

Exhibit 4.3: Students Speak the Language of the Test at Home

Reported by Students

Country	Always		Almost Always		Sometimes		Never	
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement
Australia	73 (1.3)	516 (3.2)	12 (0.7)	531 (5.3)	14 (1.0)	518 (6.7)	1 (0.2)	~ ~
Bahrain	56 (0.7)	450 (1.6)	12 (0.4)	470 (4.0)	28 (0.6)	457 (2.9)	5 (0.3)	433 (6.4)
Belgium (Flemish)	68 (1.1)	555 (2.2)	10 (0.5)	544 (3.5)	18 (0.9)	519 (3.7)	3 (0.5)	521 (7.8)
Bulgaria	67 (2.3)	535 (4.1)	9 (0.7)	529 (9.7)	18 (1.7)	508 (10.7)	6 (1.0)	466 (14.1)
Canada	58 (1.0)	507 (2.5)	17 (0.5)	533 (2.8)	22 (0.8)	509 (3.9)	3 (0.3)	486 (8.2)
Chile	81 (0.7)	462 (2.5)	9 (0.4)	468 (6.1)	6 (0.4)	458 (5.4)	5 (0.4)	420 (6.5)
Chinese Taipei	43 (1.0)	593 (2.7)	17 (0.6)	616 (3.5)	40 (0.9)	596 (2.6)	1 (0.2)	~ ~
Croatia	80 (0.9)	499 (1.9)	12 (0.6)	523 (4.4)	7 (0.5)	503 (5.8)	1 (0.4)	~ ~
Cyprus	62 (1.4)	524 (2.6)	14 (0.8)	545 (4.8)	21 (0.9)	520 (3.6)	3 (0.4)	496 (8.2)
Czech Republic	77 (0.9)	525 (2.4)	14 (0.8)	548 (3.8)	8 (0.4)	523 (5.3)	1 (0.1)	~ ~
Denmark	70 (1.1)	542 (2.8)	18 (0.8)	547 (4.0)	11 (0.7)	514 (5.7)	1 (0.1)	~ ~
England	72 (1.8)	544 (2.8)	11 (0.7)	572 (6.6)	16 (1.4)	542 (6.5)	2 (0.3)	~ ~
Finland	72 (1.0)	538 (1.9)	17 (0.8)	541 (4.1)	10 (0.7)	514 (6.7)	1 (0.2)	~ ~
France	71 (1.2)	493 (3.0)	12 (0.6)	495 (4.9)	16 (0.8)	466 (4.5)	1 (0.1)	~ ~
Georgia	78 (1.1)	466 (3.6)	9 (0.6)	475 (8.0)	12 (0.8)	465 (5.6)	1 (0.5)	~ ~
Germany	66 (1.2)	532 (1.9)	14 (0.7)	524 (4.6)	18 (1.0)	503 (4.4)	1 (0.2)	~ ~
Hong Kong SAR	58 (1.7)	615 (3.2)	13 (0.8)	618 (4.7)	28 (1.6)	616 (4.5)	1 (0.3)	~ ~
Hungary	84 (0.7)	532 (3.1)	13 (0.7)	528 (5.6)	2 (0.3)	~ ~	0 (0.1)	~ ~
Indonesia	31 (1.8)	391 (5.1)	12 (0.6)	391 (5.4)	43 (1.7)	413 (4.8)	14 (0.9)	390 (7.0)
Iran, Islamic Rep. of	59 (2.0)	450 (3.7)	8 (0.6)	451 (6.6)	17 (1.1)	433 (5.5)	16 (1.5)	363 (9.4)
Ireland	77 (0.9)	553 (2.4)	11 (0.7)	531 (4.4)	10 (0.7)	538 (5.5)	2 (0.3)	~ ~
Italy	72 (1.1)	511 (2.6)	12 (0.8)	508 (4.2)	14 (0.8)	493 (5.3)	2 (0.3)	~ ~
Japan	91 (0.5)	596 (2.0)	7 (0.5)	576 (4.1)	1 (0.2)	~ ~	0 (0.1)	~ ~
Jordan	88 (1.0)	388 (3.2)	5 (0.6)	416 (12.3)	5 (0.5)	444 (7.0)	1 (0.4)	~ ~
Kazakhstan	78 (1.1)	544 (4.7)	9 (0.6)	553 (6.7)	12 (1.0)	548 (7.2)	1 (0.2)	~ ~
Korea, Rep. of	80 (0.7)	606 (2.3)	12 (0.6)	625 (3.5)	8 (0.5)	606 (5.1)	0 (0.0)	~ ~
Kuwait	17 (1.3)	334 (5.7)	11 (0.6)	359 (7.7)	34 (1.4)	376 (6.6)	37 (1.7)	342 (4.9)
Lithuania	77 (0.9)	534 (2.5)	14 (0.7)	556 (4.0)	9 (0.5)	525 (5.1)	0 (0.1)	~ ~
Morocco	35 (1.7)	361 (4.3)	12 (0.6)	380 (5.4)	25 (1.3)	401 (4.9)	29 (1.8)	387 (6.8)
Netherlands	65 (1.9)	532 (1.9)	15 (0.8)	541 (3.3)	17 (1.2)	512 (3.5)	3 (0.7)	531 (8.2)
New Zealand	69 (1.0)	492 (2.6)	15 (0.6)	500 (4.1)	14 (0.8)	481 (5.0)	2 (0.2)	~ ~
Northern Ireland	84 (1.1)	571 (3.1)	8 (0.6)	597 (7.4)	7 (0.9)	553 (6.2)	1 (0.2)	~ ~
Norway (5)	69 (1.5)	554 (2.8)	16 (0.8)	552 (3.8)	14 (1.1)	525 (6.3)	2 (0.2)	~ ~
Oman	50 (1.5)	432 (3.8)	13 (0.6)	427 (4.3)	24 (1.0)	425 (3.9)	13 (1.1)	416 (5.5)
Poland	83 (0.8)	531 (2.2)	14 (0.6)	558 (3.8)	4 (0.3)	538 (7.5)	0 (0.2)	~ ~
Portugal	84 (0.7)	541 (2.2)	7 (0.4)	561 (5.4)	8 (0.5)	529 (6.3)	1 (0.1)	~ ~
Qatar	41 (1.3)	416 (4.7)	12 (0.5)	453 (5.8)	39 (1.1)	466 (3.7)	8 (0.7)	419 (7.2)
Russian Federation	81 (1.5)	564 (3.3)	9 (0.7)	570 (5.1)	8 (1.0)	564 (8.9)	1 (0.3)	~ ~
Saudi Arabia	67 (1.7)	384 (4.4)	12 (1.1)	381 (6.4)	13 (1.0)	405 (6.4)	8 (0.8)	393 (10.0)
Serbia	87 (1.3)	521 (3.1)	8 (0.8)	540 (5.8)	5 (0.7)	475 (20.1)	0 (0.2)	~ ~
Singapore	28 (0.5)	622 (4.0)	20 (0.5)	640 (3.9)	48 (0.6)	609 (4.3)	4 (0.3)	574 (9.7)
Slovak Republic	70 (1.3)	505 (2.5)	15 (0.6)	519 (3.8)	12 (1.0)	465 (6.4)	3 (0.7)	404 (14.6)
Slovenia	72 (1.2)	524 (1.9)	14 (0.6)	532 (3.8)	11 (0.8)	496 (4.3)	3 (0.4)	466 (13.4)
South Africa (5)	20 (1.5)	414 (9.6)	10 (0.4)	401 (7.2)	56 (1.6)	374 (3.3)	14 (0.9)	317 (6.0)
Spain	60 (1.5)	504 (2.5)	14 (0.7)	528 (4.5)	18 (0.7)	505 (4.1)	9 (0.9)	484 (4.7)
Sweden	65 (1.5)	529 (2.5)	19 (0.8)	520 (3.9)	15 (1.1)	480 (5.8)	1 (0.3)	~ ~
Turkey	77 (1.3)	494 (2.7)	8 (0.5)	509 (5.8)	14 (1.0)	460 (8.0)	1 (0.3)	~ ~
United Arab Emirates	39 (0.8)	431 (3.1)	14 (0.5)	480 (3.6)	40 (0.8)	473 (3.2)	6 (0.3)	426 (5.3)
United States	67 (1.1)	543 (2.2)	12 (0.4)	557 (4.5)	19 (0.9)	525 (4.4)	2 (0.2)	~ ~
International Avg.	66 (0.2)	506 (0.5)	12 (0.1)	517 (0.8)	18 (0.1)	497 (0.9)	5 (0.1)	437 (1.9)

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

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

Exhibit 4.3: Students Speak the Language of the Test at Home (Continued)

Country	Always		Almost Always		Sometimes		Never	
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement
Benchmarking Participants								
Buenos Aires, Argentina	78 (0.9)	435 (2.9)	9 (0.5)	456 (4.6)	12 (0.6)	439 (4.8)	1 (0.2)	~ ~
Ontario, Canada	55 (1.4)	506 (2.4)	19 (0.8)	534 (3.1)	24 (1.1)	515 (4.7)	2 (0.3)	~ ~
Quebec, Canada	60 (2.1)	534 (4.3)	18 (0.9)	551 (5.4)	20 (1.8)	529 (5.6)	3 (0.4)	530 (13.5)
Norway (4)	66 (1.4)	500 (2.2)	17 (0.7)	492 (4.0)	15 (0.9)	477 (4.7)	2 (0.3)	~ ~
Abu Dhabi, UAE	43 (1.9)	392 (5.6)	13 (0.7)	436 (7.9)	37 (1.7)	456 (6.7)	7 (0.6)	407 (8.8)
Dubai, UAE	29 (0.6)	503 (2.4)	19 (0.7)	529 (3.5)	46 (0.8)	516 (2.5)	6 (0.4)	468 (7.0)
Florida, US	61 (3.3)	551 (5.6)	11 (0.9)	566 (7.3)	26 (2.7)	529 (5.6)	2 (0.5)	~ ~

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