

Algebra

Algebra measures the ability to analyze, fluently solve, and create linear equations and inequalities as well as analyze and fluently solve equations and systems of equations using multiple techniques.

Algebra includes the following types of questions:

- Linear equations in 1 variable
- Linear equations in 2 variables
- Linear functions
- Systems of 2 linear equations in 2 variables
- Linear inequalities in 1 or 2 variables

Advanced Math

Advanced Math focuses on the math you'll need to pursue further study in disciplines such as science or economics and for career opportunities in the STEM fields of science, technology, engineering, and math.

The Advanced Math area measures skills and knowledge central for progression to more advanced math courses, including demonstrating an understanding of absolute value, quadratic, exponential, polynomial, rational, radical, and other nonlinear equations.

Advanced Math includes the following types of questions:

- Equivalent expressions
- Nonlinear equations in 1 variable
- Systems of equations in 2 variables
- Nonlinear functions

Problem-Solving and Data Analysis

Problem-Solving and Data Analysis measures the ability to apply quantitative reasoning about ratios, rates, and proportional relationships; understand and apply unit rate; and analyze and interpret one- and two-variable data.

This group of skills is about being quantitatively literate and demonstrating a command of the math that resonates throughout college courses, career training programs, and everyday life.

Problem-Solving and Data Analysis includes the following skills and knowledge testing points:

- Ratios, rates, proportional relationships, and units
- Percentages
- One-variable data: distributions and measures of center and spread
- Two-variable data: models and scatterplots
- Probability and conditional probability
- Inference from sample statistics and margin of error
- Evaluating statistical claims: observational studies and experiments

Geometry and Trigonometry

Geometry and Trigonometry measure the ability to solve problems that focus on the following:

- Area and volume formulas
- Lines, angles, and triangles
- Right triangles and trigonometry
- Circles