



EOG Information

Grade 8

ELA Standards Grade 6-8

Standard	Grade 6	Grade 7	Grade 8
Reading for Literature	32–36%	34–38%	31–35%
Reading for Information	41–45%	41–45%	42–46%
Writing	NA	NA	NA
Speaking and Listening	NA	NA	NA
Language	21–25%	19–23%	20–24%
Total	100%	100%	100%

Reading Literature

- ▶ determine theme and analyze its development
- ▶ cite textual evidence to support what the text says and inferences made
- ▶ analyze how dialogue propels the action, reveals aspects of a character, or provokes a decision
- ▶ determine the meaning of words or phrases using context clues
- ▶ compare and contrast two or more texts
- ▶ analyze how different view points create suspense or humor

Reading for Information

- cite textual evidence
- determine a central idea and its development
- provide a summary of a text
- analyze how a text make connections between individuals, ideas, or events
- determine meaning of words using context clues
- analyze the impact of a word choice on meaning and tone
- analyze the structure of a paragraph
- determine an author's point of view or purpose
- evaluate argument and claims

Language

- ▶ use correct punctuation, spelling, and capitalization
- ▶ determine meaning of unknown and multiple-meaning words
- ▶ interpret figures of speech
- ▶ distinguish between connotation and denotation

Sample Question

Which statement summarizes the selection?

- A) The trees that were once only saplings are now full-grown and withered.
- B) The speaker misses his previous home, but realizes it would not be the same if he returned there after many years.
- C) The speaker remembers more of his previous home than he has forgotten.
- D) The thrill of the marketplace no longer satisfies the speaker.

Math Standards Grade 6-8

Domain	Grade 6	Grade 7	Grade 8
Ratios and Proportional Relationships	12–17%	22–27%	NA
The Number System	27–32%	7–12%	2–7%
Expressions and Equations	27–32%	22–27%	27–32%
Functions	NA	NA	22–27%
Geometry	12–17%	22–27%	20–25%
Statistics and Probability	7–12%	12–17%	15–20%
Total	100%	100%	100%

Functions

- ▶ recognize functions in a graph or table
- ▶ compare two functions
- ▶ linear vs. non-linear
- ▶ slope and rate of change
- ▶ write an equation for a given graph or table
- ▶ sketch a graph for a verbal description

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The Number System

- ▶ classify real numbers
- ▶ change repeating decimals to fractions
- ▶ approximate square roots
- ▶ locate rational and irrational numbers on a number line

Expressions and Equations

- ▶ laws of exponents
- ▶ square roots and cube roots
- ▶ scientific notation
- ▶ compare proportional relationships
- ▶ slope-intercept form
- ▶ solve linear equations
- ▶ solve systems of equations

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Geometry

- ▶ rotations, reflections, and dilations
- ▶ congruent figures
- ▶ similar figures
- ▶ angle relationships
- ▶ **Pythagorean Theorem**
- ▶ volume of cones, cylinders, and spheres

Statistics and Probability

- scatter plots
- find the line of best fit for a scatterplot
- interpret the slope and y-intercept of the line of best fit
- two-way tables

Sample Question

The area of the surface of the Atlantic Ocean is approximately 31,830,000 square miles. How is the area written in scientific notation?

- A) 3.183×10^4
- B) 3.183×10^5
- C) 3.183×10^6
- D) 3.183×10^7