

Table SK12-3

Average scores and 10th and 90th percentile scores of 15-year-old students on the PISA mathematics literacy scale and 90th–10th percentile score gaps, by education system: 2018

(Average score and percentile score)

| Education system | Average score | Percentile ^a | | | OECD country and education system |
|----------------------|---------------|-------------------------|-----------------------|--------------------------------|-----------------------------------|
| | | 10th percentile score | 90th percentile score | 90th–10th percentile score gap | |
| OECD average | 489 * | 370 | 605 | 235 | na |
| B-S-J-Z (China) | 591 * | 486 | 691 | 205 * | No |
| Singapore | 569 * | 441 | 684 | 244 | No |
| Macau (China) | 558 * | 452 | 659 | 207 * | No |
| Hong Kong (China) | 551 * | 426 | 667 | 241 | No |
| Chinese Taipei | 531 * | 397 | 656 | 259 * | No |
| Japan | 527 * | 413 | 637 | 224 * | Yes |
| South Korea | 526 * | 393 | 651 | 258 | Yes |
| Estonia | 523 * | 419 | 628 | 209 * | Yes |
| Netherlands | 519 * | 394 | 638 | 243 | Yes |
| Poland | 516 * | 398 | 631 | 233 | Yes |
| Switzerland | 515 * | 391 | 636 | 245 | Yes |
| Canada | 512 * | 392 | 629 | 237 | Yes |
| Denmark | 509 * | 401 | 613 | 213 * | Yes |
| Slovenia | 509 * | 392 | 622 | 230 | Yes |
| Belgium | 508 * | 377 | 628 | 252 | Yes |
| Finland | 507 * | 399 | 612 | 213 * | Yes |
| Sweden | 502 * | 383 | 618 | 236 | Yes |
| United Kingdom | 502 * | 381 | 620 | 239 | Yes |
| Norway | 501 * | 381 | 617 | 236 | Yes |
| Germany | 500 * | 373 | 621 | 248 | Yes |
| Ireland | 500 * | 397 | 599 | 202 * | Yes |
| Czechia | 499 * | 378 | 619 | 241 | Yes |
| Austria | 499 * | 374 | 618 | 244 | Yes |
| Latvia | 496 * | 393 | 599 | 207 * | Yes |
| France | 495 * | 370 | 611 | 241 | Yes |
| Iceland | 495 * | 374 | 609 | 235 | Yes |
| New Zealand | 494 * | 372 | 614 | 242 | Yes |
| Portugal | 492 * | 362 | 614 | 252 | Yes |
| Australia | 491 * | 371 | 609 | 238 | Yes |
| Russia | 488 * | 376 | 597 | 221 * | No |
| Italy | 487 | 363 | 605 | 241 | Yes |
| Slovakia | 486 | 353 | 610 | 257 | Yes |
| Luxembourg | 483 | 353 | 611 | 257 * | Yes |
| Spain | 481 | 365 | 593 | 229 | Yes |
| Lithuania | 481 | 362 | 598 | 236 | Yes |
| Hungary | 481 | 360 | 597 | 237 | Yes |
| United States | 478 | 357 | 598 | 241 | Yes |
| Belarus | 472 | 351 | 592 | 241 | No |
| Malta | 472 | 334 | 599 | 265 * | No |
| Croatia | 464 * | 354 | 577 | 223 * | No |
| Israel | 463 * | 315 | 600 | 285 * | Yes |
| Turkey ^b | 454 * | 343 | 571 | 228 | Yes |
| Ukraine | 453 * | 331 | 573 | 242 | No |
| Greece | 451 * | 334 | 565 | 231 | Yes |

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| Education system | Average score | Percentile ^a | | | OECD country and education system |
|---------------------------------|---------------|-------------------------|-----------------------|--------------------------------|-----------------------------------|
| | | 10th percentile score | 90th percentile score | 90th–10th percentile score gap | |
| Cyprus | 451 * | 325 | 571 | 246 | No |
| Serbia | 448 * | 324 | 576 | 251 | No |
| Malaysia ^b | 440 * | 335 | 550 | 214 * | No |
| Albania | 437 * | 332 | 544 | 211 * | No |
| Bulgaria ^b | 436 * | 311 | 563 | 251 | No |
| United Arab Emirates | 435 * | 299 | 574 | 275 * | No |
| Brunei Darussalam | 430 * | 316 | 555 | 239 | No |
| Romania ^b | 430 * | 310 | 554 | 244 | No |
| Montenegro, Republic of | 430 * | 324 | 538 | 214 * | No |
| Kazakhstan | 423 * | 314 | 535 | 221 * | No |
| Moldova, Republic of | 421 * | 300 | 543 | 244 | No |
| Baku (Azerbaijan) ^c | 420 * | 306 | 535 | 229 | No |
| Thailand ^b | 419 * | 310 | 535 | 226 | No |
| Uruguay | 418 * | 307 | 529 | 221 * | No |
| Chile | 417 * | 311 | 528 | 218 * | Yes |
| Qatar | 414 * | 290 | 544 | 253 | No |
| Mexico ^b | 409 * | 311 | 510 | 199 * | Yes |
| Bosnia and Herzegovina | 406 * | 303 | 514 | 211 * | No |
| Costa Rica ^b | 402 * | 308 | 499 | 191 * | No |
| Peru ^b | 400 * | 293 | 511 | 217 * | No |
| Jordan ^b | 400 * | 291 | 508 | 217 * | No |
| Georgia | 398 * | 286 | 515 | 228 | No |
| North Macedonia | 394 * | 275 | 516 | 241 | No |
| Lebanon | 393 * | 256 | 533 | 276 * | No |
| Colombia ^b | 391 * | 290 | 499 | 209 * | Yes |
| Brazil ^b | 384 * | 277 | 501 | 224 * | No |
| Argentina | 379 * | 272 | 489 | 217 * | No |
| Indonesia | 379 * | 281 | 480 | 198 * | No |
| Saudi Arabia | 373 * | 273 | 475 | 202 * | No |
| Morocco ^b | 368 * | 273 | 469 | 196 * | No |
| Kosovo | 366 * | 269 | 465 | 197 * | No |
| Panama ^b | 353 * | 255 | 454 | 199 * | No |
| Philippines ^b | 353 * | 255 | 456 | 201 * | No |
| Dominican Republic ^b | 325 * | 236 | 417 | 181 * | No |

* $p < 0.05$. Significantly different from the U.S. estimate at the 0.05 level of statistical significance. na = not applicable.

OECD = Organisation for Economic Co-operation and Development; PISA = Program for International Student Assessment.

^a These columns show the threshold (or cut) scores for the 10th percentile (the bottom 10% of students) and 90th percentile (the top 10% of students). The 90th–10th percentile score gap for each education system is the difference between its 90th and 10th percentile scores. The percentile ranges are specific to each education system's distribution of scores, enabling users to compare scores across education systems.^b At least 50% but less than 75% of the 15-year-old population is covered by the PISA sample.^c Less than 50% of the 15-year-old population is covered by the PISA sample.

Note(s):

The scale of mathematics and science scores is 0–1,000. Education systems are ordered by 2018 average score from highest to lowest. The OECD average is the average of the national averages of the OECD member countries, with each country weighted equally. B-S-J-Z (China) refers to the four PISA-participating China provinces: Beijing, Shanghai, Jiangsu, and Zhejiang.

Source(s):

OECD, PISA, 2018. <https://nces.ed.gov/surveys/pisa/pisa2018/index.asp#/math/intlcompare>.

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