

Whole Numbers

- Place Value
- Whole Number Addition and Subtraction
- Whole Number Multiplication and Division
- Operations with Whole Numbers

Number Sense

- Factors and Multiples
- Greatest Common Factor
- Least Common Multiple

Fractions

- Fraction Concepts
- Equivalent Fractions (Simplifying Fractions)
- Comparing and Ordering Fractions

Fraction Operations

- Adding Fractions
- Subtracting Fractions
- Multiplying Fractions
- Dividing Fractions
- Operations with Fractions

Decimals

- Decimal Concepts (including place value)
- Fraction and Decimal Equivalents
- Adding and Subtracting Decimals
- Multiplying and Dividing Decimals
- Operations with Decimals

Ratio and Proportion

- Ratios
- Find Unit Rates
- Unit Conversions
- Proportions
- Similar Figures

Percentages

- Percent Concepts
- Fraction, Decimal, and Percent Equivalents
- Percent and Percent Change
- Calculations with Percent

Integers

- Integer Concepts
- Integer Addition and Subtraction
- Integer Multiplication and Division
- Operations with Integers

Exponents and Roots

- Exponents
- Square and Cube Roots
- Scientific Notation

Patterns

- Patterns
- Arithmetic Sequences - Recursive Form
- Arithmetic Sequences - Closed Form
- Geometric Sequences - Recursive Form
- Geometric Sequences - Closed Form

Algebraic Problem Solving

- Evaluating Expressions - One Step
- Solving One Step Equations
- Evaluating Expressions - Two Steps
- Solving Two Steps Equations
- Evaluating Expressions with the Distributive Property
- Solving Equations with the Distributive Property

Formulas

- Evaluating: Distance
- Solving: Distance
- Evaluating: Simple Interest
- Solving: Simple Interest
- Temperature Conversion
- Literal Formulas

Geometric Figures and Their Properties

- Angles
- Angle Pairs
- Parallel Lines and Transversals
- Classifying Triangles
- Quadrilaterals
- Angles in a Polygon

Perimeter and Area

- Perimeter and Circumference
- Parallelograms
- Triangles
- Trapezoids
- Circles
- Composite Shapes

Geometry in the Coordinate Plane

- Introduction to the Coordinate Plane
- Plotting Points
- Midpoint

Transformations

- Translations
- Reflections
- Rotations
- Composition of Transformations

Right Triangles

- Pythagorean Theorem: Hypotenuse
- Pythagorean Theorem: Legs
- Pythagorean Theorem: Mixed Problems
- Distance Formula
- Trigonometric Ratios: Side Measure
- Trigonometric Ratios: Angle Measure

Probability

- Simple Probability
- Compound Probability
- Making Predictions
- Odds

Data Analysis - Center and Spread

- Measures of Center - Mode
- Measures of Center - Median
- Measures of Center - Mean
- Measures of Spread - Range
- Quartiles

Data Analysis - Displays

- Circle Graphs
- Bar Graphs and Histograms
- Stem-and-Leaf Plots
- Box and Whisker Plots

Surface Area

- Rectangular Prisms
- Cylinders
- Pyramids
- Cones
- Spheres
- Composite Shapes

Volume

- Rectangular Prisms
- Cylinders
- Pyramids and Cones
- Spheres
- Composite Shapes

Linear Functions

- Slope
- Slope-Intercept Form
- Point-Slope Form
- Two-Point Form
- Parallel and Perpendicular Lines

Equivalent Algebraic Expressions

- Distributing and Factoring out a Common Factor
- Combining Like Terms
- Monomials
- Multiplying Polynomials

Algebraic Problem Solving 2

- Solving Equations with Like Terms
- Solving Equations with the Variable on Both Sides
- Solving a System of Linear Equations by Graphing
- Solving a System of Linear Equations Algebraically
- Using the Quadratic Formula