

Exhibit 5.5: Schools Where Students Enter the Primary Grades with Literacy and Numeracy Skills

Reported by Principals

Students were scored according to their principals' responses about the percentage of children in the school who begin first grade with the eleven key skills on the *Schools Where Students Enter the Primary Grades with Literacy and Numeracy Skills* scale. Students who attend **Schools Where More than 75% Enter with Skills** had a score on the scale of at least 11.7, which corresponds to their principals reporting that over 75% of the students have six of the skills and 51-75% of the students have five of the skills, on average. Students who attend **Schools Where Less than 25% Enter with Skills** had a score no higher than 8.6, which corresponds to their principals reporting that less than 25% of the students have six of the skills and 25-50% of the students have five of the skills, on average. All other students attended **Schools Where 25% to 75% Enter with Skills**.

Country	Schools Where More than 75% Enter with Skills		Schools Where 25-75% Enter with Skills		Schools Where Less than 25% Enter with Skills		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Ireland	82 (3.7)	552 (2.3)	18 (3.7)	537 (6.9)	0 (0.0)	~ ~	12.6 (0.08)
Singapore	78 (0.0)	625 (4.1)	21 (0.0)	595 (10.4)	1 (0.0)	~ ~	12.6 (0.00)
Hong Kong SAR	78 (4.2)	619 (3.7)	22 (4.2)	597 (9.2)	0 (0.0)	~ ~	12.5 (0.11)
Korea, Rep. of	69 (3.9)	614 (2.7)	29 (3.8)	597 (3.4)	2 (1.2)	~ ~	12.2 (0.12)
United States	57 (3.0)	551 (3.9)	33 (2.9)	526 (5.4)	10 (1.9)	519 (7.9)	11.5 (0.13)
Spain	56 (3.4)	515 (2.8)	41 (3.4)	495 (4.3)	3 (1.2)	453 (17.2)	11.7 (0.09)
Chinese Taipei	52 (4.5)	602 (2.4)	47 (4.4)	591 (3.0)	1 (0.7)	~ ~	11.8 (0.13)
England	47 (4.8)	563 (6.4)	48 (5.0)	534 (4.8)	4 (2.0)	523 (20.7)	11.4 (0.15)
Qatar	46 (3.4)	446 (6.4)	41 (3.1)	444 (5.8)	13 (2.5)	397 (12.6)	11.2 (0.16)
United Arab Emirates	40 (2.0)	473 (4.2)	44 (2.2)	435 (4.2)	16 (1.2)	422 (6.4)	10.9 (0.07)
Indonesia	34 (3.0)	426 (5.6)	58 (3.5)	385 (5.1)	8 (1.9)	375 (12.1)	10.9 (0.10)
Kazakhstan	33 (3.9)	553 (9.1)	64 (3.9)	542 (5.0)	3 (0.9)	530 (29.2)	11.1 (0.11)
Bahrain	32 (0.2)	454 (4.2)	52 (0.2)	450 (1.7)	15 (0.1)	444 (3.8)	10.7 (0.01)
Japan	31 (4.0)	600 (4.1)	67 (4.0)	590 (2.1)	2 (1.1)	~ ~	10.9 (0.10)
Canada	31 (3.3)	517 (4.8)	61 (3.8)	511 (2.5)	8 (1.6)	485 (11.2)	10.8 (0.09)
Kuwait	24 (3.7)	389 (9.1)	42 (4.6)	352 (8.2)	33 (3.9)	319 (5.2)	9.8 (0.16)
Jordan	21 (3.0)	420 (11.3)	52 (4.1)	389 (4.9)	27 (3.7)	371 (8.5)	9.9 (0.16)
Finland	18 (3.3)	540 (4.3)	80 (3.5)	536 (1.9)	2 (1.5)	~ ~	10.8 (0.10)
Oman	17 (1.9)	419 (7.2)	54 (3.2)	428 (4.3)	29 (2.8)	427 (5.2)	9.7 (0.10)
Sweden	16 (3.4)	534 (6.6)	76 (4.1)	517 (3.6)	8 (2.4)	508 (9.1)	10.5 (0.12)
Saudi Arabia	16 (2.2)	386 (11.3)	56 (3.7)	394 (5.3)	29 (3.2)	362 (8.3)	9.6 (0.10)
Russian Federation	15 (2.1)	577 (5.8)	73 (2.9)	563 (3.0)	12 (2.0)	534 (8.8)	10.2 (0.09)
Georgia	13 (3.2)	460 (15.9)	45 (4.8)	469 (5.9)	42 (4.5)	458 (5.4)	9.3 (0.17)
Chile	10 (2.4)	492 (12.0)	69 (4.3)	460 (3.8)	21 (3.6)	440 (5.8)	9.7 (0.13)
South Africa (5)	10 (2.3)	436 (20.7)	64 (3.6)	369 (4.8)	26 (3.1)	374 (6.5)	9.5 (0.12)
Australia	9 (1.9)	536 (9.8)	41 (3.8)	537 (4.9)	50 (3.9)	498 (5.0)	8.8 (0.14)
Netherlands	9 (3.3)	541 (6.3)	86 (4.1)	535 (2.1)	5 (2.5)	520 (1.9)	10.3 (0.11)
Bulgaria	8 (2.5)	545 (11.2)	68 (4.0)	532 (4.1)	24 (3.5)	496 (16.6)	9.7 (0.12)
Portugal	7 (2.3)	554 (10.0)	56 (4.1)	545 (3.6)	37 (4.2)	535 (4.3)	9.1 (0.13)
Lithuania	7 (1.9)	544 (9.4)	76 (3.7)	537 (3.2)	17 (3.3)	526 (7.9)	9.7 (0.11)
Poland	6 (2.4)	535 (7.5)	71 (4.0)	536 (2.6)	22 (3.6)	532 (4.7)	9.7 (0.14)
Croatia	6 (2.2)	513 (7.7)	84 (3.3)	503 (2.1)	9 (2.5)	488 (6.5)	9.9 (0.09)
Morocco	6 (1.7)	441 (14.5)	38 (2.7)	387 (5.2)	56 (2.5)	365 (5.6)	8.4 (0.11)
Serbia	6 (2.0)	541 (9.7)	79 (3.4)	520 (3.4)	15 (3.1)	499 (15.6)	9.8 (0.10)
New Zealand	6 (1.5)	539 (8.3)	42 (4.0)	507 (4.8)	53 (3.8)	475 (4.4)	8.6 (0.12)
Norway (5)	5 (2.4)	566 (16.3)	65 (4.4)	550 (3.3)	30 (4.6)	542 (5.3)	9.2 (0.15)
France	5 (2.0)	503 (14.7)	92 (2.1)	487 (3.4)	3 (0.5)	470 (12.0)	10.1 (0.08)
Iran, Islamic Rep. of	5 (1.7)	456 (12.6)	25 (3.0)	437 (9.9)	70 (3.4)	428 (3.9)	8.1 (0.14)
Denmark	5 (1.8)	553 (9.5)	79 (3.1)	544 (3.2)	16 (2.9)	529 (6.5)	9.6 (0.11)
Italy	4 (1.8)	519 (8.0)	57 (4.1)	507 (3.7)	38 (4.0)	507 (4.0)	9.0 (0.13)
Cyprus	2 (1.5)	~ ~	53 (4.8)	527 (3.9)	45 (4.9)	518 (4.9)	8.6 (0.13)
Belgium (Flemish)	2 (1.1)	~ ~	69 (3.7)	547 (2.4)	30 (3.5)	548 (5.2)	9.1 (0.11)
Turkey	1 (0.9)	~ ~	35 (3.1)	493 (7.5)	63 (3.0)	475 (3.8)	8.2 (0.10)
Germany	1 (0.9)	~ ~	43 (3.5)	527 (2.7)	55 (3.5)	517 (3.6)	8.5 (0.09)
Slovak Republic	1 (0.6)	~ ~	50 (3.4)	511 (3.4)	49 (3.5)	484 (4.3)	8.6 (0.09)
Czech Republic	0 (0.0)	~ ~	51 (4.3)	533 (2.9)	49 (4.3)	523 (3.5)	8.5 (0.09)
Hungary	0 (0.0)	~ ~	34 (4.2)	551 (5.5)	66 (4.2)	518 (4.9)	7.8 (0.11)
Slovenia	0 (0.0)	~ ~	44 (4.6)	523 (2.9)	56 (4.6)	519 (2.7)	8.3 (0.11)
Northern Ireland	- -	- -	- -	- -	- -	- -	- -
International Avg.	21 (0.4)	516 (1.5)	54 (0.5)	504 (0.7)	24 (0.4)	474 (1.5)	

This TIMSS questionnaire scale was established in 2015 based on the combined response distribution of all countries that participated in TIMSS 2015. To provide a point of reference for country comparisons, the scale centerpoint of 10 was located at the mean of the combined distribution. The units of the scale were chosen so that 2 scale score points corresponded to the standard deviation of the distribution.

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

A dash (-) indicates comparable data are 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.

Exhibit 5.5: Schools Where Students Enter the Primary Grades with Literacy and Numeracy Skills (Continued)

Country	Schools Where More than 75% Enter with Skills		Schools Where 25-75% Enter with Skills		Schools Where Less than 25% Enter with Skills		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Benchmarking Participants							
Dubai, UAE	58 (0.3)	515 (1.8)	28 (0.3)	501 (2.5)	14 (0.1)	498 (3.3)	11.4 (0.01)
Florida, US	42 (9.1)	548 (7.4)	46 (9.7)	553 (9.6)	12 (4.6)	515 (12.9)	10.9 (0.32)
Ontario, Canada	41 (5.2)	524 (4.3)	54 (5.8)	505 (2.9)	5 (2.0)	484 (10.5)	11.2 (0.14)
Abu Dhabi, UAE	27 (3.8)	444 (13.9)	54 (4.4)	407 (8.3)	18 (3.2)	380 (15.4)	10.4 (0.17)
Quebec, Canada	15 (4.1)	538 (11.8)	76 (5.5)	539 (4.2)	9 (3.6)	524 (10.9)	10.3 (0.15)
Buenos Aires, Argentina	15 (4.3)	453 (8.5)	61 (5.2)	448 (4.6)	24 (4.1)	395 (7.0)	9.9 (0.19)
Norway (4)	4 (1.9)	499 (7.9)	67 (4.0)	493 (3.0)	29 (4.5)	494 (6.3)	9.2 (0.14)

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015

