

Math 6 delivers instruction, practice, and review designed to develop computational fluency, deepen conceptual understanding, and apply mathematical practices. Course topics include ratios and rates, fraction and decimal operations, and signed numbers. Students continue to build their algebra skills by plotting points in all four quadrants of the coordinate plane and solving equations and inequalities. Geometry topics include area, surface area, and volume, and statistical work features measures of center and variability, box plots, dot plots, and histograms.

The two-semester course is arranged in themed units, each with three to five lessons. Each lesson includes a variety of activities such as direct instruction, application of skills, performance tasks, and formative and summative assessments. Students engage with the subject matter in an interactive, feedback-rich environment as they progress through standards-aligned content and demonstrate their learning through computer- and teacher-scored assignments. By constantly honing the ability to apply their knowledge in abstract and real-world scenarios, students build the depth of knowledge and higher-order skills required to demonstrate their mastery when put to the test.

This course is built to state standards.

Length: Two semesters

## UNIT 1: RATIOS AND RATES

### LESSON 1: RATIOS

#### Study: Ratios

Learn the definition of a ratio. Investigate and compare ratios. Learn how to write equivalent ratios.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkpoint: Ratios

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### Review: Ratios

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### Practice: Ratios

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

#### Quiz: Ratios

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

### LESSON 2: RATES AND UNIT RATES

#### Study: Rates and Unit Rates

Learn how a ratio is a special kind of rate. Find unit rates and use them to solve problems.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkpoint: Rates and Unit Rates

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### Review: Rates and Unit Rates

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Rates and Unit Rates**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

**Quiz: Rates and Unit Rates**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

**LESSON 3: SOLVING PERCENT PROBLEMS****Study: Solving Percent Problems**

Write a percent as a number out of 100. Given a percent and a part or a whole, find the unknown quantity.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkpoint: Solving Percent Problems**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Solving Percent Problems**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Solving Percent Problems**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

**Quiz: Solving Percent Problems**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

**LESSON 4: UNIT CONVERSIONS****Study: Unit Conversions**

Convert measurements from larger to smaller units and vice-versa.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkpoint: Unit Conversions**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Unit Conversions**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Unit Conversions**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

**Quiz: Unit Conversions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

**LESSON 5: WRAP-UP: RATIOS AND RATES****Review: Ratios and Rates**

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 20 mins Scoring: 0 points

**Test (CS): Ratios and Rates**

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 45 mins Scoring: 26 points

## UNIT 2: NUMBER SENSE

### LESSON 1: DIVIDING FRACTIONS

#### Study: Dividing Fractions

Use a visual model to understand fraction division. Find quotients of fractions.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkup: Dividing Fractions

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### Review: Dividing Fractions

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### Practice: Dividing Fractions

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

#### Quiz: Dividing Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

### LESSON 2: SOLVING PROBLEMS BY DIVIDING FRACTIONS

#### Study: Solving Problems by Dividing Fractions

Solve real-world problems by dividing fractions. Write problems to match a fraction division problem.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkup: Solving Problems by Dividing Fractions

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### Review: Solving Problems by Dividing Fractions

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### Practice: Solving Problems by Dividing Fractions

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

#### Quiz: Solving Problems by Dividing Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

### LESSON 3: DIVIDING MULTI-DIGIT WHOLE NUMBERS

#### Study: Dividing Multi-Digit Whole Numbers

Use long division to find quotients. Solve problems by dividing multi-digit whole numbers.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkup: Dividing Multi-Digit Whole Numbers

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### Review: Dividing Multi-Digit Whole Numbers

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Dividing Multi-Digit Whole Numbers**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

**Quiz: Dividing Multi-Digit Whole Numbers**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

**LESSON 4: DECIMAL OPERATIONS**

**Study: Decimal Operations**

Add, subtract, multiply, and divide decimal numbers. Use decimal number operations to solve real-world problems.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkpoint: Decimal Operations**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Decimal Operations**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Decimal Operations**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

**Quiz: Decimal Operations**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

**LESSON 5: GREATEST COMMON FACTOR AND LEAST COMMON MULTIPLE**

**Study: Greatest Common Factor and Least Common Multiple**

Learn the definitions of greatest common factor (GCF) and least common multiple (LCM). Find GCFs and LCMs and use them to solve problems.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkpoint: Greatest Common Factor and Least Common Multiple**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Greatest Common Factor and Least Common Multiple**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Greatest Common Factor and Least Common Multiple**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

**Quiz: Greatest Common Factor and Least Common Multiple**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

**LESSON 6: WRAP-UP: NUMBER SENSE**

**Review: Number Sense**

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 20 mins Scoring: 0 points

### Test (CS): Number Sense

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 45 mins Scoring: 34 points

## UNIT 3: SIGNED NUMBERS

### LESSON 1: SIGNED NUMBERS

#### Study: Signed Numbers

Use positive and negative numbers to represent quantities in the real world. Identify the opposite of a number, and plot opposites on a number line.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkpoint: Signed Numbers

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### Review: Signed Numbers

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### Practice: Signed Numbers

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

#### Quiz: Signed Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

### LESSON 2: INEQUALITIES AND COMPARISON

#### Study: Inequalities and Comparison

Understand that the farther to the left on a number line a quantity is, the less it is. Write inequalities to compare numbers plotted on a number line and to compare real-world quantities.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkpoint: Inequalities and Comparison

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### Review: Inequalities and Comparison

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### Practice: Inequalities and Comparison

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

#### Quiz: Inequalities and Comparison

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

### LESSON 3: ABSOLUTE VALUE

#### Study: Absolute Value

Understand that the absolute value of a number is its distance from 0 on a number line. See that the absolute value of a number represents its magnitude (size), and compare magnitudes of signed numbers.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkpoint: Absolute Value**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Absolute Value**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Absolute Value**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

**Quiz: Absolute Value**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

**LESSON 4: WRAP-UP: SIGNED NUMBERS****Review: Signed Numbers**

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 20 mins Scoring: 0 points

**Test (CS): Signed Numbers**

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 45 mins Scoring: 22 points

**UNIT 4: THE COORDINATE PLANE****LESSON 1: PLOTTING POINTS IN THE COORDINATE PLANE****Study: Plotting Points in the Coordinate Plane**

Plot positive and negative rational numbers on a coordinate plane.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkpoint: Plotting Points in the Coordinate Plane**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Plotting Points in the Coordinate Plane**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Plotting Points in the Coordinate Plane**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

**Quiz: Plotting Points in the Coordinate Plane**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

**LESSON 2: QUADRANTS AND AXES****Study: Quadrants and Axes**

Learn the four quadrants of a coordinate plane. Locate ordered pairs in quadrants and on axes.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkpoint: Quadrants and Axes**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Quadrants and Axes**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Quadrants and Axes**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

**Quiz: Quadrants and Axes**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

**LESSON 3: USING GRAPHS TO SOLVE PROBLEMS****Study: Using Graphs to Solve Problems**

Find vertical and horizontal distances between points on a coordinate plane. Plot points to draw geometric figures.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkup: Using Graphs to Solve Problems**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Using Graphs to Solve Problems**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Using Graphs to Solve Problems**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

**Quiz: Using Graphs to Solve Problems**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

**LESSON 4: WRAP-UP: THE COORDINATE PLANE****Review: The Coordinate Plane**

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 20 mins Scoring: 0 points

**Test (CS): The Coordinate Plane**

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 45 mins Scoring: 20 points

**UNIT 5: NUMERICAL AND ALGEBRAIC EXPRESSIONS****LESSON 1: EXPONENTS****Study: Exponents**

Learn the definitions of exponents and bases. Write exponential expressions and use them to represent real-world situations involving repeated multiplication.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkup: Exponents**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Exponents**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Exponents**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

**Quiz: Exponents**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

**LESSON 2: WRITING EXPRESSIONS****Study: Writing Expressions**

Write mathematical expressions to describe quantities.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkup: Writing Expressions**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Writing Expressions**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Writing Expressions**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

**Quiz: Writing Expressions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

**LESSON 3: UNDERSTANDING PARTS OF EXPRESSIONS****Study: Understanding Parts of Expressions**

Learn the definitions of terms such as factor and coefficient. Use these terms and other mathematical language to describe and interpret parts of expressions.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkup: Understanding Parts of Expressions**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Understanding Parts of Expressions**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Understanding Parts of Expressions**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

**Quiz: Understanding Parts of Expressions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

**LESSON 4: EVALUATING EXPRESSIONS****Study: Evaluating Expressions**

Use the order of operations to evaluate expressions. Evaluate expressions by substituting given values for variables.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkup: Evaluating Expressions**



Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Evaluating Expressions**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Evaluating Expressions**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

**Quiz: Evaluating Expressions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

**LESSON 5: EQUIVALENT EXPRESSIONS**

**Study: Equivalent Expressions**

Understand what it means for two expressions to be equivalent. Use mathematical properties to write and identify equivalent expressions.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkup: Equivalent Expressions**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Equivalent Expressions**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Equivalent Expressions**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

**Quiz: Equivalent Expressions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

**LESSON 6: WRAP-UP: NUMERICAL AND ALGEBRAIC EXPRESSIONS**

**Review: Numerical and Algebraic Expressions**

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 20 mins Scoring: 0 points

**Test (CS): Numerical and Algebraic Expressions**

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 45 mins Scoring: 28 points

**UNIT 6: SEMESTER WRAP UP**

**LESSON 1: SEMESTER WRAP UP**

**Review: Semester Review**

Prepare for the semester exam by reviewing key concepts and skills.

Duration: 0 hrs 20 mins Scoring: 0 points

**Exam: Semester Exam**

Take a computer-scored exam to demonstrate your mastery of concepts and skills covered in this semester.

Duration: 0 hrs 50 mins Scoring: 110 points

## UNIT 7: EQUATIONS AND INEQUALITIES, PART 1

### LESSON 1: SOLUTIONS OF EQUATIONS AND INEQUALITIES

#### Study: Solutions of Equations and Inequalities

Learn that the solution to a mathematical sentence is a value that makes the sentence true. Use substitution to test for solutions to equations and inequalities.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkup: Solutions of Equations and Inequalities

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### Review: Solutions of Equations and Inequalities

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### Practice: Solutions of Equations and Inequalities

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

#### Quiz: Solutions of Equations and Inequalities

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

### LESSON 2: WRITING EXPRESSIONS TO SOLVE PROBLEMS

#### Study: Writing Expressions to Solve Problems

Use variables to represent unknown quantities. Write expressions with variables to model mathematical and real-world statements.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkup: Writing Expressions to Solve Problems

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### Review: Writing Expressions to Solve Problems

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### Practice: Writing Expressions to Solve Problems

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

#### Quiz: Writing Expressions to Solve Problems

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

### LESSON 3: SOLVING ADDITION EQUATIONS

#### Study: Solving Addition Equations

Solve one-step addition (and subtraction) equations by using inverse operations.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkup: Solving Addition Equations

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### Review: Solving Addition Equations

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Solving Addition Equations**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

**Quiz: Solving Addition Equations**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

**LESSON 4: SOLVING MULTIPLICATION EQUATIONS**

**Study: Solving Multiplication Equations**

Solve one-step multiplication (and division) equations by using inverse operations.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkup: Solving Multiplication Equations**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Solving Multiplication Equations**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Solving Multiplication Equations**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

**Quiz: Solving Multiplication Equations**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

**LESSON 5: WRAP-UP: EQUATIONS AND INEQUALITIES, PART 1**

**Review: Equations and Inequalities, Part 1**

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 20 mins Scoring: 0 points

**Test (CS): Equations and Inequalities, Part 1**

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 45 mins Scoring: 24 points

**UNIT 8: EQUATIONS AND INEQUALITIES, PART 2**

**LESSON 1: SOLVING INEQUALITIES**

**Study: Solving Inequalities**

Use your equation-solving strategies to solve inequalities. Write inequalities to represent problem situations.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkup: Solving Inequalities**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Solving Inequalities**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Solving Inequalities**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

### Quiz: Solving Inequalities

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

## LESSON 2: INDEPENDENT AND DEPENDENT VARIABLES

### Study: Independent and Dependent Variables

Learn the definitions of independent and dependent variables. Understand how to identify which variable is independent and which is dependent for a given situation.

Duration: 0 hrs 40 mins Scoring: 0 points

### Checkup: Independent and Dependent Variables

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

### Review: Independent and Dependent Variables

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### Practice: Independent and Dependent Variables

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

### Quiz: Independent and Dependent Variables

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

## LESSON 3: MULTIPLE REPRESENTATIONS: TABLES, GRAPHS, AND EQUATIONS

### Study: Multiple Representations: Tables, Graphs, and Equations

Understand that tables, graphs, and equations are different ways to show how variables are related. Learn strengths and weaknesses of each representation, and see how to use one representation to create others.

Duration: 0 hrs 40 mins Scoring: 0 points

### Checkup: Multiple Representations: Tables, Graphs, and Equations

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

### Review: Multiple Representations: Tables, Graphs, and Equations

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### Practice: Multiple Representations: Tables, Graphs, and Equations

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

### Quiz: Multiple Representations: Tables, Graphs, and Equations

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

## LESSON 4: WRAP-UP: EQUATIONS AND INEQUALITIES, PART 2

### Review: Equations and Inequalities, Part 2

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 20 mins Scoring: 0 points

### Test (CS): Equations and Inequalities, Part 2

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 45 mins Scoring: 20 points

## UNIT 9: GEOMETRY

### LESSON 1: AREA

#### Study: Area

Find areas of triangles and irregular polygons. Use area to solve real-world problems.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkup: Area

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### Review: Area

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### Practice: Area

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

#### Quiz: Area

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

### LESSON 2: VOLUME

#### Study: Volume

Find volumes of rectangular prisms to solve real-world and mathematical problems.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkup: Volume

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### Review: Volume

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### Practice: Volume

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

#### Quiz: Volume

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

### LESSON 3: COORDINATE GEOMETRY

#### Study: Coordinate Geometry

Draw geometric figures on a coordinate plane by plotting and joining vertices. Find lengths of horizontal or vertical sides by subtracting coordinates.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkup: Coordinate Geometry

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### Review: Coordinate Geometry

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Coordinate Geometry**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

**Quiz: Coordinate Geometry**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

**LESSON 4: SOLID FIGURES****Study: Solid Figures**

Use nets to show the surfaces of solid figures. Identify a solid figure from its net. Find surface areas by using nets.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkup: Solid Figures**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Solid Figures**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Solid Figures**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

**Quiz: Solid Figures**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

**LESSON 5: WRAP-UP: GEOMETRY****Review: Geometry**

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 20 mins Scoring: 0 points

**Test (CS): Geometry**

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 45 mins Scoring: 24 points

**UNIT 10: INTRODUCTION TO STATISTICS****LESSON 1: STATISTICAL QUESTIONS AND DATA DISTRIBUTIONS****Study: Statistical Questions and Data Distributions**

Learn how to identify statistical questions. Using dot plots, describe data sets by their center, spread, and shape.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkup: Statistical Questions and Data Distributions**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

**Review: Statistical Questions and Data Distributions**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

**Practice: Statistical Questions and Data Distributions**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

### **Quiz: Statistical Questions and Data Distributions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

## **LESSON 2: MEASURES OF CENTER AND VARIABILITY**

### **Study: Measures of Center and Variability**

Learn the definitions of the mean and range of a data set. Find means and ranges.

Duration: 0 hrs 40 mins Scoring: 0 points

### **Checkup: Measures of Center and Variability**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

### **Review: Measures of Center and Variability**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### **Practice: Measures of Center and Variability**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

### **Quiz: Measures of Center and Variability**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

## **LESSON 3: BOX PLOTS**

### **Study: Box Plots**

Find medians, quartiles, and extreme values for data sets. Use these key values to make box plots.

Duration: 0 hrs 40 mins Scoring: 0 points

### **Checkup: Box Plots**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

### **Review: Box Plots**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### **Practice: Box Plots**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

### **Quiz: Box Plots**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

## **LESSON 4: DOT PLOTS AND HISTOGRAMS**

### **Study: Dot Plots and Histograms**

Make dot plots and histograms of data sets. Decide which data display to use in a given situation.

Duration: 0 hrs 40 mins Scoring: 0 points

### **Checkup: Dot Plots and Histograms**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

### **Review: Dot Plots and Histograms**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### **Practice: Dot Plots and Histograms**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

### **Quiz: Dot Plots and Histograms**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

## **LESSON 5: WRAP-UP: INTRODUCTION TO STATISTICS**

### **Review: Introduction to Statistics**

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 20 mins Scoring: 0 points

### **Test (CS): Introduction to Statistics**

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 45 mins Scoring: 26 points

## **UNIT 11: SUMMARIZING DATA**

### **LESSON 1: COLLECTING DATA**

#### **Study: Collecting Data**

Learn how to collect and summarize statistical data. Understand the importance of the number of observations and the units chosen for the usefulness of the data.

Duration: 0 hrs 40 mins Scoring: 0 points

#### **Checkup: Collecting Data**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### **Review: Collecting Data**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### **Practice: Collecting Data**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

#### **Quiz: Collecting Data**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

### **LESSON 2: SUMMARIZING DATA USING MEASURES OF CENTER AND VARIABILITY**

#### **Study: Summarizing Data Using Measures of Center and Variability**

Understand mean, median, interquartile range, and mean absolute deviation as measures of center and variability, and use them to describe data sets. Identify patterns in data.

Duration: 0 hrs 40 mins Scoring: 0 points

#### **Checkup: Summarizing Data Using Measures of Center and Variability**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

#### **Review: Summarizing Data Using Measures of Center and Variability**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

#### **Practice: Summarizing Data Using Measures of Center and Variability**



Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

### **Quiz: Summarizing Data Using Measures of Center and Variability**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

## **LESSON 3: CHOOSING APPROPRIATE MEASURES TO SUMMARIZE DATA SETS**

### **Study: Choosing Appropriate Measures to Summarize Data Sets**

Understand how extreme data values impact the measures of center and spread, and how to choose the measures to use when describing a data set.

Duration: 0 hrs 40 mins Scoring: 0 points

### **Checkup: Choosing Appropriate Measures to Summarize Data Sets**

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

### **Review: Choosing Appropriate Measures to Summarize Data Sets**

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

### **Practice: Choosing Appropriate Measures to Summarize Data Sets**

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

### **Quiz: Choosing Appropriate Measures to Summarize Data Sets**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

## **LESSON 4: WRAP-UP: SUMMARIZING DATA**

### **Review: Summarizing Data**

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 20 mins Scoring: 0 points

### **Test (CS): Summarizing Data**

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 45 mins Scoring: 22 points

## **UNIT 12: SEMESTER WRAP UP**

### **LESSON 1: SEMESTER WRAP UP**

#### **Review: Semester Review**

Prepare for the semester exam by reviewing key concepts and skills.

Duration: 0 hrs 20 mins Scoring: 0 points

#### **Exam: Semester Exam**

Take a computer-scored exam to demonstrate your mastery of concepts and skills covered in this semester.

Duration: 0 hrs 50 mins Scoring: 116 points