## About the Scale

Students were scored according to their own and their parents' reports regarding the availability of five resources on the Home Resources for Learning scale. Cut scores divide the scale into three categories. Students with Many Resources had a score at or above the cut score corresponding to students reporting they had more than 100 books and both home study supports in their home and their parents reporting they had more than 25 children's books in their home, that at least one parent finished university, and that at least one parent had a professional occupation, on average. Students with Few Resources had a score at or below the cut score corresponding to students reporting they had 25 or fewer books and neither of the home study supports in their home and their parents reporting they had 10 or fewer children's books in the home, that neither parent had gone beyond upper secondary education, and that neither parent was a small business owner or worked in a clerical or professional occupation, on average. All other students had Some Resources.

## Number of books in the home (students):

1) $0-10$
2) $11-25$
3) $26-100$
4) $101-200$
5) More than 200

Number of home study supports (students):

1) None
2) Internet connection or own room
3) Both internet connection and own room

## Number of children's books in the home (parents):

1) $0-10$
2) $11-25$
3) $26-50$
4) $51-100$
5) More than 100

Highest level of education of either parent (parents):

1) Finished some primary or lower secondary or did not go to school
2) Finished lower secondary
3) Finished upper secondary
4) Finished post-secondary education
5) Finished university or higher

Highest level of occupation of either parent (parents):

1) Has never worked outside home for pay, general laborer, or semi-professional (skilled agricultural or fishery worker, craft or trade worker, plant or machine operator)
2) Clerical (clerk or service or sales worker)
3) Small business owner
4) Professional (corporate manager or senior official, professional, or technician or associate professional)


TIMSS \& PIRLS

| Country |  | Many Resources |  | Some Resources |  | Few Resources |  | Average Scale Score |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Percent of Students | Average Achievement | Percent of Students | Average Achievement | Percent of Students | Average Achievement |  |
| Korea, Rep. of |  | 53 (1.6) | 624 (2.1) | 47 (1.6) | 574 (2.4) | 0 (0.1) | $\sim \sim$ | 11.9 (0.06) |
| Sweden | r | 39 (1.9) | 562 (3.0) | 60 (1.8) | 510 (2.8) | 2 (0.4) | $\sim \sim$ | 11.2 (0.08) |
| Denmark | s | 37 (1.5) | 564 (2.9) | 62 (1.5) | 526 (3.1) | 1 (0.2) | $\sim \sim$ | 11.3 (0.04) |
| Canada | s | 36 (1.7) | 546 (2.1) | 64 (1.7) | 511 (3.8) | 0 (0.1) | ~ | 11.3 (0.05) |
| Northern Ireland | s | 35 (1.8) | 626 (4.5) | 63 (1.7) | 565 (3.6) | 1 (0.3) | $\sim \sim$ | 11.1 (0.07) |
| Finland |  | 35 (1.1) | 567 (2.5) | 65 (1.1) | 520 (2.5) | 1 (0.1) | ~ ~ | 11.2 (0.04) |
| Ireland |  | 34 (1.4) | 587 (2.6) | 64 (1.5) | 535 (2.7) | 1 (0.3) | $\sim \sim$ | 11.1 (0.05) |
| Norway (5) | s | 33 (1.5) | 583 (3.9) | 66 (1.5) | 540 (3.1) | 1 (0.2) | ~ ~ | 11.5 (0.05) |
| Singapore |  | 31 (1.0) | 665 (3.4) | 67 (1.0) | 612 (4.0) | 1 (0.2) | $\sim \sim$ | 11.0 (0.04) |
| Cyprus |  | 29 (1.4) | 570 (3.1) | 70 (1.3) | 522 (2.7) | 1 (0.2) | ~ ~ | 10.9 (0.05) |
| France |  | 28 (1.5) | 538 (2.8) | 69 (1.4) | 471 (2.9) | 3 (0.3) | 419 (9.3) | 10.8 (0.06) |
| Germany | s | 27 (1.4) | 572 (3.1) | 72 (1.4) | 521 (2.7) | 1 (0.3) | ~ | 10.8 (0.05) |
| Hungary |  | 27 (1.4) | 574 (3.0) | 68 (1.4) | 513 (2.5) | 5 (0.8) | 432 (7.6) | 10.6 (0.07) |
| Belgium (Flemish) |  | 27 (1.1) | 567 (2.5) | 71 (1.1) | 525 (2.1) | 3 (0.4) | 472 (6.9) | 10.7 (0.04) |
| Hong Kong SAR |  | 27 (1.6) | 636 (4.3) | 67 (1.5) | 595 (3.0) | 6 (0.6) | 561 (7.4) | 10.5 (0.08) |
| Malta | r | 27 (0.7) | 553 (2.8) | 72 (0.7) | 504 (1.7) | 1 (0.2) | ~~ | 10.8 (0.03) |
| Czech Republic | r | 24 (1.1) | 582 (3.2) | 75 (1.1) | 530 (2.7) | 1 (0.2) | $\sim \sim$ | 10.8 (0.04) |
| Austria |  | 22 (1.0) | 584 (2.7) | 75 (1.0) | 531 (2.0) | 2 (0.3) | ~ ~ | 10.6 (0.04) |
| Poland |  | 22 (1.1) | 568 (3.9) | 77 (1.0) | 509 (2.6) | 1 (0.2) | ~ ~ | 10.6 (0.05) |
| Spain |  | 20 (1.2) | 547 (2.8) | 75 (1.2) | 500 (2.8) | 4 (0.6) | 447 (9.4) | 10.4 (0.06) |
| Chinese Taipei |  | 20 (1.1) | 637 (2.5) | 74 (1.1) | 593 (1.9) | 5 (0.5) | 542 (8.2) | 10.4 (0.05) |
| Latvia |  | 19 (1.0) | 578 (3.4) | 79 (1.0) | 541 (2.5) | 2 (0.3) | ~ | 10.6 (0.04) |
| Portugal |  | 19 (1.1) | 574 (3.3) | 76 (1.1) | 521 (2.7) | 5 (0.5) | 466 (6.3) | 10.2 (0.06) |
| Slovak Republic |  | 19 (1.2) | 560 (4.2) | 74 (1.4) | 507 (2.6) | 7 (1.3) | 416 (8.5) | 10.2 (0.08) |
| Lithuania | r | 16 (1.1) | 592 (5.1) | 82 (1.0) | 535 (2.8) | 2 (0.3) | ~ | 10.4 (0.05) |
| Georgia |  | 15 (1.0) | 513 (5.5) | 82 (1.1) | 478 (4.1) | 4 (0.6) | 445 (15.7) | 10.3 (0.06) |
| Russian Federation |  | 14 (1.1) | 597 (3.8) | 84 (1.1) | 564 (3.4) | 3 (0.5) | 537 (12.2) | 10.3 (0.06) |
| Bulgaria |  | 13 (0.8) | 578 (3.1) | 69 (1.9) | 526 (2.7) | 18 (2.1) | 440 (12.5) | 9.6 (0.09) |
| Serbia |  | 13 (1.0) | 574 (3.9) | 83 (1.1) | 506 (2.5) | 4 (0.6) | 387 (13.9) | 10.0 (0.05) |
| Japan |  | 12 (0.7) | 637 (3.8) | 87 (0.7) | 589 (1.7) | 1 (0.2) | ~~ | 10.3 (0.04) |
| Qatar | $r$ | 11 (0.9) | 512 (7.4) | 87 (1.0) | 451 (3.6) | 2 (0.3) | ~ | 10.2 (0.04) |
| Croatia |  | 10 (0.7) | 549 (3.6) | 87 (1.0) | 508 (2.2) | 3 (0.9) | 448 (15.2) | 9.9 (0.05) |
| Italy |  | 10 (0.8) | 552 (4.4) | 83 (0.9) | 515 (2.5) | 7 (0.8) | 491 (5.3) | 9.8 (0.06) |
| Montenegro | r | 9 (0.5) | 507 (5.2) | 87 (0.6) | 454 (2.1) | 4 (0.3) | 384 (9.8) | 10.0 (0.03) |
| Bahrain |  | 8 (0.5) | 520 (5.9) | 88 (0.6) | 480 (2.7) | 4 (0.3) | 461 (6.1) | 9.9 (0.03) |
| North Macedonia |  | 7 (0.9) | 550 (7.6) | 78 (1.5) | 485 (4.7) | 15 (1.6) | 406 (9.4) | 9.3 (0.09) |
| Kazakhstan |  | 6 (1.0) | 552 (9.5) | 90 (1.0) | 511 (2.4) | 4 (0.5) | 491 (5.8) | 9.8 (0.06) |
| Turkey (5) |  | 6 (0.7) | 625 (5.9) | 68 (1.6) | 543 (3.8) | 26 (1.6) | 450 (6.1) | 8.7 (0.08) |
| Armenia |  | 5 (0.6) | 534 (5.4) | 86 (0.8) | 500 (2.4) | 9 (0.7) | 469 (6.1) | 9.5 (0.05) |
| Albania |  | 5 (0.7) | 577 (6.4) | 65 (1.7) | 505 (3.3) | 30 (1.9) | 467 (6.0) | 8.6 (0.08) |
| Bosnia and Herzegovina |  | 5 (0.5) | 517 (6.0) | 89 (0.7) | 453 (2.2) | 6 (0.5) | 410 (6.7) | 9.3 (0.05) |
| Iran, Islamic Rep. of |  | 5 (0.7) | 537 (8.7) | 70 (1.5) | 453 (3.4) | 25 (1.4) | 405 (7.2) | 8.7 (0.07) |
| Oman |  | 4 (0.4) | 505 (6.8) | 86 (0.6) | 436 (4.0) | 10 (0.6) | 391 (7.4) | 9.4 (0.04) |
| Chile |  | 4 (0.4) | 516 (6.4) | 86 (0.7) | 444 (2.9) | 10 (0.6) | 401 (4.6) | 9.3 (0.04) |
| Kuwait | r | 4 (0.5) | 447 (14.3) | 93 (0.5) | 388 (4.9) | 2 (0.4) | ~ | 9.8 (0.04) |
| Kosovo |  | 4 (0.6) | 503 (7.4) | 84 (0.8) | 448 (2.7) | 12 (0.8) | 415 (6.1) | 9.1 (0.05) |
| Saudi Arabia |  | 3 (0.3) | 466 (8.2) | 88 (0.7) | 403 (3.5) | 9 (0.7) | 383 (7.4) | 9.4 (0.05) |
| Azerbaijan |  | 2 (0.3) | ~~ | 86 (0.8) | 525 (2.5) | 12 (0.8) | 495 (5.3) | 9.1 (0.04) |
| South Africa (5) | r | 2 (0.3) | $\sim \sim$ | 74 (1.0) | 385 (3.7) | 24 (1.0) | 349 (3.4) | 8.5 (0.05) |
| Morocco |  | 1 (0.2) | ~~ | 39 (1.4) | 413 (6.5) | 60 (1.4) | 369 (5.8) | 6.9 (0.08) |
| Pakistan | r | 0 (0.2) | ~ | 62 (2.7) | 333 (14.5) | 38 (2.8) | 325 (12.4) | 8.0 (0.14) |
| Philippines |  | 0 (0.1) | ~ | 66 (1.8) | 313 (6.8) | 34 (1.8) | 270 (5.8) | 8.1 (0.07) |
| Australia |  | - - | -- | -- | -- | -- | -- | -- |
| England |  | -- | -- | -- | -- | -- | -- | -- |
| Netherlands |  | -- | -- | -- | -- | -- | -- | -- |
| United States |  | -- | -- | -- | -- | -- | -- | -- |
| New Zealand | x | 42 (1.6) | 549 (3.6) | 57 (1.6) | 486 (4.1) | 1 (0.2) | ~~ | 11.4 (0.06) |
| United Arab Emirates | X | 12 (0.4) | 557 (2.5) | 87 (0.4) | 495 (2.3) | 1 (0.1) | $\sim$ | 10.4 (0.02) |
| International Average |  | 17 (0.1) | 562 (0.7) | 75 (0.2) | 498 (0.5) | 8 (0.1) | 433 (1.5) |  |
| Benchmarking Participants |  |  |  |  |  |  |  |  |
| Moscow City, Russian Fed. |  | 39 (1.3) | 611 (2.3) | 60 (1.3) | 581 (2.4) | 0 (0.1) | $\sim \sim$ | 11.4 (0.05) |
| Ontario, Canada | s | 36 (3.1) | 548 (3.9) | 64 (3.1) | 512 (7.4) | 0 (0.1) | $\sim \sim$ | 11.3 (0.09) |
| Quebec, Canada | s | 35 (2.0) | 562 (3.1) | 65 (1.9) | 525 (3.2) | 0 (0.2) | $\sim \sim$ | 11.2 (0.07) |
| Madrid, Spain |  | 32 (1.3) | 550 (2.4) | 66 (1.3) | 510 (2.4) | 3 (0.4) | 457 (10.1) | 10.9 (0.06) |
| Dubai, UAE | s | 19 (0.7) | 594 (2.9) | 81 (0.7) | 549 (2.2) | 0 (0.1) | ~ | 10.8 (0.02) |
| Abu Dhabi, UAE | y | -- | -- | -- | -- | -- | -- | -- |

[^0]Average Mathematics Achievement by Home Resources for Learning


| Country |  | Many Resources |  | Some Resources |  | Few Resources |  | Average Scale Score |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Percent of Students | Average Achievement | Percent of Students | Average Achievement | Percent of Students | Average Achievement |  |
| Korea, Rep. of |  | 53 (1.6) | 610 (1.9) | 47 (1.6) | 564 (2.7) | 0 (0.1) | $\sim \sim$ | 11.9 (0.06) |
| Sweden | r | 39 (1.9) | 580 (3.2) | 60 (1.8) | 524 (3.3) | 2 (0.4) | $\sim \sim$ | 11.2 (0.08) |
| Denmark | s | 37 (1.5) | 560 (2.9) | 62 (1.5) | 521 (3.1) | 1 (0.2) | $\sim \sim$ | 11.3 (0.04) |
| Canada | s | 36 (1.7) | 558 (2.2) | 64 (1.7) | 520 (3.1) | 0 (0.1) | ~ | 11.3 (0.05) |
| Northern Ireland | s | 35 (1.8) | 565 (3.3) | 63 (1.7) | 515 (2.6) | 1 (0.3) | $\sim \sim$ | 11.1 (0.07) |
| Finland |  | 35 (1.1) | 585 (3.2) | 65 (1.1) | 545 (2.6) | 1 (0.1) | ~ ~ | 11.2 (0.04) |
| Ireland |  | 34 (1.4) | 567 (3.4) | 64 (1.5) | 514 (3.3) | 1 (0.3) | ~ | 11.1 (0.05) |
| Norway (5) | s | 33 (1.5) | 579 (3.5) | 66 (1.5) | 534 (3.5) | 1 (0.2) | ~ ~ | 11.5 (0.05) |
| Singapore |  | 31 (1.0) | 640 (3.1) | 67 (1.0) | 579 (3.4) | 1 (0.2) | ~ | 11.0 (0.04) |
| Cyprus |  | 29 (1.4) | 551 (3.8) | 70 (1.3) | 501 (2.8) | 1 (0.2) | ~ ~ | 10.9 (0.05) |
| France |  | 28 (1.5) | 541 (2.8) | 69 (1.4) | 473 (2.9) | 3 (0.3) | 417 (10.2) | 10.8 (0.06) |
| Germany | s | 27 (1.4) | 577 (3.0) | 72 (1.4) | 519 (2.4) | 1 (0.3) | ~ ~ | 10.8 (0.05) |
| Hungary |  | 27 (1.4) | 579 (2.5) | 68 (1.4) | 519 (2.4) | 5 (0.8) | 442 (10.3) | 10.6 (0.07) |
| Belgium (Flemish) |  | 27 (1.1) | 540 (2.4) | 71 (1.1) | 493 (2.1) | 3 (0.4) | 432 (6.3) | 10.7 (0.04) |
| Hong Kong SAR |  | 27 (1.6) | 570 (3.9) | 67 (1.5) | 521 (3.3) | 6 (0.6) | 492 (8.0) | 10.5 (0.08) |
| Malta | r | 27 (0.7) | 547 (2.7) | 72 (0.7) | 488 (1.8) | 1 (0.2) | ~~ | 10.8 (0.03) |
| Czech Republic | r | 24 (1.1) | 578 (3.4) | 75 (1.1) | 531 (3.0) | 1 (0.2) | $\sim \sim$ | 10.8 (0.04) |
| Austria |  | 22 (1.0) | 578 (3.1) | 75 (1.0) | 514 (2.8) | 2 (0.3) | ~ ~ | 10.6 (0.04) |
| Poland |  | 22 (1.1) | 577 (3.6) | 77 (1.0) | 520 (2.5) | 1 (0.2) | $\sim \sim$ | 10.6 (0.05) |
| Spain |  | 20 (1.2) | 553 (2.9) | 75 (1.2) | 509 (2.2) | 4 (0.6) | 463 (8.8) | 10.4 (0.06) |
| Chinese Taipei |  | 20 (1.1) | 598 (2.7) | 74 (1.1) | 552 (1.6) | 5 (0.5) | 496 (7.0) | 10.4 (0.05) |
| Latvia |  | 19 (1.0) | 573 (2.7) | 79 (1.0) | 537 (2.3) | 2 (0.3) | ~ | 10.6 (0.04) |
| Portugal |  | 19 (1.1) | 547 (3.3) | 76 (1.1) | 500 (2.6) | 5 (0.5) | 453 (5.3) | 10.2 (0.06) |
| Slovak Republic |  | 19 (1.2) | 574 (3.6) | 74 (1.4) | 520 (2.6) | 7 (1.3) | 396 (11.9) | 10.2 (0.08) |
| Lithuania | r | 16 (1.1) | 587 (5.5) | 82 (1.0) | 531 (2.5) | 2 (0.3) | ~ | 10.4 (0.05) |
| Georgia |  | 15 (1.0) | 487 (5.1) | 82 (1.1) | 449 (4.5) | 4 (0.6) | 432 (20.7) | 10.3 (0.06) |
| Russian Federation |  | 14 (1.1) | 599 (4.0) | 84 (1.1) | 564 (3.0) | 3 (0.5) | 522 (11.1) | 10.3 (0.06) |
| Bulgaria |  | 13 (0.8) | 602 (4.0) | 69 (1.9) | 536 (3.5) | 18 (2.1) | 420 (11.7) | 9.6 (0.09) |
| Serbia |  | 13 (1.0) | 576 (3.4) | 83 (1.1) | 517 (2.9) | 4 (0.6) | 389 (17.0) | 10.0 (0.05) |
| Japan |  | 12 (0.7) | 606 (4.4) | 87 (0.7) | 558 (1.7) | 1 (0.2) | ~ ~ | 10.3 (0.04) |
| Qatar | $r$ | 11 (0.9) | 513 (7.6) | 87 (1.0) | 454 (4.4) | 2 (0.3) | ~ ~ | 10.2 (0.04) |
| Croatia |  | 10 (0.7) | 562 (3.5) | 87 (1.0) | 522 (2.2) | 3 (0.9) | 468 (11.6) | 9.9 (0.05) |
| Italy |  | 10 (0.8) | 551 (4.0) | 83 (0.9) | 511 (2.9) | 7 (0.8) | 478 (5.8) | 9.8 (0.06) |
| Montenegro | r | 9 (0.5) | 515 (5.2) | 87 (0.6) | 454 (2.7) | 4 (0.3) | 378 (11.6) | 10.0 (0.03) |
| Bahrain |  | 8 (0.5) | 552 (6.4) | 88 (0.6) | 495 (3.4) | 4 (0.3) | 451 (8.4) | 9.9 (0.03) |
| North Macedonia |  | 7 (0.9) | 511 (7.6) | 78 (1.5) | 439 (5.6) | 15 (1.6) | 352 (10.1) | 9.3 (0.09) |
| Kazakhstan |  | 6 (1.0) | 557 (12.0) | 90 (1.0) | 492 (2.9) | 4 (0.5) | 466 (6.2) | 9.8 (0.06) |
| Turkey (5) |  | 6 (0.7) | 612 (5.1) | 68 (1.6) | 546 (3.6) | 26 (1.6) | 459 (6.4) | 8.7 (0.08) |
| Armenia |  | 5 (0.6) | 511 (6.4) | 86 (0.8) | 467 (3.3) | 9 (0.7) | 434 (7.3) | 9.5 (0.05) |
| Albania |  | 5 (0.7) | 570 (6.3) | 65 (1.7) | 499 (3.4) | 30 (1.9) | 464 (5.7) | 8.6 (0.08) |
| Bosnia and Herzegovina |  | 5 (0.5) | 518 (6.1) | 89 (0.7) | 459 (2.9) | 6 (0.5) | 420 (8.3) | 9.3 (0.05) |
| Iran, Islamic Rep. of |  | 5 (0.7) | 541 (6.4) | 70 (1.5) | 453 (3.6) | 25 (1.4) | 395 (7.1) | 8.7 (0.07) |
| Oman |  | 4 (0.4) | 526 (7.9) | 86 (0.6) | 443 (4.2) | 10 (0.6) | 376 (6.5) | 9.4 (0.04) |
| Chile |  | 4 (0.4) | 543 (5.9) | 86 (0.7) | 473 (2.6) | 10 (0.6) | 424 (3.9) | 9.3 (0.04) |
| Kuwait | r | 4 (0.5) | 449 (17.7) | 93 (0.5) | 402 (6.0) | 2 (0.4) | ~ | 9.8 (0.04) |
| Kosovo |  | 4 (0.6) | 485 (8.3) | 84 (0.8) | 417 (3.2) | 12 (0.8) | 383 (7.7) | 9.1 (0.05) |
| Saudi Arabia |  | 3 (0.3) | 477 (9.6) | 88 (0.7) | 409 (3.9) | 9 (0.7) | 382 (8.9) | 9.4 (0.05) |
| Azerbaijan |  | 2 (0.3) | ~~ | 86 (0.8) | 438 (3.0) | 12 (0.8) | 403 (5.6) | 9.1 (0.04) |
| South Africa (5) | $r$ | 2 (0.3) | $\sim \sim$ | 74 (1.0) | 340 (5.2) | 24 (1.0) | 287 (4.7) | 8.5 (0.05) |
| Morocco |  | 1 (0.2) | ~~ | 39 (1.4) | 404 (7.3) | 60 (1.4) | 361 (7.4) | 6.9 (0.08) |
| Pakistan | r | 0 (0.2) | ~ ~ | 62 (2.7) | 295 (15.3) | 38 (2.8) | 289 (14.4) | 8.0 (0.14) |
| Philippines |  | 0 (0.1) | ~ | 66 (1.8) | 269 (7.8) | 34 (1.8) | 214 (7.2) | 8.1 (0.07) |
| Australia |  | - - | -- | -- | - - | -- | - - | -- |
| England |  | -- | -- | -- | -- | -- | -- | -- |
| Netherlands |  | -- | -- | -- | -- | -- | -- | -- |
| United States |  | -- | -- | -- | -- | -- | -- | -- |
| New Zealand | x | 42 (1.6) | 563 (3.3) | 57 (1.6) | 501 (3.6) | 1 (0.2) | ~~ | 11.4 (0.06) |
| United Arab Emirates | X | 12 (0.4) | 554 (3.2) | 87 (0.4) | 492 (2.9) | 1 (0.1) | ~ | 10.4 (0.02) |
| International Average |  | 17 (0.1) | 557 (0.8) | 75 (0.2) | 488 (0.5) | 8 (0.1) | 414 (1.7) |  |
| Benchmarking Participants |  |  |  |  |  |  |  |  |
| Moscow City, Russian Fed. |  | 39 (1.3) | 615 (2.7) | 60 (1.3) | 582 (2.3) | 0 (0.1) | $\sim \sim$ | 11.4 (0.05) |
| Ontario, Canada | s | 36 (3.1) | 560 (3.9) | 64 (3.1) | 523 (5.4) | 0 (0.1) | $\sim \sim$ | 11.3 (0.09) |
| Quebec, Canada | s | 35 (2.0) | 554 (3.1) | 65 (1.9) | 514 (3.3) | 0 (0.2) | $\sim$ | 11.2 (0.07) |
| Madrid, Spain |  | 32 (1.3) | 552 (2.3) | 66 (1.3) | 514 (2.2) | 3 (0.4) | 472 (9.7) | 10.9 (0.06) |
| Dubai, UAE | s | 19 (0.7) | 593 (3.8) | 81 (0.7) | 553 (2.4) | 0 (0.1) | ~ | 10.8 (0.02) |
| Abu Dhabi, UAE | y | -- | -- | -- | -- | -- | -- | -- |

[^1]
## Average Science Achievement by Home Resources for Learning



TIMSS \& PIRLS


[^0]:    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.
    A dash (-) indicates comparable data not available. A tilde ( $\sim$ ) 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.

[^1]:    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.
    A dash (-) indicates comparable data not available. A tilde ( $\sim$ ) 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.

