

Ratios, Rates, & Percentages

- Intro to ratios
- Equivalent ratios
- Visualize ratios
- Ratio application
- Intro to rates
- Intro to percents
- Percent, decimal, fraction conversions
- Percent problems
- Percent word problems

Arithmetic Operations

- Adding decimals
- Subtracting decimals
- Adding and subtracting decimals word problems
- Multiplying decimals
- Dividing whole numbers
- Dividing decimals
- Dividing fractions by fractions
- Exponents
- Order of operations

Negative Numbers

- Intro to negative numbers
- Negative decimals & fractions on the number line
- Number opposites
- Comparing negative numbers
- Negative symbol as opposite
- Absolute value
- Coordinate plane

Properties of Numbers

- Properties of numbers
- Whole numbers & integers
- Least common multiple
- Greatest common factor

Variables & Expressions

- Parts of algebraic expressions
- Substitution & evaluating expressions
- Expression value intuition
- Evaluating expressions word problems
- Writing algebraic expressions introduction
- Writing basic algebraic expressions word problems
- Distributive property with variables
- Combining like terms
- Equivalent expressions

Equations & Inequalities Introduction

- Algebraic equations basics
- One-step equations intuition
- One-step addition & subtraction equations
- One-step multiplication and division equations
- Finding mistakes in one-step equations
- One-step equation word problems
- Intro to inequalities with variables
- Dependent and independent variables

Geometry

- Areas of parallelograms
- Areas of triangles
- Area of composite figures
- Geometric solids (3D shapes)
- Volume with fractions
- Surface area
- Polygons on the coordinate plane

Data and Statistics

- Dot plots & frequency tables
- Statistical questions
- Histograms
- Mean and median
- Mean and median challenge problems
- Interquartile range (IQR)
- Box plots
- Mean absolute deviation (MAD)
- Comparing data displays
- Shape of data distributions