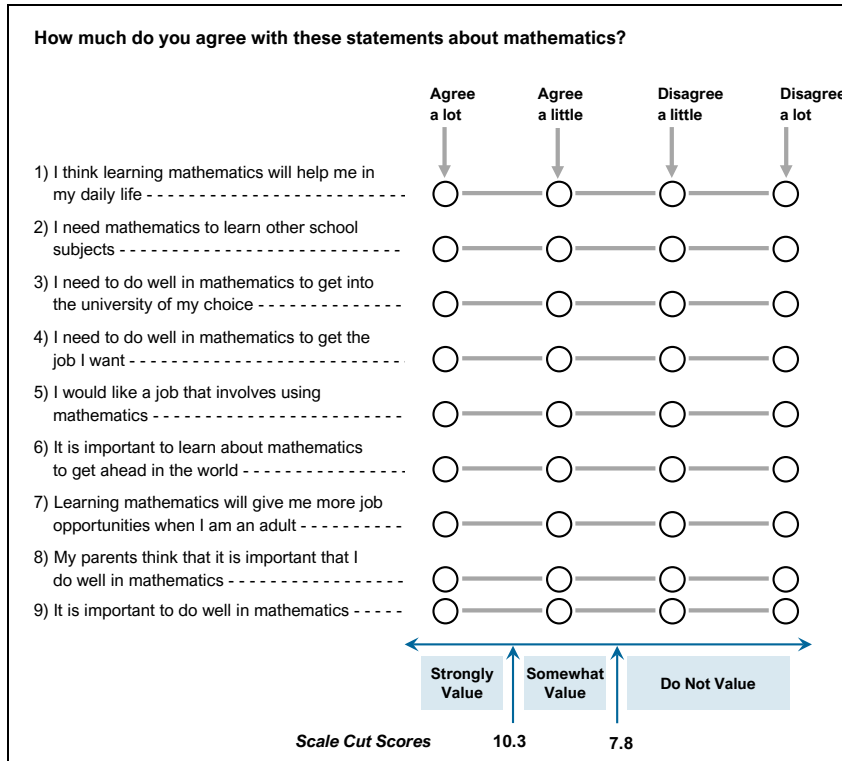


Exhibit 11.13: Students Value Mathematics

Students' Reports

About the Scale

Students were scored according to their responses to nine statements on the *Students Value Mathematics* scale. Cut scores divide the scale into three categories. Students who **Strongly Value Mathematics** had a score at or above the cut score corresponding to “agreeing a lot” with five of the nine statements and “agreeing a little” with the other four, on average. Students who **Do Not Value Mathematics** had a score at or below the cut score corresponding to “disagreeing a little” with five of the nine statements and “agreeing a little” with the other four, on average. All other students **Somewhat Value Mathematics**.



SOURCE: IEA's Trends in International Mathematics and Science Study - TIMSS 2019
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Exhibit 11.14: Students Value Mathematics

Students' Reports

Country	Strongly Value Mathematics		Somewhat Value Mathematics		Do Not Value Mathematics		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
South Africa (9)	68 (0.6)	399 (2.2)	27 (0.6)	377 (2.7)	5 (0.2)	357 (4.1)	10.9 (0.03)
Egypt	63 (1.2)	425 (5.3)	31 (0.9)	403 (5.5)	6 (0.5)	381 (9.3)	10.9 (0.06)
Jordan	62 (1.2)	433 (3.6)	31 (1.0)	411 (5.4)	7 (0.5)	384 (8.8)	10.8 (0.05)
Morocco	60 (0.9)	400 (2.7)	32 (0.7)	374 (2.4)	8 (0.4)	368 (3.8)	10.7 (0.04)
Israel	54 (1.2)	529 (4.9)	37 (1.0)	514 (4.6)	9 (0.5)	501 (6.5)	10.4 (0.05)
Oman	53 (0.9)	432 (3.0)	39 (0.8)	397 (3.5)	8 (0.4)	375 (5.8)	10.3 (0.04)
Iran, Islamic Rep. of	49 (1.2)	457 (4.4)	40 (1.0)	440 (3.9)	11 (0.6)	426 (6.2)	10.2 (0.05)
Turkey	48 (1.2)	520 (4.9)	40 (0.8)	480 (4.7)	12 (0.8)	454 (6.4)	10.1 (0.06)
Georgia	47 (1.3)	474 (4.8)	43 (1.2)	455 (4.8)	10 (0.8)	436 (9.3)	10.1 (0.06)
United Arab Emirates	47 (0.6)	492 (2.7)	41 (0.6)	468 (1.8)	12 (0.3)	431 (3.4)	10.1 (0.03)
Saudi Arabia	46 (1.1)	403 (3.3)	42 (0.8)	391 (2.7)	12 (0.6)	380 (4.5)	10.1 (0.05)
Lebanon	45 (1.3)	447 (3.0)	43 (1.0)	422 (4.0)	12 (0.8)	409 (5.5)	10.0 (0.06)
Kuwait	41 (1.2)	416 (5.8)	43 (0.9)	401 (5.0)	16 (0.7)	384 (5.8)	9.7 (0.05)
Bahrain	40 (0.9)	493 (2.6)	44 (0.6)	479 (2.4)	16 (0.8)	459 (3.2)	9.7 (0.04)
United States	40 (0.8)	532 (5.0)	48 (0.7)	516 (4.7)	12 (0.5)	484 (6.1)	9.8 (0.04)
Qatar	38 (1.1)	456 (5.7)	44 (1.1)	449 (4.5)	18 (1.1)	409 (4.8)	9.6 (0.06)
Australia	38 (0.9)	539 (4.5)	48 (0.8)	514 (3.8)	14 (0.6)	479 (4.8)	9.7 (0.04)
England	38 (1.2)	528 (6.1)	51 (0.9)	515 (5.6)	10 (0.7)	500 (7.3)	9.8 (0.05)
New Zealand	37 (1.0)	494 (4.2)	50 (0.9)	481 (3.6)	14 (0.7)	461 (5.1)	9.6 (0.05)
Cyprus	37 (1.0)	523 (2.8)	46 (0.9)	499 (2.2)	17 (0.7)	467 (3.9)	9.6 (0.04)
Ireland	35 (1.0)	538 (3.5)	49 (0.9)	525 (2.6)	16 (0.7)	496 (4.3)	9.5 (0.04)
Chile	35 (1.0)	446 (3.5)	53 (1.0)	442 (3.1)	12 (0.6)	425 (5.2)	9.7 (0.04)
Romania	35 (1.3)	502 (5.6)	43 (1.0)	472 (4.8)	22 (1.3)	461 (4.9)	9.4 (0.07)
Norway (9)	35 (1.0)	524 (3.4)	51 (0.9)	503 (2.4)	15 (0.7)	467 (4.4)	9.6 (0.05)
Malaysia	34 (1.0)	486 (3.3)	56 (0.9)	453 (3.7)	10 (0.8)	421 (5.6)	9.6 (0.04)
Portugal	34 (1.1)	525 (4.8)	48 (1.3)	493 (3.1)	17 (1.0)	473 (4.0)	9.5 (0.05)
Singapore	34 (0.8)	628 (4.8)	56 (0.8)	614 (4.1)	10 (0.4)	584 (6.3)	9.6 (0.03)
Kazakhstan	31 (1.0)	493 (4.6)	53 (0.9)	487 (3.6)	15 (0.8)	482 (5.1)	9.5 (0.05)
France	27 (0.9)	493 (3.8)	57 (1.0)	485 (2.7)	16 (0.7)	458 (3.8)	9.3 (0.04)
Russian Federation	26 (1.0)	560 (6.1)	53 (0.9)	543 (4.5)	21 (1.0)	526 (5.0)	9.2 (0.05)
Lithuania	26 (1.2)	533 (4.7)	56 (1.1)	520 (3.2)	19 (0.9)	508 (4.3)	9.2 (0.04)
Hungary	25 (0.9)	543 (5.5)	53 (0.9)	516 (3.4)	22 (0.8)	489 (3.8)	9.1 (0.04)
Italy	25 (0.8)	511 (4.0)	54 (0.9)	498 (2.9)	21 (0.8)	482 (3.6)	9.1 (0.04)
Finland	24 (0.9)	535 (3.3)	54 (0.8)	513 (2.5)	22 (0.9)	473 (3.7)	9.0 (0.04)
Sweden	24 (0.9)	515 (4.1)	58 (0.8)	505 (2.7)	18 (0.7)	487 (3.5)	9.2 (0.04)
Hong Kong SAR	18 (1.0)	605 (6.3)	54 (1.0)	586 (4.3)	28 (0.9)	547 (5.2)	8.7 (0.05)
Korea, Rep. of	14 (0.6)	668 (5.0)	56 (0.9)	620 (2.9)	30 (1.1)	554 (3.1)	8.5 (0.04)
Japan	14 (0.7)	629 (5.7)	59 (0.8)	598 (2.7)	27 (0.8)	568 (3.7)	8.6 (0.03)
Chinese Taipei	12 (0.5)	659 (5.8)	48 (0.8)	634 (3.1)	40 (1.0)	573 (3.0)	8.2 (0.04)
International Average	37 (0.2)	507 (0.7)	47 (0.1)	487 (0.6)	16 (0.1)	462 (0.8)	
Benchmarking Participants							
Gauteng, RSA (9)	69 (1.1)	423 (3.0)	27 (0.9)	416 (3.9)	4 (0.4)	423 (7.6)	10.9 (0.04)
Western Cape, RSA (9)	63 (1.0)	444 (4.6)	31 (0.8)	441 (5.2)	5 (0.5)	438 (8.7)	10.7 (0.04)
Ontario, Canada	51 (1.4)	545 (5.4)	42 (1.2)	521 (4.3)	8 (0.6)	487 (6.6)	10.3 (0.05)
Dubai, UAE	47 (1.1)	549 (3.0)	43 (1.0)	531 (2.4)	10 (0.4)	499 (3.8)	10.1 (0.04)
Abu Dhabi, UAE	42 (0.8)	462 (3.6)	44 (0.7)	429 (3.3)	14 (0.6)	394 (4.9)	9.8 (0.05)
Quebec, Canada	37 (1.3)	556 (3.9)	52 (1.1)	541 (3.9)	11 (0.8)	513 (6.6)	9.7 (0.05)
Moscow City, Russian Fed.	25 (0.9)	606 (5.7)	50 (0.9)	575 (4.3)	25 (1.0)	546 (4.4)	9.1 (0.04)

This TIMSS context questionnaire scale was established in 2011 based on the combined response distribution of all countries that participated in TIMSS 2011. 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.

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