

Place Value

check off all
completed
lessons

- Identifying Place Value to the Billions
- Writing Numbers in Expanded Form
- Rounding Whole Numbers to the Nearest Million, 10 Million, 100 Million and Billion
- Comparing Numbers
- Identifying Exponential and Standard Form of a Number
- Identifying and Finding Number Patterns Using Whole Numbers

Addition, Subtraction, Multiplication, and Division of Whole Numbers

check off all
completed
lessons

- Identifying the Properties of Addition
- Adding Three or More Whole Numbers and Subtracting with Regrouping
- Using the Inverse Operations of Addition and Subtraction to Solve Problems Related to Number Sentences
- Identifying and Using Properties of Multiplication to Solve Problems
- Identifying Special Patterns in Multiplication
- Multiplying Whole Numbers with Two and Three Digits
- Solving Division in Three Forms
- Identifying the Order of Operations Using Multiplication, Addition, and Subtraction
- Identifying the Order of Operations for Multiplication, Addition, and Subtraction Using Parentheses and Exponents

Estimation and Rounding

check off all
completed
lessons

- Estimating Sums and Differences
- Estimating Products
- Estimating Quotients
- Dividing with Remainders and Zeros in the Quotient
- Rounding Decimals to the Nearest Whole Number
- Rounding Decimals to the Nearest Tenth, Hundredth and Thousandth
- Estimating Products of Decimals by Rounding to the Nearest Whole Number
- Rounding Quotients

Number Theory and Simplifying Fractions

check off all
completed
lessons

- Applying the Divisibility Rules for 2, 3, 4, 5, 6, 9 and 10
- Identifying Prime and Composite Numbers
- Expressing a Number as a Product of Prime Numbers
- Identifying the Greatest Common Factor and the Least Common Multiple
- Comparing and Ordering Fractions with Like Denominators
- Writing Fractions in Simplest Form

Number Theory and Simplifying Fractions continued

check off all
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lessons

- Identifying Proper and Improper Fractions
- Writing Mixed Numbers as Improper Fractions
- Writing Remainders as Fractions
- Identifying the Least Common Denominator
- Comparing and Ordering Fractions with Like and Unlike Denominators

Arithmetic of Fractions and Mixed Numbers

check off all
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lessons

- Adding and Subtracting Fractions with Like and Unlike Denominators
- Adding Mixed Numbers with Like Denominators
- Subtracting Mixed Numbers with Like Denominators
- Adding and Subtracting Mixed Numbers with Unlike Denominators
- Multiplying Fractions
- Multiplying Fractions by Simplifying the Problem
- Multiplying Mixed Numbers
- Dividing Fractions
- Dividing Mixed Numbers
- Finding the Fraction of a Given Number
- Identifying the Mathematical Question Given in a Word Problem

Ratios and Proportions

check off all
completed
lessons

- Writing a Ratio to Compare Two Objects
- Identifying and Writing Equal Ratios
- Identifying a Rate to Solve Problems
- Writing and Forming Proportions
- Solving Proportions

Arithmetic of Decimal Numbers

check off all
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lessons

- Identifying Place Value in Decimal Numbers
- Comparing Decimal Numbers
- Identifying and Writing Decimals to the Hundredths and Thousandths
- Ordering Decimals According to the Tenths, Hundredths and Thousandths
- Adding and Subtracting Decimals
- Multiplying Decimals
- Using a One-Digit Divisor, Express the Remainder as a Decimal
- Using a Two-Digit Divisor, Express the Remainder as a Decimal
- Dividing Decimals by Whole Number Divisors
- Performing Mathematical Operations with Decimal Numbers in Application Problems
- Dividing with Decimal Divisors

Arithmetic of Decimal Numbers continued

check off all
completed
lessons

- Dividing with a Decimal Divisor and Dividend
- Using Zeros as Placeholders when Dividing with Decimal Numbers in the Dividend
- Identifying and Using Scientific Notation to Express Large Numbers
- Solving Multiple-Step Problems

Convert between Fractions, Decimals and Percents

check off all
completed
lessons

- Converting Fractions and Mixed Numbers with Denominators of Powers of Ten to Decimals
- Expressing Percent as a Ratio
- Converting Decimals to Fractions and Fractions to Decimals
- Converting Decimals to Percents and Percents to Decimals
- Converting Fractions to Percents and Percents to Fractions
- Converting Fractions to Decimals and Percents

Measurement

check off all
completed
lessons

- Converting Customary Units of Measurement for Length
- Converting Customary Units of Measurement for Capacity and Weight
- Converting Metric Units of Measurement for Length
- Converting Metric Units of Measurement for Mass and Capacity
- Determining Elapsed Time from A.M. to P.M. and P.M. to A.M.
- Identifying Time Zones and Determining Elapsed Time Between Zones
- Finding Squares and Square Roots

Introduction to Data Analysis and Probability

check off all
completed
lessons

- Collecting Data
- Understanding Data in Bar Graphs, Line Graphs, and Stem-and-Leaf Plots
- Interpreting Double Bar Graphs
- Interpreting and Constructing Circle Graphs
- Defining and Calculating the Range and the Mean
- Defining and Calculating the Median and the Mode
- Interpreting Box-and-Whisker Plots
- Classifying Information from a Mathematical Story
- Using Graphs to Solve Story Problems
- Using Pictographs, Bar Graphs and Line Graphs to Solve Problems
- Finding the Probability of Simple Events
- Finding Experimental Probability

Introduction to Geometry

check off all
completed
lessons

- Identifying Basic Terms Used in Geometry
- Measuring and Classifying Angles
- Naming and Classifying Polygons by Characteristics
- Using Ratios to Identify Similar Figures
- Using Proportions to Solve for Unknown Lengths of Sides of Similar Figures
- Identifying and Labeling Triangles According to Their Sides and Angles
- Using Translations, Rotations and Reflections to Transform Shapes

Perimeter, Area, and Volume

check off all
completed
lessons

- Determining the Perimeter of Any Polygon
- Determining the Area of Parallelograms and Triangles
- Defining a Circle
- Finding the Surface Area of a Rectangular Prism
- Finding the Volume of Rectangular and Triangular Prisms
- Finding the Volume of a Cylinder

Arithmetic of Integers

check off all
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lessons

- Identifying Integers and Absolute Value
- Comparing and Ordering Integers
- Adding Integers with Like and Unlike Signs
- Subtracting Integers with Like and Unlike Signs
- Multiplying Integers with Like and Unlike Signs
- Dividing Integers with Like and Unlike Signs

Introduction to Algebra

check off all
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lessons

- Introducing Variables in Algebra
- Converting Fahrenheit and Celsius
- Finding Simple Interest
- Translating Words into Algebra
- Using the Order of Operations in Algebraic Expressions
- Solving Algebraic Equations Using the Inverse Operations of Addition and Subtraction
- Solving Algebraic Equations Using the Inverse Operations of Multiplication and Division
- Calculating Distance, Rate, or Time by Solving Equations
- Solving Algebraic Word Problems
- Graphing the Solution to an Algebraic Equation
- Exploring the Coordinate Plane and Graphing Ordered Pairs