 (0.6)	569 (4.3)	3 (0.3)	573 (9.2)	21 (1.1)	563 (3.8)	14 (0.9)	557 (4.9)
Croatia	36 (1.4)	527 (2.6)	24 (1.0)	510 (3.3)	5 (0.5)	509 (6.7)	4 (0.6)	490 (10.4)	15 (1.1)	508 (4.7)	16 (1.4)	484 (4.2)
Serbia	36 (1.0)	537 (3.0)	19 (0.9)	515 (4.2)	7 (0.8)	519 (8.9)	5 (0.7)	469 (9.8)	18 (1.2)	498 (5.0)	15 (1.1)	466 (6.6)
Denmark	36 (1.3)	550 (3.2)	60 (1.3)	535 (3.0)	1 (0.2)	~ ~	2 (0.4)	~ ~	1 (0.2)	~ ~	1 (0.2)	~ ~
Lithuania	35 (1.0)	557 (3.3)	39 (1.0)	544 (3.7)	4 (0.5)	535 (9.1)	4 (0.4)	527 (8.2)	7 (0.5)	522 (7.7)	10 (0.8)	510 (4.7)
Norway (5)	35 (1.0)	563 (3.7)	59 (1.1)	547 (2.8)	1 (0.2)	~ ~	2 (0.4)	~ ~	1 (0.2)	~ ~	2 (0.4)	~ ~
Georgia	34 (1.2)	484 (4.6)	37 (1.1)	488 (4.4)	7 (0.5)	479 (6.2)	9 (0.6)	478 (6.5)	5 (0.6)	482 (9.6)	8 (0.8)	475 (7.1)
Ireland	34 (0.8)	576 (2.7)	22 (0.8)	550 (3.8)	14 (0.7)	546 (5.0)	11 (0.8)	530 (5.7)	10 (0.6)	542 (4.4)	9 (0.5)	518 (5.4)
Portugal	33 (0.8)	546 (3.0)	49 (0.9)	525 (2.7)	4 (0.4)	533 (8.7)	6 (0.5)	508 (6.3)	3 (0.3)	512 (9.5)	5 (0.4)	481 (6.1)
Bulgaria	33 (1.4)	548 (2.9)	42 (1.7)	519 (3.7)	3 (0.3)	528 (8.1)	10 (1.6)	465 (11.7)	3 (0.3)	531 (11.0)	10 (1.2)	452 (14.9)
Austria	32 (1.1)	553 (3.1)	48 (1.1)	541 (2.5)	5 (0.5)	547 (7.1)	8 (0.8)	531 (5.9)	2 (0.3)	~ ~	4 (0.4)	506 (6.5)
Spain	32 (0.8)	528 (3.0)	36 (0.7)	510 (3.1)	5 (0.5)	505 (5.8)	8 (0.5)	494 (6.5)	7 (0.4)	488 (6.6)	12 (0.6)	471 (5.3)
Montenegro	31 (0.9)	473 (3.1)	17 (0.6)	464 (3.8)	8 (0.5)	462 (4.7)	6 (0.4)	435 (7.1)	21 (0.7)	453 (3.3)	17 (0.6)	423 (4.0)
Cyprus	30 (0.9)	556 (3.3)	25 (0.7)	530 (4.1)	11 (0.6)	540 (4.3)	12 (0.5)	520 (5.1)	8 (0.5)	532 (5.6)	13 (0.6)	513 (5.2)
Singapore	30 (0.8)	645 (4.2)	53 (0.7)	627 (3.7)	3 (0.2)	612 (8.3)	7 (0.3)	597 (5.7)	1 (0.1)	~ ~	5 (0.4)	586 (7.1)
Kazakhstan	30 (1.4)	524 (3.6)	19 (1.1)	513 (3.5)	9 (0.6)	515 (4.7)	7 (0.6)	498 (5.7)	16 (0.8)	515 (4.4)	18 (1.3)	496 (4.0)
Germany	28 (1.4)	546 (3.8)	37 (1.1)	535 (3.1)	4 (0.4)	530 (8.8)	5 (0.5)	509 (8.2)	9 (0.6)	535 (5.4)	18 (0.9)	516 (4.1)
Canada	27 (1.1)	538 (2.5)	18 (0.7)	526 (3.4)	15 (0.7)	527 (3.3)	10 (0.5)	507 (3.8)	15 (0.9)	517 (6.4)	15 (0.8)	509 (6.1)
Sweden	26 (1.0)	537 (3.6)	64 (1.1)	530 (3.1)	1 (0.2)	~ ~	2 (0.4)	~ ~	2 (0.3)	~ ~	5 (0.6)	483 (7.8)
Belgium (Flemish)	25 (0.8)	550 (2.5)	65 (0.9)	536 (2.1)	2 (0.2)	~ ~	4 (0.3)	514 (6.4)	1 (0.2)	~ ~	4 (0.4)	486 (5.3)
Armenia	24 (1.1)	508 (3.4)	26 (1.2)	498 (3.7)	8 (0.5)	498 (4.6)	11 (0.7)	487 (5.4)	13 (0.9)	501 (3.9)	17 (1.3)	492 (4.0)
Finland	23 (0.7)	547 (3.8)	51 (1.1)	530 (2.8)	3 (0.3)	557 (8.1)	7 (0.5)	531 (5.7)	5 (0.5)	548 (6.1)	11 (0.7)	532 (6.6)
North Macedonia	23 (1.3)	511 (5.8)	13 (1.0)	497 (6.7)	6 (0.5)	494 (9.1)	4 (0.4)	489 (11.3)	25 (1.3)	470 (7.3)	30 (1.7)	440 (7.3)
Malta	22 (0.7)	534 (2.8)	13 (0.7)	515 (3.8)	32 (0.9)	524 (2.9)	22 (0.9)	501 (3.6)	5 (0.5)	506 (6.7)	6 (0.5)	485 (7.6)
Chile	20 (0.8)	462 (3.6)	32 (1.0)	437 (3.5)	12 (0.7)	461 (4.8)	19 (0.9)	433 (4.4)	6 (0.5)	452 (6.9)	9 (0.7)	415 (5.0)
Bahrain	19 (0.7)	503 (4.0)	20 (0.8)	480 (4.2)	14 (0.6)	489 (4.7)	18 (0.9)	479 (4.2)	9 (0.7)	479 (6.2)	19 (0.9)	463 (3.7)
South Africa (5)	16 (0.7)	422 (7.3)	35 (0.9)	375 (4.8)	5 (0.3)	415 (7.8)	12 (0.7)	370 (4.8)	8 (0.5)	384 (6.9)	24 (0.9)	356 (3.9)
Hong Kong SAR	15 (1.2)	627 (5.7)	55 (1.3)	603 (4.1)	2 (0.3)	~ ~	4 (0.5)	598 (8.8)	4 (0.5)	608 (6.4)	20 (0.7)	594 (4.6)
Chinese Taipei	14 (0.6)	622 (3.4)	45 (1.0)	597 (2.2)	9 (0.5)	616 (5.2)	27 (0.8)	589 (3.0)	2 (0.2)	~ ~	4 (0.4)	581 (7.8)
Bosnia and Herzegovina	13 (0.9)	475 (4.5)	10 (0.7)	470 (4.3)	4 (0.4)	471 (5.7)	3 (0.3)	454 (6.6)	36 (1.0)	457 (2.7)	33 (1.1)	436 (3.4)
Kuwait	12 (0.7)	407 (7.4)	18 (0.7)	388 (5.3)	15 (0.8)	402 (7.5)	29 (0.8)	375 (6.2)	8 (0.5)	407 (9.3)	20 (1.2)	376 (8.0)
Philippines	10 (0.7)	343 (8.6)	23 (1.3)	288 (8.6)	9 (0.7)	337 (9.3)	20 (1.4)	284 (9.0)	10 (0.8)	310 (10.3)	28 (1.4)	287 (6.5)
Qatar	10 (0.7)	481 (6.4)	14 (0.6)	457 (5.8)	13 (0.7)	474 (5.9)	25 (1.0)	452 (5.1)	12 (0.7)	471 (6.1)	26 (1.0)	438 (6.0)
Azerbaijan	8 (0.6)	540 (5.5)	12 (0.8)	529 (4.8)	5 (0.4)	547 (5.7)	8 (0.6)	534 (5.4)	17 (1.0)	533 (4.6)	50 (1.5)	514 (3.4)
Kosovo	8 (0.9)	478 (7.2)	4 (0.5)	448 (8.0)	4 (0.4)	471 (8.9)	3 (0.4)	455 (9.3)	39 (1.2)	449 (3.4)	43 (1.4)	438 (3.8)
Morocco	7 (0.5)	436 (10.6)	25 (0.8)	407 (6.0)	4 (0.4)	428 (10.0)	20 (1.0)	384 (6.5)	2 (0.3)	~ ~	42 (1.5)	362 (5.6)
Oman	6 (0.4)	472 (7.4)	11 (0.5)	436 (5.9)	11 (0.7)	469 (11.0)	25 (0.7)	439 (4.0)	10 (0.5)	447 (5.8)	37 (1.0)	410 (5.1)
Iran, Islamic Rep. of	6 (0.5)	480 (10.2)	11 (0.8)	476 (7.3)	5 (0.4)	470 (11.1)	13 (0.8)	454 (5.5)	12 (0.7)	449 (5.1)	53 (1.4)	431 (4.5)
Saudi Arabia	5 (0.4)	443 (7.8)	8 (0.5)	412 (9.6)	7 (0.6)	430 (6.4)	11 (0.6)	412 (5.4)	17 (0.8)	406 (6.4)	53 (1.2)	391 (4.0)
Pakistan	4 (1.0)	356 (22.8)	20 (2.8)	310 (11.5)	1 (0.5)	~ ~	3 (0.6)	312 (25.1)	6 (1.0)	359 (17.4)	66 (4.0)	337 (17.3)
Turkey (5)	4 (0.4)	594 (8.6)	5 (0.6)	563 (11.3)	6 (0.6)	584 (7.3)	10 (0.6)	560 (5.8)	18 (1.2)	555 (5.1)	58 (1.7)	495 (5.2)
Australia	--	--	--	--	--	--	--	--	--	--	--	--
England	--	--	--	--	--	--	--	--	--	--	--	--
Japan	--	--	--	--	--	--	--	--	--	--	--	--
Netherlands	--	--	--	--	--	--	--	--	--	--	--	--
Northern Ireland	--	--	--	--	--	--	--	--	--	--	--	--
United States	--	--	--	--	--	--	--	--	--	--	--	--
New Zealand	35 (1.3)	516 (4.1)	22 (1.2)	502 (5.6)	21 (1.1)	527 (6.5)	12 (0.8)	498 (7.2)	5 (0.5)	515 (13.5)	5 (0.9)	489 (12.9)
United Arab Emirates	10 (0.3)	530 (3.7)	9 (0.3)	502 (4.4)	20 (0.4)	510 (2.7)	19 (0.5)	490 (3.0)	20 (0.5)	511 (3.6)	23 (0.5)	490 (3.7)
<b>International Average</b>	<b>26 (0.1)</b>	<b>520 (0.8)</b>	<b>30 (0.1)</b>	<b>501 (0.7)</b>	<b>7 (0.1)</b>	<b>508 (1.1)</b>	<b>9 (0.1)</b>	<b>485 (1.1)</b>	<b>9 (0.1)</b>	<b>488 (1.2)</b>	<b>18 (0.1)</b>	<b>469 (1.0)</b>
<b>Benchmarking Participants</b>												
Moscow City, Russian Fed.	42 (1.2)	598 (2.5)	13 (0.7)	595 (3.7)	10 (0.5)	597 (3.6)	4 (0.4)	583 (5.7)	18 (0.8)	590 (3.6)	12 (0.7)	578 (4.6)
Madrid, Spain	38 (1.4)	534 (2.6)	36 (0.9)	525 (2.7)	5 (0.5)	526 (6.6)	5 (0.5)	508 (6.6)	5 (0.4)	503 (7.8)	10 (0.8)	483 (5.8)
Quebec, Canada	33 (1.4)	550 (3.3)	32 (1.1)	536 (4.3)	7 (0.7)	540 (7.0)	7 (0.6)	522 (6.8)	9 (0.7)	536 (7.0)	12 (0.8)	521 (5.0)
Ontario, Canada	26 (1.8)	540 (4.3)	12 (1.1)	524 (6.3)	18 (1.3)	529 (5.0)	11 (0.8)	510 (5.8)	17 (1.8)	518 (10.9)	15 (1.6)	516 (10.8)
Dubai, UAE	13 (0.6)	575 (3.6)	10 (0.5)	561 (4.8)	20 (0.7)	565 (3.3)	17 (0.8)	554 (4.8)	20 (0.7)	561 (4.2)	21 (1.0)	544 (3.9)
Abu Dhabi, UAE	--	--	--	--	--	--	--	--	--	--	--	--

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

A dash (-) indicates comparable data not available. A tilde (~) indicates insufficient data to report achievement.

An "r" indicates data are available for at least 70% but less than 85% of the students. An "s" indicates data are available for at least 50% but less than 70% of the students.

An "x" indicates data are available for at least 40% but less than 50% of the students—interpret with caution. A "y" indicates data are available for less than 40% of the students.

### Exhibit 5.17: Early Preparation for School

Students' Results based on Parents' Reports

Country	Attended Preprimary Education Program for 3 Years or More				Attended Preprimary Education Program for 2 Years				Attended Preprimary Education Program for 1 Year or Less Including Did Not Attend			
	Often Engaged in Early Literacy and Numeracy Activities		Sometimes or Never Engaged in Early Literacy and Numeracy Activities		Often Engaged in Early Literacy and Numeracy Activities		Sometimes or Never Engaged in Early Literacy and Numeracy Activities		Often Engaged in Early Literacy and Numeracy Activities		Sometimes or Never Engaged in Early Literacy and Numeracy Activities	
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement
Hungary	53 (0.9)	537 (2.8)	43 (0.9)	527 (3.6)	2 (0.2)	~ ~	1 (0.2)	~ ~	1 (0.2)	~ ~	1 (0.2)	~ ~
Korea, Rep. of	45 (1.0)	599 (2.8)	47 (1.1)	579 (2.7)	3 (0.3)	606 (7.9)	3 (0.3)	589 (7.5)	1 (0.1)	~ ~	2 (0.2)	~ ~
Slovak Republic	44 (1.5)	541 (3.0)	33 (1.0)	531 (3.0)	5 (0.4)	522 (7.5)	6 (0.6)	487 (10.2)	5 (0.5)	470 (10.4)	7 (1.0)	443 (12.4)
Czech Republic	43 (0.9)	545 (3.2)	41 (1.1)	539 (2.9)	5 (0.4)	541 (7.2)	5 (0.5)	537 (7.1)	3 (0.3)	530 (9.1)	2 (0.3)	~ ~
Latvia	41 (1.1)	551 (2.7)	43 (0.9)	540 (2.7)	4 (0.3)	548 (7.5)	5 (0.4)	520 (7.4)	3 (0.3)	540 (7.8)	4 (0.4)	521 (5.8)
Poland	41 (1.0)	542 (3.3)	28 (0.8)	536 (2.7)	9 (0.6)	525 (4.7)	7 (0.5)	520 (5.2)	8 (0.7)	516 (6.2)	7 (0.7)	507 (5.1)
Italy	41 (1.1)	522 (3.5)	48 (1.1)	509 (3.1)	3 (0.4)	501 (8.0)	5 (0.5)	488 (7.1)	1 (0.2)	~ ~	2 (0.3)	~ ~
Albania	41 (1.6)	512 (4.7)	20 (1.4)	486 (5.2)	9 (0.7)	497 (5.5)	9 (0.8)	483 (8.4)	8 (0.8)	482 (7.9)	12 (1.0)	457 (8.2)
France	40 (1.1)	508 (3.1)	48 (0.8)	483 (3.5)	2 (0.3)	~ ~	3 (0.3)	468 (11.5)	3 (0.3)	496 (11.5)	4 (0.5)	448 (9.2)
Russian Federation	38 (1.2)	577 (3.3)	16 (0.8)	563 (4.7)	7 (0.6)	571 (5.1)	3 (0.3)	571 (8.7)	21 (1.1)	565 (3.8)	14 (0.9)	556 (4.2)
Croatia	36 (1.4)	539 (3.1)	24 (1.0)	523 (3.5)	5 (0.5)	525 (5.8)	4 (0.6)	503 (9.7)	15 (1.1)	522 (4.2)	16 (1.4)	503 (3.8)
Serbia	36 (1.0)	545 (3.2)	19 (0.9)	520 (4.3)	7 (0.8)	534 (9.6)	5 (0.7)	480 (11.1)	18 (1.2)	510 (5.5)	15 (1.1)	475 (6.5)
Denmark	36 (1.3)	550 (3.5)	60 (1.3)	527 (2.9)	1 (0.2)	~ ~	2 (0.4)	~ ~	1 (0.2)	~ ~	1 (0.2)	~ ~
Lithuania	35 (1.0)	552 (2.8)	39 (1.0)	538 (3.2)	4 (0.5)	535 (8.4)	4 (0.4)	528 (7.8)	7 (0.5)	523 (7.3)	10 (0.8)	508 (5.4)
Norway (5)	35 (1.0)	560 (3.4)	59 (1.1)	543 (2.9)	1 (0.2)	~ ~	2 (0.4)	~ ~	1 (0.2)	~ ~	2 (0.4)	~ ~
Georgia	34 (1.2)	452 (4.5)	37 (1.1)	458 (4.9)	7 (0.5)	452 (6.9)	9 (0.6)	452 (8.2)	5 (0.6)	466 (8.4)	8 (0.8)	459 (9.6)
Ireland	34 (0.8)	553 (3.3)	22 (0.8)	527 (4.9)	14 (0.7)	532 (5.9)	11 (0.8)	513 (5.1)	10 (0.6)	520 (5.3)	9 (0.5)	498 (5.5)
Portugal	33 (0.8)	520 (3.0)	49 (0.9)	502 (3.0)	4 (0.4)	519 (8.0)	6 (0.5)	499 (5.8)	3 (0.3)	502 (7.9)	5 (0.4)	471 (5.8)
Bulgaria	33 (1.4)	564 (3.7)	42 (1.7)	527 (4.7)	3 (0.3)	537 (8.9)	10 (1.6)	461 (12.1)	3 (0.3)	539 (12.8)	10 (1.2)	436 (15.7)
Austria	32 (1.1)	539 (3.6)	48 (1.1)	528 (3.2)	5 (0.5)	534 (7.0)	8 (0.8)	517 (7.0)	2 (0.3)	~ ~	4 (0.4)	457 (7.9)
Spain	32 (0.8)	532 (2.8)	36 (0.7)	519 (2.6)	5 (0.5)	515 (5.2)	8 (0.5)	506 (6.0)	7 (0.4)	507 (6.2)	12 (0.6)	481 (5.4)
Montenegro	31 (0.9)	474 (3.3)	17 (0.6)	460 (4.3)	8 (0.5)	468 (6.4)	6 (0.4)	440 (8.8)	21 (0.7)	457 (3.5)	17 (0.6)	423 (4.8)
Cyprus	30 (0.9)	534 (3.3)	25 (0.7)	509 (4.1)	11 (0.6)	523 (4.4)	12 (0.5)	499 (5.7)	8 (0.5)	513 (5.5)	13 (0.6)	491 (5.1)
Singapore	30 (0.8)	617 (3.4)	53 (0.7)	595 (3.4)	3 (0.2)	586 (7.9)	7 (0.3)	565 (5.5)	1 (0.1)	~ ~	5 (0.4)	550 (6.5)
Kazakhstan	30 (1.4)	512 (4.7)	19 (1.1)	490 (3.9)	9 (0.6)	501 (5.6)	7 (0.6)	477 (5.6)	16 (0.8)	497 (4.5)	18 (1.3)	472 (4.8)
Germany	28 (1.4)	543 (3.4)	37 (1.1)	537 (3.0)	4 (0.4)	534 (10.4)	5 (0.5)	517 (8.5)	9 (0.6)	530 (6.7)	18 (0.9)	512 (4.3)
Canada	27 (1.1)	543 (2.9)	18 (0.7)	526 (3.0)	15 (0.7)	542 (3.1)	10 (0.5)	518 (4.8)	15 (0.9)	536 (4.3)	15 (0.8)	523 (4.9)
Sweden	26 (1.0)	550 (4.2)	64 (1.1)	548 (2.9)	1 (0.2)	~ ~	2 (0.4)	~ ~	2 (0.3)	~ ~	5 (0.6)	484 (8.1)
Belgium (Flemish)	25 (0.8)	519 (2.5)	65 (0.9)	505 (2.4)	2 (0.2)	~ ~	4 (0.3)	486 (6.1)	1 (0.2)	~ ~	4 (0.4)	450 (7.2)
Armenia	24 (1.1)	477 (4.2)	26 (1.2)	465 (4.9)	8 (0.5)	473 (5.5)	11 (0.7)	457 (5.9)	13 (0.9)	470 (5.0)	17 (1.3)	454 (5.0)
Finland	23 (0.7)	566 (3.4)	51 (1.1)	554 (2.9)	3 (0.3)	566 (8.1)	7 (0.5)	559 (5.9)	5 (0.5)	566 (5.5)	11 (0.7)	553 (6.8)
North Macedonia	23 (1.3)	469 (6.2)	13 (1.0)	450 (8.2)	6 (0.5)	449 (9.1)	4 (0.4)	441 (12.5)	25 (1.3)	427 (8.2)	30 (1.7)	390 (8.5)
Malta	22 (0.7)	524 (3.3)	13 (0.7)	506 (4.2)	32 (0.9)	506 (2.8)	22 (0.9)	489 (3.7)	5 (0.5)	499 (7.9)	6 (0.5)	470 (8.8)
Chile	20 (0.8)	492 (3.7)	32 (1.0)	468 (3.0)	12 (0.7)	488 (4.5)	19 (0.9)	458 (4.8)	6 (0.5)	476 (6.4)	9 (0.7)	440 (4.6)
Bahrain	19 (0.7)	530 (4.4)	20 (0.8)	496 (5.1)	14 (0.6)	511 (5.5)	18 (0.9)	490 (5.2)	9 (0.7)	493 (6.4)	19 (0.9)	467 (4.4)
South Africa (5)	16 (0.7)	389 (9.8)	35 (0.9)	325 (6.7)	5 (0.3)	381 (10.2)	12 (0.7)	322 (7.2)	8 (0.5)	339 (9.4)	24 (0.9)	298 (5.5)
Hong Kong SAR	15 (1.2)	557 (7.3)	55 (1.3)	530 (4.0)	2 (0.3)	~ ~	4 (0.5)	539 (7.7)	4 (0.5)	541 (8.1)	20 (0.7)	520 (4.2)
Chinese Taipei	14 (0.6)	577 (3.4)	45 (1.0)	554 (2.5)	9 (0.5)	577 (4.1)	27 (0.8)	551 (2.9)	2 (0.2)	~ ~	4 (0.4)	543 (7.4)
Bosnia and Herzegovina	13 (0.9)	479 (5.0)	10 (0.7)	469 (5.1)	4 (0.4)	483 (6.5)	3 (0.3)	463 (7.5)	36 (1.0)	466 (3.5)	33 (1.1)	442 (3.5)
Kuwait	12 (0.7)	423 (8.7)	18 (0.7)	399 (6.4)	15 (0.8)	425 (8.1)	29 (0.8)	388 (6.8)	8 (0.5)	422 (12.2)	20 (1.2)	385 (10.5)
Philippines	10 (0.7)	307 (11.1)	23 (1.3)	239 (9.9)	9 (0.7)	298 (11.0)	20 (1.4)	234 (9.7)	10 (0.8)	264 (11.8)	28 (1.4)	235 (7.9)
Qatar	10 (0.7)	488 (6.8)	14 (0.6)	455 (6.4)	13 (0.7)	485 (6.9)	25 (1.0)	454 (6.0)	12 (0.7)	476 (7.1)	26 (1.0)	438 (6.2)
Azerbaijan	8 (0.6)	455 (7.4)	12 (0.8)	439 (6.0)	5 (0.4)	466 (6.8)	8 (0.6)	445 (6.1)	17 (1.0)	450 (4.9)	50 (1.5)	426 (3.8)
Kosovo	8 (0.9)	452 (7.7)	4 (0.5)	405 (9.7)	4 (0.4)	449 (10.2)	3 (0.4)	423 (11.4)	39 (1.2)	423 (4.2)	43 (1.4)	402 (4.7)
Morocco	7 (0.5)	434 (11.3)	25 (0.8)	399 (7.8)	4 (0.4)	426 (12.2)	20 (1.0)	380 (8.1)	2 (0.3)	~ ~	42 (1.5)	349 (7.9)
Oman	6 (0.4)	484 (8.3)	11 (0.5)	446 (6.6)	11 (0.7)	486 (11.6)	25 (0.7)	449 (4.6)	10 (0.5)	454 (6.4)	37 (1.0)	406 (4.9)
Iran, Islamic Rep. of	6 (0.5)	479 (10.5)	11 (0.8)	473 (7.7)	5 (0.4)	476 (9.8)	13 (0.8)	458 (5.1)	12 (0.7)	452 (5.2)	53 (1.4)	427 (4.9)
Saudi Arabia	5 (0.4)	446 (9.6)	8 (0.5)	410 (10.1)	7 (0.6)	438 (9.2)	11 (0.6)	423 (5.6)	17 (0.8)	418 (6.8)	53 (1.2)	394 (4.9)
Pakistan	4 (1.0)	348 (31.0)	20 (2.8)	267 (13.5)	1 (0.5)	~ ~	3 (0.6)	300 (27.7)	6 (1.0)	325 (21.6)	66 (4.0)	298 (17.6)
Turkey (5)	4 (0.4)	588 (7.4)	5 (0.6)	560 (9.6)	6 (0.6)	583 (5.7)	10 (0.6)	558 (5.6)	18 (1.2)	560 (4.7)	58 (1.7)	499 (5.5)
Australia	--	--	--	--	--	--	--	--	--	--	--	--
England	--	--	--	--	--	--	--	--	--	--	--	--
Japan	--	--	--	--	--	--	--	--	--	--	--	--
Netherlands	--	--	--	--	--	--	--	--	--	--	--	--
Northern Ireland	--	--	--	--	--	--	--	--	--	--	--	--
United States	--	--	--	--	--	--	--	--	--	--	--	--
New Zealand	35 (1.3)	533 (3.9)	22 (1.2)	512 (5.1)	21 (1.1)	540 (6.5)	12 (0.8)	516 (6.6)	5 (0.5)	524 (10.2)	5 (0.9)	502 (10.5)
United Arab Emirates	10 (0.3)	527 (3.6)	9 (0.3)	494 (5.1)	20 (0.4)	511 (3.6)	19 (0.5)	482 (3.7)	20 (0.5)	513 (4.3)	23 (0.5)	486 (4.2)
<b>International Average</b>	<b>26 (0.1)</b>	<b>513 (0.9)</b>	<b>30 (0.1)</b>	<b>490 (0.8)</b>	<b>7 (0.1)</b>	<b>504 (1.1)</b>	<b>9 (0.1)</b>	<b>477 (1.2)</b>	<b>9 (0.1)</b>	<b>482 (1.3)</b>	<b>18 (0.1)</b>	<b>455 (1.1)</b>
<b>Benchmarking Participants</b>												
Moscow City, Russian Fed.	42 (1.2)	602 (2.7)	13 (0.7)	597 (3.9)	10 (0.5)	590 (3.8)	4 (0.4)	579 (5.8)	18 (0.8)	594 (3.5)	12 (0.7)	582 (4.0)
Madrid, Spain	38 (1.4)	536 (2.8)	36 (0.9)	529 (2.5)	5 (0.5)	525 (6.1)	5 (0.5)	509 (6.4)	5 (0.4)	513 (7.3)	10 (0.8)	491 (4.7)
Quebec, Canada	33 (1.4)	538 (3.8)	32 (1.1)	523 (4.2)	7 (0.7)	536 (8.4)	7 (0.6)	513 (6.4)	9 (0.7)	533 (6.2)	12 (0.8)	512 (5.1)
Ontario, Canada	26 (1.8)	548 (4.6)	12 (1.1)	534 (5.5)	18 (1.3)	539 (4.5)	11 (0.8)	517 (7.2)	17 (1.8)	535 (7.6)	15 (1.6)	529 (8.4)
Dubai, UAE	13 (0.6)	574 (4.2)	10 (0.5)	555 (6.1)	20 (0.7)	571 (4.6)	17 (0.8)	554 (4.1)	20 (0.7)	569 (3.8)	21 (1.0)	548 (5.3)
Abu Dhabi, UAE	--	--	--	--	--	--	--	--	--	--	--	--

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

A dash (-) indicates comparable data not available. A tilde (~) indicates insufficient data to report achievement.

An "r" indicates data are available for at least 70% but less than 85% of the students. An "s" indicates data are available for at least 50% but less than 70% of the students.

An "x" indicates data are available for at least 40% but less than 50% of the students—interpret with caution. A "y" indicates data are available for less than 40% of the students.