

Mathematics Grade 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: NUMBER SENSE

LESSON 1: DIVIDING FRACTIONS

Study: Dividing Fractions

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

Duration: 1 hr 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: 10 points

Quiz: Dividing Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 mins Scoring: 10 points

LESSON 2: SOLVING PROBLEMS BY DIVIDING FRACTIONS

Study: Solving Problems by Dividing Fractions

Solve real-world problems by dividing fractions and interpreting their quotients. Write story problems to match fraction division problems, and use fraction models to illustrate solutions to story problems.

Duration: 1 hr 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: 10 points

Quiz: Solving Problems by Dividing Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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 and interpreting their quotients and remainders.

Duration: 1 hr Scoring: 0 points

Checkpoint: 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: 10 points

Quiz: Dividing Multi-Digit Whole Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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: 1 hr 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: 10 points

Quiz: Decimal Operations

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 mins Scoring: 10 points

LESSON 5: GREATEST COMMON FACTOR AND LEAST COMMON MULTIPLE

Study: Greatest Common Factor and Least Common Multiple

Learn how to find the greatest common factor (GCF) and least common multiple (LCM) of two whole numbers. Find GCFs and LCMs, and use them to solve problems.

Duration: 1 hr 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: 10 points

Quiz: Greatest Common Factor and Least Common Multiple

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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 30 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: 30 points

UNIT 2: SIGNED NUMBERS

LESSON 1: SIGNED NUMBERS

Study: Signed Numbers

Classify numbers using a Venn Diagram. 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: 1 hr 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: 10 points

Quiz: Signed Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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: 1 hr 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: 10 points

Quiz: Inequalities and Comparison

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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: 1 hr Scoring: 0 points

Checkup: 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: 10 points

Quiz: Absolute Value

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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 30 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: 30 points

UNIT 3: THE COORDINATE PLANE

LESSON 1: PLOTTING POINTS ON THE COORDINATE PLANE

Study: Plotting Points on the Coordinate Plane

Plot positive and negative rational numbers on horizontal and vertical number lines as well as on a coordinate plane.

Duration: 1 hr Scoring: 0 points

Checkup: Plotting Points on the Coordinate Plane

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Plotting Points on the Coordinate Plane

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Plotting Points on the Coordinate Plane

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 10 points

Quiz: Plotting Points on the Coordinate Plane

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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: 1 hr Scoring: 0 points

Checkup: 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: 10 points

Quiz: Quadrants and Axes

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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 and solve real-world problems.

Duration: 1 hr 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: 10 points

Quiz: Using Graphs to Solve Problems

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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 30 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: 30 points

UNIT 4: RATIOS AND UNIT RATES

LESSON 1: RATIOS

Study: Ratios

Learn the definition of a ratio. Investigate and compare ratios. Learn how to write equivalent ratios, and plot paired values on a coordinate plane.

Duration: 1 hr 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: 10 points

Quiz: Ratios

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 mins Scoring: 10 points

LESSON 2: RATES AND UNIT RATES

Study: Rates and Unit Rates

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

Duration: 1 hr 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: 10 points

Quiz: Rates and Unit Rates

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 mins Scoring: 10 points

LESSON 3: SOLVING PERCENT PROBLEMS

Study: Percents

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

Duration: 1 hr 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: 10 points

Quiz: Solving Percent Problems

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 mins Scoring: 10 points

LESSON 4: UNIT CONVERSIONS

Study: Unit Conversions

Convert measurements from larger to smaller units and vice-versa, using both proportional reasoning and a conversion factor.

Duration: 1 hr Scoring: 0 points

Checkup: 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: 10 points

Quiz: Unit Conversions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 mins Scoring: 10 points

LESSON 5: WRAP-UP: RATIOS AND UNIT RATES

Review: Ratios and Rates

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

Duration: 0 hrs 30 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: 30 points

UNIT 5: NUMERICAL AND ALGEBRAIC EXPRESSIONS

LESSON 1: EXPONENTS

Study: Exponents

Learn the definitions of *exponent* and *base*. Write and evaluate exponential expressions, and use them to represent real-world situations involving repeated multiplication.

Duration: 1 hr 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: 10 points

Quiz: Exponents

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 mins Scoring: 10 points

LESSON 2: WRITING EXPRESSIONS

Study: Writing Expressions

Write mathematical expressions to describe quantities. Translate real-world relationships into mathematical expressions.

Duration: 1 hr Scoring: 0 points

Checkpoint: 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: 10 points

Quiz: Writing Expressions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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: 1 hr Scoring: 0 points

Checkpoint: 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: 10 points

Quiz: Understanding Parts of Expressions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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: 1 hr Scoring: 0 points

Checkpoint: 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: 10 points

Quiz: Evaluating Expressions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 mins Scoring: 10 points

LESSON 5: EQUIVALENT EXPRESSIONS

Study: Equivalent Expressions

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

Duration: 1 hr 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: 10 points

Quiz: Equivalent Expressions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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 30 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: 30 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 30 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: 1 hr 15 mins Scoring: 50 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: 1 hr 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: 10 points

Quiz: Solutions of Equations and Inequalities

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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: 1 hr Scoring: 0 points

Checkup: Writing Expressions to Solve Problems

Check your understanding of the lesson.

Duration: 0 hrs 20 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: 10 points

Quiz: Writing Expressions to Solve Problems

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 mins Scoring: 10 points

LESSON 3: SOLVING EQUATIONS USING ADDITION AND SUBTRACTION

Study: Solving Equations Using Addition and Subtraction

Use inverse operations to solve one-step addition and subtraction equations.

Duration: 1 hr Scoring: 0 points

Checkup: Solving Equations Using Addition and Subtraction

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Solving Equations Using Addition and Subtraction

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Solving Equations Using Addition and Subtraction

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 10 points

Quiz: Solving Equations Using Addition and Subtraction

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 mins Scoring: 10 points

LESSON 4: SOLVING EQUATIONS USING MULTIPLICATION AND DIVISION

Study: Solving Equations Using Multiplication and Division

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

Duration: 1 hr Scoring: 0 points

Checkup: Solving Equations Using Multiplication and Division

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Solving Equations Using Multiplication and Division

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Solving Equations Using Multiplication and Division

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 10 points

Quiz: Solving Equations Using Multiplication and Division

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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 30 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: 30 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: 1 hr 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: 10 points

Quiz: Solving Inequalities

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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: 1 hr 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: 10 points

Quiz: Independent and Dependent Variables

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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: 1 hr 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: 10 points

Quiz: Multiple Representations: Tables, Graphs, and Equations

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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 30 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: 30 points

UNIT 9: GEOMETRY

LESSON 1: AREA

Study: Area

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

Duration: 1 hr 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: 10 points

Quiz: Area

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 mins Scoring: 10 points

LESSON 2: VOLUME

Study: Volume

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

Duration: 1 hr 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: 10 points

Quiz: Volume

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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: 1 hr 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: 10 points

Quiz: Coordinate Geometry

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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: 1 hr 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: 10 points

Quiz: Solid Figures

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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 30 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: 30 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: 1 hr Scoring: 0 points

Checkpoint: 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: 10 points

Quiz: Statistical Questions and Data Distributions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 mins Scoring: 10 points

LESSON 2: MEASURES OF CENTER AND VARIABILITY

Study: Measures of Center and Variability

Learn the definitions of *mean*, *median*, and *range*. Find means, medians, and ranges of data sets.

Duration: 1 hr Scoring: 0 points

Checkpoint: 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: 10 points

Quiz: Measures of Center and Variability

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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: 1 hr Scoring: 0 points

Checkpoint: 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: 10 points

Quiz: Box Plots

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 mins Scoring: 10 points

LESSON 4: DOT PLOTS, HISTOGRAMS, AND STEM-AND-LEAF PLOTS

Study: Dot Plots, Histograms, and Stem-and-Leaf Plots

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

Duration: 1 hr Scoring: 0 points

Checkpoint: Dot Plots, Histograms, and Stem-and-Leaf Plots

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Dot Plots, Histograms, and Stem-and-Leaf Plots

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Dot Plots, Histograms, and Stem-and-Leaf Plots

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 10 points

Quiz: Dot Plots, Histograms, and Stem-and-Leaf Plots

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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 30 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: 30 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: 1 hr Scoring: 0 points

Checkpoint: 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: 10 points

Quiz: Collecting Data

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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: 1 hr Scoring: 0 points

Checkpoint: 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: 10 points

Quiz: Summarizing Data Using Measures of Center and Variability

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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: 1 hr Scoring: 0 points

Checkpoint: 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: 10 points

Quiz: Choosing Appropriate Measures to Summarize Data Sets

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 15 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 30 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: 30 points

UNIT 12: SEMESTER 2 EXAM

LESSON 1: SEMESTER WRAP UP

Review: Semester Review

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

Duration: 0 hrs 30 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: 1 hr 15 mins Scoring: 50 points