

Standards Table: 8th Grade Mathematics

SPIs: Focus Content	
Mathematical Processes	SPI 0806.1.1 Solve problems involving rate/time/distance (i.e., $d = rt$).
	SPI 0806.1.2 Interpret a qualitative graph representing a contextual situation.
	SPI 0806.1.3 Calculates rates involving cost per unit to determine the best buy.
Algebra	SPI 0806.3.1 Find solutions to systems of two linear equations in two variables.
	SPI 0806.3.2 Solve the linear equation $f(x) = g(x)$.
	SPI 0806.3.4 Translate between various representations of a linear function.
	SPI 0806.3.5 Determine the slope of a line from an equation, two given points, a table or a graph.
	SPI 0806.3.6 Analyze the graph of a linear function to find solutions and intercepts.
	SPI 0806.3.7 Identify, compare and contrast functions as linear or nonlinear.
SPIs: Other Content	
Number and Operations	SPI 0806.2.1 Order and compare rational and irrational numbers and locate on the number line.
	SPI 0806.2.2 Identify numbers and square roots as rational or irrational.
	SPI 0806.2.3 Use scientific notation to compute products and quotients.
	SPI 0806.2.4 Solve real-world problems requiring scientific notation.
Geometry and Measurement	SPI 0806.4.1 Use the Pythagorean Theorem to solve contextual problems.
	SPI 0806.4.2 Apply the Pythagorean theorem to find distances between points in the coordinate plane to measure lengths and analyze polygons and polyhedra.
	SPI 0806.4.3 Find measures of the angles formed by parallel lines cut by a transversal.

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Data Analysis, Statistics and Probability	SPI 0806.5.3 Generalize the relationship between two sets of data using scatterplots and lines of best fit.
	SPI 0806.5.4 Recognize misrepresentations of published data in the media.
Dropped SPIs: These SPIs will not appear on the 2013-14 TCAP Achievement Exams	
Algebra	SPI 0806.3.3 Solve and graph linear inequalities in two variables.
Geometry and Measurement	SPI 0806.4.4 Convert between and within the U.S. Customary System and the metric system.
	SPI 0806.4.5 Identify the intersection of two or more geometric figures in the plane.
Data Analysis, Statistics and Probability	SPI 0806.5.1 Calculate probabilities of events for simple experiments with equally probable outcomes.
	SPI 0806.5.2 Use a variety of methods to compute probabilities for compound events (e.g., multiplication, organized lists, tree diagrams, area models).