



UNIT I: Rational Numbers and Exponents

Topic 1- Adding and Subtracting Rational Numbers

Lesson 1-1 Rational Numbers, Opposites, and Absolute Value

Lesson 1-2 Adding Integers

Lesson 1-3 Adding Rational Numbers

Lesson 1-4 Subtracting Integers

Lesson 1-5 Subtracting Rational Numbers

Lesson 1-6 Distance on a Number Line

Lesson 1-7 Problem Solving

Topic 1 Review

Topic 1 Assessment

Topic 2- Multiplying and Dividing Rational Numbers

Lesson 2-1 Multiplying Integers

Lesson 2-2 Multiplying Rational Numbers

Lesson 2-3 Dividing Integers

Lesson 2-4 Dividing Rational Numbers

Lesson 2-5 Operations With Rational Numbers

Lesson 2-6 Problem Solving

Topic 2 Review

Topic 2 Assessment

***Topic 3- Decimals and Percent ***

Lesson 3-1 Repeating Decimals
Lesson 3-2 Terminating Decimals
Lesson 3-3 Percents Greater Than 100
Lesson 3-4 Percents Less Than 1
Lesson 3-5 Fractions, Decimals, and Percents
Lesson 3-6 Percent Error
Lesson 3-7 Problem Solving

Topic 3 Review

Topic 3 Assessment

Topic 4- Rational and Irrational Numbers

Lesson 4-1 Expressing Rational Numbers with Decimal Expansions
Lesson 4-2 Exploring Irrational Numbers
Lesson 4-3 Approximating Irrational Numbers
Lesson 4-4 Comparing and Ordering Rational and Irrational Numbers
Lesson 4-5 Problem Solving

Topic 4 Review

Topic 4 Assessment

Topic 5- Integer Exponents

Lesson 5-1 Perfect Squares, Square Roots, and Equations
Lesson 5-2 Perfect Cubes, Cube Roots, and Equations
Lesson 5-3 Exponents and Multiplication
Lesson 5-4 Exponents and Division
Lesson 5-5 Zero and Negative Exponents
Lesson 5-6 Comparing Expressions with Exponents
Lesson 5-7 Problem Solving

Topic 5 Review

Topic 5 Assessment

Topic 6- Scientific Notation

Lesson 6-1 Exploring Scientific Notation
Lesson 6-2 Using Scientific Notation to Describe Very Large Quantities
Lesson 6-3 Using Scientific Notation to Describe Very Small Quantities
Lesson 6-4 Operating with Numbers Expressed in Scientific Notation
Lesson 6-5 Problem Solving

Topic 6 Review

Topic 6 Assessment

UNIT II: Proportionality and Linear Relationships

Topic 7- Ratios and Rates

Lesson 7-1 Equivalent Ratios
Lesson 7-2 Unit Rates
Lesson 7-3 Ratios With Fractions
Lesson 7-4 Unit Rates With Fractions
Lesson 7-5 Problem Solving

Topic 7 Review

Topic 7 Assessment

Topic 8- Proportional Relationships

Lesson 8-1 Proportional Relationships and Tables
Lesson 8-2 Proportional Relationships and Graphs
Lesson 8-3 Constant of Proportionality
Lesson 8-4 Proportional Relationships and Equations
Lesson 8-5 Maps and Scale Drawings
Lesson 8-6 Problem Solving

Topic 8 Review

Topic 8 Assessment

Topic 9- Percents

Lesson 9-1 The Percent Equation
Lesson 9-2 Using the Percent Equation
Lesson 9-3 Simple Interest
Lesson 9-4 Compound Interest
Lesson 9-5 Percent Increase and Decrease
Lesson 9-6 Markups and Markdowns
Lesson 9-7 Problem Solving

Topic 9 Review

Topic 9 Assessment

Topic 10- Equivalent Expressions

Lesson 10-1 Expanding Algebraic Expressions
Lesson 10-2 Factoring Algebraic Expressions
Lesson 10-3 Adding Algebraic Expressions
Lesson 10-4 Subtracting Algebraic Expressions
Lesson 10-5 Problem Solving

Topic 10 Review

Topic 10 Assessment

Topic 11- Equations

Lesson 11-1 Solving Simple Equations
Lesson 11-2 Writing Two-Step Equations
Lesson 11-3 Solving Two-Step Equations
Lesson 11-4 Solving Equations Using the Distributive Property
Lesson 11-5 Problem Solving

Topic 11 Review

Topic 11 Assessment

Topic 12- Linear Equations in One Variable

Lesson 12-1 Solving Two-Step Equations
Lesson 12-2 Solving Equations with Variables on Both Sides
Lesson 12-3 Solving Equations Using the Distributive Property
Lesson 12-4 Solutions – One, None, or Infinitely Many
Lesson 12-5 Problem Solving

Topic 12 Review

Topic 12 Assessment

Topic 13- Inequalities

Lesson 13-1 Solving Inequalities Using Addition or Subtraction
Lesson 13-2 Solving Inequalities Using Multiplication or Division
Lesson 13-3 Solving Two-Step Inequalities
Lesson 13-4 Solving Multi-Step Inequalities
Lesson 13-5 Problem Solving

Topic 13 Review

Topic 13 Assessment

Topic 14- Proportional Relationships, Lines, and Linear Equations

Lesson 14-1 Graphing Proportional Relationships
Lesson 14-2 Linear Equations: $y = mx$
Lesson 14-3 The Slope of a Line
Lesson 14-4 Unit Rates and Slope
Lesson 14-5 The y -intercept of a Line
Lesson 14-6 Linear Equations: $y = mx + b$
Lesson 14-7 Problem Solving

Topic 14 Review

Topic 14 Assessment

UNIT III: Introduction to Sampling and inference

Topic 15- Sampling

Lesson 15-1 Populations and Samples
Lesson 15-2 Estimating a Population
Lesson 15-3 Convenience Sampling
Lesson 15-4 Systematic Sampling
Lesson 15-5 Simple Random Sampling
Lesson 15-6 Comparing Sampling Methods
Lesson 15-7 Problem Solving

Topic 15 Review

Topic 15 Assessment

Topic 16- Comparing two Populations

Lesson 16-1 Statistical Measures
Lesson 16-2 Multiple Populations and Inferences
Lesson 16-3 Using Measures of Center
Lesson 16-4 Using Measures of Variability
Lesson 16-5 Exploring Overlap in Data Sets
Lesson 16-6 Problem Solving

Topic 16 Review

Topic 16 Assessment

Topic 17- Probability Concepts

Lesson 17-1 Likelihood and Probability
Lesson 17-2 Sample Space
Lesson 17-3 Relative Frequency and Experimental Probability
Lesson 17-4 Theoretical Probability
Lesson 17-5 Probability Models
Lesson 17-6 Problem Solving

Topic 17 Review

Topic 17 Assessment

Topic 18- Compound Events

Lesson 18-1 Compound Events
Lesson 18-2 Sample Spaces
Lesson 18-3 Counting Outcomes
Lesson 18-4 Finding Theoretical Probabilities
Lesson 18-5 Simulation With Random Numbers
Lesson 18-6 Finding Probabilities by Simulation
Lesson 18-7 Problem Solving

Topic 18 Review

Topic 18 Assessment

UNIT IV: Creating, Comparing, and Analyzing

Geometric Figures

Topic 19- Angles

Lesson 19-1 Measuring Angles
Lesson 19-2 Adjacent Angles
Lesson 19-3 Complementary Angles
Lesson 19-4 Supplementary Angles
Lesson 19-5 Vertical Angles
Lesson 19-6 Problem Solving

Topic 19 Review

Topic 19 Assessment

Topic 20- Circles

Lesson 20-1 Center, Radius, and Diameter
Lesson 20-2 Circumference of a Circle
Lesson 20-3 Area of a Circle
Lesson 20-4 Relating Circumference and Area of a Circle
Lesson 20-5 Problem Solving

Topic 20 Review

Topic 20 Assessment

Topic 21- 2 & 3-Dimensional Shapes

Lesson 21-1 Geometry Drawing Tools

Lesson 21-2 Drawing Triangles with Given Conditions 1

Lesson 21-3 Drawing Triangles with Given Conditions 2

Lesson 21-4 2-D Slices of Right Rectangular Prisms

Lesson 21-5 2-D Slices of Right Rectangular Pyramids

Lesson 21-6 Problem Solving

Topic 21 Review

Topic 21 Assessment

Topic 22- Surface Area and Volume

Lesson 22-1 Surface Areas of Right Prisms

Lesson 22-2 Volumes of Right Prisms

Lesson 22-3 Surface Areas of Right Pyramids

Lesson 22-4 Volumes of Right Pyramids

Lesson 22-5 Problem Solving

Topic 22 Review

Topic 22 Assessment

Topic 23- Congruence

Lesson 23-1 Translations

Lesson 23-2 Reflections

Lesson 23-3 Rotations

Lesson 23-4 Congruent Figures

Lesson 23-5 Problem Solving

Topic 23 Review

Topic 23 Assessment

Topic 24- Similarity

Lesson 24-1 Dilations

Lesson 24-2 Similar Figures

Lesson 24-3 Relating Similar Triangles and Slope

Lesson 24-4 Problem Solving

Topic 24 Review

Topic 24 Assessment

Topic 25- Reasoning in Geometry

Lesson 25-1 Angles, Lines, and Transversals

Lesson 25-2 Reasoning and Parallel Lines

Lesson 25-3 Interior Angles of Triangles

Lesson 25-4 Exterior Angles of Triangles

Lesson 25-5 Angle-Angle Triangle Similarity

Lesson 25-6 Problem Solving

Topic 25 Review

Topic 25 Assessment

Topic 26- Surface Area and Volume

Lesson 26-1 Surface Areas of Cylinders

Lesson 26-2 Volumes of Cylinders

Lesson 26-3 Surface Areas of Cones

Lesson 26-4 Volumes of Cones

Lesson 26-5 Surface Areas of Spheres

Lesson 26-6 Volumes of Spheres

Lesson 26-7 Problem Solving

Topic 26 Review

Topic 26 Assessment

