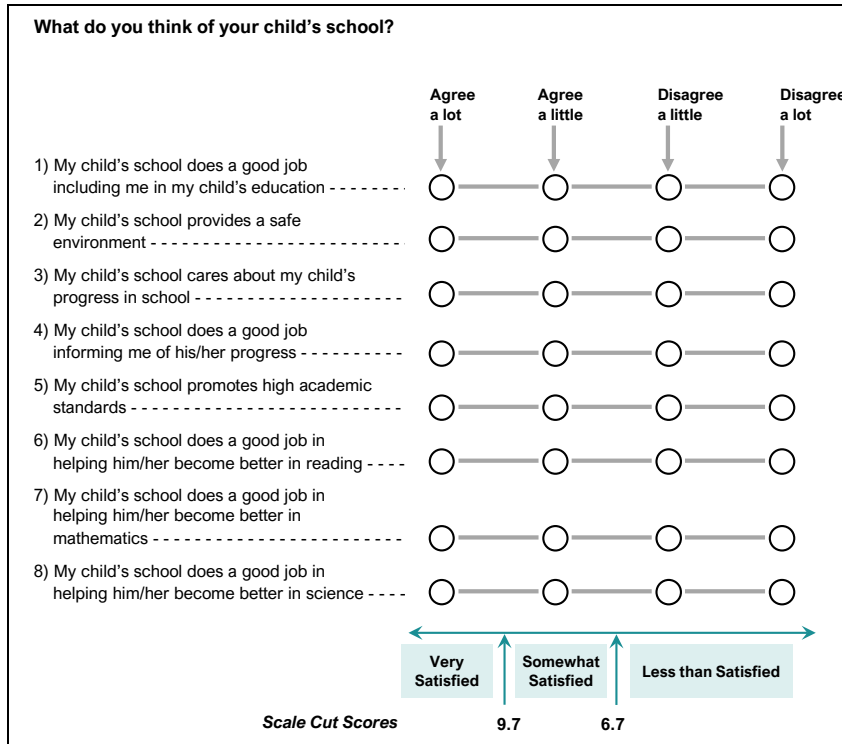


Exhibit 7.6: Parents' Perceptions of Their Child's School

Students' Results based on Parents' Reports

About the Scale

Students were scored according to their parents' responses to eight statements on the *Parents' Perceptions of Their Child's School* scale. Cut scores divide the scale into three categories. Students whose parents are **Very Satisfied** with their child's school had a score at or above the cut score corresponding to their parents "agreeing a lot" with four of the eight statements and "agreeing a little" with the other four, on average. Students whose parents are **Less than Satisfied** had a score at or below the cut score corresponding to their parents "disagreeing a little" with four of the eight statements and "agreeing a little" with the other four, on average. All other students had parents who are **Somewhat Satisfied**.



SOURCE: IEA's Trends in International Mathematics and Science Study - TIMSS 2019
Downloaded from <http://timss2019.org/download>

Exhibit 7.7: Parents' Perceptions of Their Child's School

Students' Results based on Parents' Reports

Country	Very Satisfied		Somewhat Satisfied		Less than Satisfied		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Albania	90 (0.8)	497 (3.4)	9 (0.7)	484 (8.6)	2 (0.4)	--	11.5 (0.05)
Armenia	88 (1.0)	500 (2.6)	11 (0.9)	486 (5.5)	1 (0.1)	--	11.5 (0.05)
Kazakhstan	87 (1.0)	513 (2.6)	12 (0.9)	514 (5.0)	1 (0.2)	--	11.5 (0.05)
Malta r	85 (0.7)	516 (1.7)	14 (0.7)	515 (3.5)	1 (0.2)	--	11.2 (0.03)
Kosovo	84 (0.8)	448 (3.0)	14 (0.6)	440 (5.2)	2 (0.3)	--	11.1 (0.04)
Saudi Arabia	80 (0.9)	404 (3.7)	17 (0.7)	390 (6.1)	3 (0.3)	393 (10.8)	11.0 (0.05)
Northern Ireland s	79 (1.2)	590 (3.9)	19 (1.1)	566 (5.5)	2 (0.3)	--	11.0 (0.06)
Georgia	79 (1.1)	482 (3.8)	19 (1.0)	490 (4.8)	2 (0.2)	--	10.9 (0.05)
North Macedonia	79 (1.1)	473 (5.9)	18 (0.9)	482 (7.7)	3 (0.5)	473 (10.9)	10.8 (0.05)
Azerbaijan	78 (1.1)	524 (2.8)	19 (1.0)	514 (4.3)	3 (0.3)	514 (8.0)	10.9 (0.06)
Bulgaria	78 (1.4)	513 (4.0)	19 (1.1)	529 (7.0)	4 (0.4)	526 (15.3)	10.9 (0.07)
Montenegro	77 (0.8)	455 (2.2)	20 (0.8)	454 (3.4)	3 (0.3)	455 (10.3)	10.9 (0.03)
Ireland	77 (1.1)	552 (2.4)	21 (1.0)	552 (4.4)	2 (0.4)	--	10.8 (0.05)
Turkey (5)	77 (1.7)	522 (4.8)	20 (1.5)	523 (7.6)	3 (0.4)	551 (14.1)	10.9 (0.08)
Oman	76 (1.0)	442 (4.1)	21 (0.8)	407 (4.7)	3 (0.3)	370 (8.3)	10.8 (0.05)
South Africa (5) r	76 (0.9)	384 (3.7)	21 (0.7)	353 (4.3)	3 (0.3)	336 (9.7)	10.8 (0.04)
Bosnia and Herzegovina	76 (1.2)	452 (2.5)	21 (1.0)	453 (3.8)	3 (0.3)	449 (8.7)	10.8 (0.06)
Pakistan r	76 (2.7)	340 (13.9)	22 (2.6)	301 (12.3)	2 (0.5)	--	10.9 (0.10)
Philippines	75 (1.3)	308 (6.5)	23 (1.2)	271 (7.1)	2 (0.2)	--	10.9 (0.06)
Serbia	75 (1.3)	506 (3.6)	22 (1.1)	520 (3.9)	3 (0.4)	521 (8.4)	10.8 (0.06)
Qatar r	72 (1.4)	457 (3.4)	24 (1.2)	446 (5.6)	4 (0.5)	417 (12.3)	10.7 (0.07)
Morocco	72 (1.7)	392 (4.5)	25 (1.5)	367 (6.9)	4 (0.5)	351 (14.5)	10.5 (0.07)
Portugal	71 (1.1)	531 (2.8)	25 (1.0)	519 (3.0)	4 (0.4)	519 (7.0)	10.5 (0.05)
Iran, Islamic Rep. of	70 (1.4)	447 (4.3)	26 (1.2)	439 (5.8)	4 (0.4)	420 (10.1)	10.4 (0.06)
Italy	68 (1.4)	518 (2.7)	28 (1.3)	512 (3.1)	4 (0.4)	513 (8.0)	10.4 (0.06)
Spain	68 (1.3)	508 (3.0)	27 (1.0)	509 (2.6)	5 (0.5)	482 (6.7)	10.4 (0.06)
Lithuania r	67 (1.3)	546 (3.3)	29 (1.1)	536 (4.0)	4 (0.5)	543 (8.3)	10.3 (0.06)
Cyprus	67 (1.4)	537 (3.1)	29 (1.1)	533 (3.0)	5 (0.5)	519 (9.2)	10.3 (0.06)
Bahrain	64 (1.1)	486 (3.0)	31 (0.9)	474 (3.1)	5 (0.5)	462 (6.7)	10.3 (0.05)
Singapore	63 (0.8)	632 (4.1)	33 (0.7)	620 (4.0)	4 (0.3)	592 (7.1)	10.3 (0.03)
Kuwait r	63 (1.2)	397 (5.2)	30 (1.0)	378 (6.0)	8 (0.5)	342 (8.7)	10.2 (0.05)
Slovak Republic	61 (1.1)	510 (4.3)	34 (0.9)	513 (3.5)	5 (0.4)	519 (5.8)	10.2 (0.05)
Austria	60 (1.4)	545 (2.5)	34 (1.1)	539 (2.8)	6 (0.5)	520 (5.7)	10.0 (0.06)
Hungary	58 (1.4)	525 (3.1)	35 (1.1)	528 (3.5)	6 (0.5)	519 (5.9)	10.0 (0.06)
Canada s	58 (0.9)	525 (2.7)	36 (0.8)	524 (2.3)	6 (0.4)	503 (5.7)	10.1 (0.04)
Finland	55 (1.3)	539 (2.8)	41 (1.2)	533 (2.7)	4 (0.4)	511 (8.3)	9.9 (0.05)
Hong Kong SAR	54 (1.2)	610 (3.7)	40 (1.2)	599 (3.7)	5 (0.6)	579 (6.4)	9.9 (0.05)
Russian Federation	52 (1.4)	566 (4.1)	42 (1.2)	571 (3.2)	6 (0.6)	555 (5.3)	9.7 (0.06)
Denmark s	51 (1.6)	544 (2.9)	37 (1.3)	538 (3.8)	12 (1.0)	522 (5.7)	9.5 (0.08)
Belgium (Flemish)	50 (1.1)	536 (2.6)	46 (1.0)	533 (2.2)	4 (0.4)	519 (6.4)	9.7 (0.04)
Latvia	48 (1.1)	548 (3.2)	44 (0.9)	548 (2.7)	7 (0.6)	535 (5.0)	9.6 (0.05)
Chinese Taipei	46 (1.2)	598 (2.2)	48 (1.1)	600 (2.5)	6 (0.5)	603 (5.3)	9.6 (0.05)
Germany s	45 (1.6)	539 (3.2)	45 (1.4)	531 (2.9)	11 (0.9)	514 (5.3)	9.3 (0.07)
Sweden r	44 (1.7)	530 (4.0)	48 (1.5)	528 (2.8)	8 (0.8)	511 (5.2)	9.4 (0.07)
Chile	44 (1.5)	444 (3.3)	49 (1.2)	442 (3.2)	8 (0.7)	436 (6.7)	9.4 (0.07)
Croatia	43 (1.1)	512 (2.9)	50 (1.0)	508 (2.4)	7 (0.5)	514 (6.2)	9.5 (0.05)
Poland	42 (1.3)	520 (4.1)	52 (1.1)	523 (2.4)	6 (0.5)	524 (5.1)	9.5 (0.06)
France	37 (1.1)	493 (4.1)	55 (1.1)	487 (3.3)	8 (0.7)	472 (6.4)	9.1 (0.05)
Czech Republic r	36 (1.9)	541 (3.9)	51 (1.5)	541 (2.8)	13 (1.0)	542 (4.0)	9.0 (0.09)
Korea, Rep. of	15 (0.9)	603 (4.3)	70 (0.9)	600 (2.4)	14 (0.7)	599 (3.3)	8.2 (0.04)
Japan	9 (0.8)	598 (5.2)	68 (0.9)	595 (1.7)	24 (0.9)	590 (2.8)	7.8 (0.04)
Australia	--	--	--	--	--	--	--
England	--	--	--	--	--	--	--
Netherlands	--	--	--	--	--	--	--
Norway (5)	--	--	--	--	--	--	--
United States	--	--	--	--	--	--	--
United Arab Emirates x	71 (0.7)	507 (2.3)	25 (0.5)	491 (3.3)	5 (0.3)	472 (5.5)	10.6 (0.03)
New Zealand x	64 (1.7)	513 (3.9)	31 (1.5)	511 (4.3)	5 (0.6)	490 (10.3)	10.3 (0.07)
International Average	64 (0.2)	504 (0.6)	31 (0.2)	497 (0.6)	5 (0.1)	495 (1.2)	
Benchmarking Participants							
Dubai, UAE s	69 (1.2)	563 (2.2)	26 (1.2)	546 (3.6)	5 (0.3)	531 (7.0)	10.5 (0.05)
Madrid, Spain	66 (1.3)	523 (2.7)	28 (1.2)	519 (3.1)	6 (0.6)	505 (7.0)	10.3 (0.05)
Ontario, Canada s	57 (1.5)	528 (5.4)	35 (1.3)	523 (3.6)	8 (0.7)	499 (8.3)	9.9 (0.07)
Quebec, Canada r	51 (1.3)	540 (3.1)	45 (1.3)	537 (3.2)	4 (0.5)	528 (5.8)	9.8 (0.05)
Moscow City, Russian Fed.	38 (1.3)	589 (3.0)	49 (1.1)	597 (2.3)	13 (0.8)	588 (3.5)	9.1 (0.06)
Abu Dhabi, UAE y	--	--	--	--	--	--	--

This TIMSS context 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 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 7.8: Parents' Perceptions of Their Child's School

Students' Results based on Parents' Reports

Country	Very Satisfied		Somewhat Satisfied		Less than Satisfied		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Albania	90 (0.8)	492 (3.7)	9 (0.7)	480 (7.9)	2 (0.4)	--	11.5 (0.05)
Armenia	88 (1.0)	468 (3.6)	11 (0.9)	457 (5.7)	1 (0.1)	--	11.5 (0.05)
Kazakhstan	87 (1.0)	494 (3.2)	12 (0.9)	503 (5.9)	1 (0.2)	--	11.5 (0.05)
Malta	r 85 (0.7)	501 (1.8)	14 (0.7)	509 (4.4)	1 (0.2)	--	11.2 (0.03)
Kosovo	84 (0.8)	415 (4.0)	14 (0.6)	413 (5.7)	2 (0.3)	--	11.1 (0.04)
Saudi Arabia	80 (0.9)	410 (4.6)	17 (0.7)	388 (6.8)	3 (0.3)	388 (10.9)	11.0 (0.05)
Northern Ireland	s 79 (1.2)	535 (2.9)	19 (1.1)	517 (5.1)	2 (0.3)	--	11.0 (0.06)
Georgia	79 (1.1)	454 (4.2)	19 (1.0)	465 (5.3)	2 (0.2)	--	10.9 (0.05)
North Macedonia	79 (1.1)	427 (7.0)	18 (0.9)	439 (8.6)	3 (0.5)	418 (12.6)	10.8 (0.05)
Azerbaijan	78 (1.1)	436 (3.3)	19 (1.0)	429 (5.2)	3 (0.3)	434 (10.3)	10.9 (0.06)
Bulgaria	78 (1.4)	518 (4.7)	19 (1.1)	541 (8.1)	4 (0.4)	544 (19.1)	10.9 (0.07)
Montenegro	77 (0.8)	456 (2.9)	20 (0.8)	456 (3.5)	3 (0.3)	464 (10.3)	10.9 (0.03)
Ireland	77 (1.1)	531 (2.8)	21 (1.0)	532 (5.0)	2 (0.4)	--	10.8 (0.05)
Turkey (5)	77 (1.7)	524 (4.7)	20 (1.5)	529 (7.0)	3 (0.4)	551 (9.7)	10.9 (0.08)
Oman	76 (1.0)	447 (4.4)	21 (0.8)	411 (6.0)	3 (0.3)	363 (12.0)	10.8 (0.05)
South Africa (5)	r 76 (0.9)	336 (5.0)	21 (0.7)	297 (6.2)	3 (0.3)	284 (12.4)	10.8 (0.04)
Bosnia and Herzegovina	76 (1.2)	458 (3.2)	21 (1.0)	461 (3.8)	3 (0.3)	460 (8.3)	10.8 (0.06)
Pakistan	r 76 (2.7)	304 (14.8)	22 (2.6)	260 (12.8)	2 (0.5)	--	10.9 (0.10)
Philippines	75 (1.3)	261 (7.8)	23 (1.2)	218 (9.0)	2 (0.2)	--	10.9 (0.06)
Serbia	75 (1.3)	515 (4.0)	22 (1.1)	529 (3.9)	3 (0.4)	533 (8.6)	10.8 (0.06)
Qatar	r 72 (1.4)	462 (4.1)	24 (1.2)	441 (6.0)	4 (0.5)	413 (12.7)	10.7 (0.07)
Morocco	72 (1.7)	385 (5.9)	25 (1.5)	352 (9.4)	4 (0.5)	345 (17.9)	10.5 (0.07)
Portugal	71 (1.1)	507 (2.4)	25 (1.0)	503 (3.2)	4 (0.4)	487 (8.5)	10.5 (0.05)
Iran, Islamic Rep. of	70 (1.4)	443 (4.4)	26 (1.2)	439 (5.7)	4 (0.4)	426 (10.5)	10.4 (0.06)
Italy	68 (1.4)	514 (3.0)	28 (1.3)	507 (3.9)	4 (0.4)	506 (7.0)	10.4 (0.06)
Spain	68 (1.3)	516 (2.6)	27 (1.0)	516 (2.8)	5 (0.5)	497 (6.2)	10.4 (0.06)
Lithuania	r 67 (1.3)	541 (3.3)	29 (1.1)	533 (4.2)	4 (0.5)	535 (8.1)	10.3 (0.06)
Cyprus	67 (1.4)	515 (3.5)	29 (1.1)	513 (3.4)	5 (0.5)	504 (7.3)	10.3 (0.06)
Bahrain	64 (1.1)	506 (3.4)	31 (0.9)	483 (4.3)	5 (0.5)	458 (8.4)	10.3 (0.05)
Singapore	63 (0.8)	600 (3.5)	33 (0.7)	591 (3.7)	4 (0.3)	569 (7.0)	10.3 (0.03)
Kuwait	r 63 (1.2)	410 (6.3)	30 (1.0)	390 (7.3)	8 (0.5)	349 (10.1)	10.2 (0.05)
Slovak Republic	61 (1.1)	516 (4.7)	34 (0.9)	530 (3.2)	5 (0.4)	543 (7.0)	10.2 (0.05)
Austria	60 (1.4)	526 (3.3)	34 (1.1)	527 (3.2)	6 (0.5)	513 (5.0)	10.0 (0.06)
Hungary	58 (1.4)	530 (3.3)	35 (1.1)	534 (3.0)	6 (0.5)	530 (5.8)	10.0 (0.06)
Canada	s 58 (0.9)	533 (2.7)	36 (0.8)	532 (2.1)	6 (0.4)	528 (5.1)	10.1 (0.04)
Finland	55 (1.3)	560 (2.9)	41 (1.2)	557 (3.1)	4 (0.4)	537 (7.6)	9.9 (0.05)
Hong Kong SAR	54 (1.2)	540 (3.4)	40 (1.2)	524 (3.6)	5 (0.6)	514 (7.3)	9.9 (0.05)
Russian Federation	52 (1.4)	566 (3.6)	42 (1.2)	571 (3.3)	6 (0.6)	558 (4.6)	9.7 (0.06)
Denmark	s 51 (1.6)	537 (3.2)	37 (1.3)	534 (3.7)	12 (1.0)	523 (5.9)	9.5 (0.08)
Belgium (Flemish)	50 (1.1)	502 (2.6)	46 (1.0)	504 (2.7)	4 (0.4)	494 (6.1)	9.7 (0.04)
Latvia	48 (1.1)	543 (3.2)	44 (0.9)	544 (2.3)	7 (0.6)	531 (4.7)	9.6 (0.05)
Chinese Taipei	46 (1.2)	554 (2.1)	48 (1.1)	562 (2.4)	6 (0.5)	564 (5.2)	9.6 (0.05)
Germany	s 45 (1.6)	535 (3.6)	45 (1.4)	530 (2.9)	11 (0.9)	526 (5.3)	9.3 (0.07)
Sweden	r 44 (1.7)	542 (4.2)	48 (1.5)	544 (3.5)	8 (0.8)	534 (6.6)	9.4 (0.07)
Chile	44 (1.5)	470 (3.2)	49 (1.2)	470 (3.0)	8 (0.7)	470 (6.7)	9.4 (0.07)
Croatia	43 (1.1)	525 (2.8)	50 (1.0)	524 (2.5)	7 (0.5)	528 (5.8)	9.5 (0.05)
Poland	42 (1.3)	528 (4.0)	52 (1.1)	535 (2.4)	6 (0.5)	539 (5.5)	9.5 (0.06)
France	37 (1.1)	491 (4.1)	55 (1.1)	491 (3.6)	8 (0.7)	480 (6.4)	9.1 (0.05)
Czech Republic	r 36 (1.9)	538 (3.7)	51 (1.5)	543 (2.7)	13 (1.0)	540 (4.9)	9.0 (0.09)
Korea, Rep. of	15 (0.9)	587 (4.0)	70 (0.9)	588 (2.3)	14 (0.7)	590 (3.9)	8.2 (0.04)
Japan	9 (0.8)	571 (5.0)	68 (0.9)	564 (1.8)	24 (0.9)	557 (2.6)	7.8 (0.04)
Australia	--	--	--	--	--	--	--
England	--	--	--	--	--	--	--
Netherlands	--	--	--	--	--	--	--
Norway (5)	--	--	--	--	--	--	--
United States	--	--	--	--	--	--	--
United Arab Emirates	x 71 (0.7)	505 (2.7)	25 (0.5)	485 (3.6)	5 (0.3)	465 (6.4)	10.6 (0.03)
New Zealand	x 64 (1.7)	527 (3.7)	31 (1.5)	525 (4.0)	5 (0.6)	516 (8.3)	10.3 (0.07)
International Average	64 (0.2)	493 (0.6)	31 (0.2)	487 (0.7)	5 (0.1)	491 (1.3)	
Benchmarking Participants							
Dubai, UAE	s 69 (1.2)	567 (2.5)	26 (1.2)	547 (3.8)	5 (0.3)	533 (8.0)	10.5 (0.05)
Madrid, Spain	66 (1.3)	526 (2.5)	28 (1.2)	521 (3.1)	6 (0.6)	518 (6.3)	10.3 (0.05)
Ontario, Canada	s 57 (1.5)	534 (4.8)	35 (1.3)	536 (3.2)	8 (0.7)	529 (7.0)	9.9 (0.07)
Quebec, Canada	r 51 (1.3)	528 (3.5)	45 (1.3)	528 (3.2)	4 (0.5)	525 (5.6)	9.8 (0.05)
Moscow City, Russian Fed.	38 (1.3)	589 (3.0)	49 (1.1)	600 (2.4)	13 (0.8)	593 (3.7)	9.1 (0.06)
Abu Dhabi, UAE	y --	--	--	--	--	--	--

This TIMSS context 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 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.