



1 (; 7 ë \* ( 1 ( 5 \$ 7 , 2 1

---

# Quantitative Reasoning, Algebra, and Statistics

Sample Questions

The College Board is a mission-driven not-for-profit organization that connects students to college success and opportunity. Founded in 1900, the College Board was created to expand access to higher education. Today, the membership association is made up of over 6,000 of the world's leading education institutions and is dedicated to promoting excellence and equity in education. Each year, the College Board helps more than seven million students prepare for a successful transition to college through programs and services in college readiness and college success — including the SAT® and the Advanced Placement Program®. The organization also serves the education community through research and advocacy on behalf of students, educators, and schools.

For further information, visit [collegeboard.org](http://collegeboard.org).

The Next-Generation Quantitative Reasoning, Algebra, and Statistics placement test is a computer adaptive assessment of test-takers' ability for selected mathematics content. Questions will focus on a range of topics including computing with rational numbers, applying ratios and proportional reasoning, creating linear expressions and equations, graphing and applying linear equations, understanding probability and set notation, and interpreting graphical displays. In addition, questions may assess a student's math ability via computational or fluency skills, conceptual understanding, or the capacity to apply mathematics presented in a context. All questions are multiple choice in format and appear discretely (stand alone) across the assessment. The following knowledge and skill categories are assessed:

- Rational numbers
- Ratio and proportional relationships
- Exponents
- Algebraic expressions
- Linear equations
- Linear applications
- Probability and sets
- Descriptive statistics
- Geometry concepts






—

- 1.
- 2.
- 3.
4. A
5. A
- 6.
- 7.
- 8.
- 9.
10. A
- 11.
12. A
- 13.
- 14.
- 15.
- 16.
- 17.
- 18.
- 19.
- 20.



7. Choice C is correct.



15. Choice B is correct.