

NEXT-GENERATION QUANTITATIVE REASONING, ALGEBRA, AND STATISTICS SKILLS INSIGHT™

Score range: 236 and below

Students scoring in this band can typically demonstrate the following skills and knowledge:

- Identify a graph that represents a set of univariate data
- Fluently add, subtract, and multiply integers
- Identify coordinate points in the xy -plane

Score range: 237–249

Students scoring in this band can typically demonstrate the following additional skills or knowledge:

- Identify a linear equation or inequality that represents a simple context
- For a linear equation in two variables, given one value, calculate or find the other value
- Evaluate a numerical rational or radical expression consisting of integers
- Solve one-step problems involving unit rate, ratio, proportion, and unit conversion

Score range: 250–262

Students scoring in this band can typically demonstrate the following additional skills or knowledge:

- Describe a solution to a system of equations or inequalities algebraically
- Create and use a system of linear equations to solve problems
- Apply rates, ratios, and unit conversions in multistep problems
- Make connections between tables, graphs, verbal descriptions, and algebraic equations representing a linear relationship

Score range: 263–275

Students scoring in this band can typically demonstrate the following additional skills or knowledge:

- Calculate or find the slope and y -intercept of a line that is parallel to a given line
- Evaluate numerical expressions with negative and fractional exponents
- Calculate conditional probability for simple problems
- Interpret the y -intercept of a graph within a context

Score range: 276 and above

Students scoring in this band can typically demonstrate the following additional skills or knowledge:

- Calculate or find the slope and y -intercept of a line that is perpendicular to a given line
- Given a nonlinear function, calculate or find the input given the output
- Compare the means and medians of two data distributions
- Create expressions to represent complex perimeter and area problems
- Evaluate numerical expressions involving absolute value