

# Pre-Algebra

**Your student will learn the following topics in Pre-Algebra Mathematics:**

- ~ Variables and variable expressions
- ~ Perform operations with integers
- ~ Graph points in the coordinate plane
- ~ Solve a problem by looking for a pattern
- ~ Use the Distributive Property
- ~ Write and solve equations
- ~ Write, solve and graph inequalities
- ~ Solve a problem by Try, Test, Revise
- ~ Estimate with decimals
- ~ Solve equations with decimals
- ~ Convert metric units of measure
- ~ Solve a problem by simplifying the problem
- ~ Simplify expressions with exponents
- ~ Simplify fractions
- ~ Write and calculate in scientific notation
- ~ Solve problems by accounting for all possibilities
- ~ Perform operations with fractions
- ~ Solve equations with fractions
- ~ Find powers of products and quotients
- ~ Solve problems by working backward
- ~ Find and use ratios and unit rates
- ~ Write and solve proportions
- ~ Find and use percents
- ~ Solve a problem by making a table
- ~ Write and solve multi-step equations
- ~ Write and solve two-step inequalities

$$4y - x$$

$$1.256$$

$$13 = \frac{x}{3}$$



- ~ Find simple and compound interest
- ~ Solve problems by writing equations
- ~ Determine whether a relation is a function
- ~ Solve linear equations
- ~ Solve systems of linear equations and inequalities
- ~ Solve a problem by graphing
- ~ Use properties of figures to solve problems
- ~ Classify geometric figures
- ~ Construct figures
- ~ Solve a problem by drawing a diagram
- ~ Find the areas of figures
- ~ Find the surface areas of space figures
- ~ Find the volumes of space figures
- ~ Solve a problem by making a model
- ~ Find the square roots of numbers
- ~ Find the missing measures of right triangles
- ~ Use the Distance and Midpoint Formulas
- ~ Solve a problem by writing a proportion
- ~ Use graphs to represent data
- ~ Find theoretical probability and experimental probability
- ~ Find permutations and combinations
- ~ Solve problems by doing simulations
- ~ Use arithmetic and geometric sequences
- ~ Graph nonlinear functions
- ~ Perform operations with polynomials
- ~ Solve a problem using multiple strategies

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