

Grade 7 Mathematics delivers instruction, practice, and review designed to develop computational fluency, deepen conceptual understanding, and apply mathematical practices. Throughout the course, students gain a deep understanding of proportions and their use in solving problems. They extend their fluency with operations on rational numbers and translate among different forms of rational numbers. Algebra topics include simplifying and rewriting algebraic expressions and solving more complex equations and inequalities. Students also sketch geometric figures and explore scale drawings, investigate circle properties and angle relationships, and deepen their understanding of area, volume, and surface area. They see how statistics uses sample data to make predictions about populations and compare data from different data sets. Students gain a fundamental understanding of probability and explore different ways to find or estimate probabilities.

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: RATE, RATIO, AND PROPORTION

LESSON 1: UNIT RATES

Study: Unit Rates

Compute unit rates and use them to solve problems.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Unit Rates

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Unit Rates

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Unit Rates

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Unit Rates

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 2: IDENTIFYING PROPORTIONAL RELATIONSHIPS

Study: Identifying Proportional Relationships

Know how to identify proportional quantities by looking for constant ratios and by graphing.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Identifying Proportional Relationships

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Identifying Proportional Relationships

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Identifying Proportional Relationships

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Identifying Proportional Relationships

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 3: ANALYZING PROPORTIONAL RELATIONSHIPS**Study: Analyzing Proportional Relationships**

Understand the importance of the constant of proportionality. Find the constant of proportionality from a table, a graph, or an equation.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkup: Analyzing Proportional Relationships

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Analyzing Proportional Relationships

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Analyzing Proportional Relationships

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Analyzing Proportional Relationships

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 4: REPRESENTING PROPORTIONAL RELATIONSHIPS**Study: Representing Proportional Relationships**

Interpret proportional relationships from a graph. Know how to interpret points on the graph of a proportion.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkup: Representing Proportional Relationships

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Representing Proportional Relationships

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Representing Proportional Relationships

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Representing Proportional Relationships

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 5: USING PROPORTIONS TO SOLVE PROBLEMS**Study: Using Proportions to Solve Problems**

Use proportions to solve problems involving percents. Find a percent of increase or decrease, and calculate taxes and discounts.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Using Proportions to Solve Problems

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Using Proportions to Solve Problems

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Using Proportions to Solve Problems

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Using Proportions to Solve Problems

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 6: WRAP-UP: RATE, RATIO, AND PROPORTION

Review: Rate, Ratio, and Proportion

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

Duration: 0 hrs 20 mins Scoring: 0 points

Test (CS): Rate, Ratio, and Proportion

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

Duration: 0 hrs 45 mins Scoring: 32 points

UNIT 2: ADDITION AND SUBTRACTION OF RATIONAL NUMBERS

LESSON 1: ADDING RATIONAL NUMBERS

Study: Adding Rational Numbers

Add positive and negative rational numbers. Use a number line to show addition of signed numbers.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Adding Rational Numbers

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Adding Rational Numbers

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Adding Rational Numbers

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Adding Rational Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 2: SUBTRACTING RATIONAL NUMBERS

Study: Subtracting Rational Numbers

See that subtracting a number is the same as adding its opposite. Use subtraction of rational numbers, including signed numbers, to solve problems.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Subtracting Rational Numbers

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Subtracting Rational Numbers

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Subtracting Rational Numbers

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Subtracting Rational Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 3: USING PROPERTIES TO ADD AND SUBTRACT RATIONAL NUMBERS**Study: Using Properties to Add and Subtract Rational Numbers**

Use the commutative, associative, and distributive properties in addition problems. Apply these properties to make problems simpler, rewriting subtraction as addition of the opposite when necessary.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Using Properties to Add and Subtract Rational Numbers

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Using Properties to Add and Subtract Rational Numbers

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Using Properties to Add and Subtract Rational Numbers

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Using Properties to Add and Subtract Rational Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 4: WRAP-UP: ADDITION AND SUBTRACTION OF RATIONAL NUMBERS**Review: Addition and Subtraction of Rational Numbers**

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

Duration: 0 hrs 20 mins Scoring: 0 points

Test (CS): Addition and Subtraction of Rational Numbers

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

Duration: 0 hrs 45 mins Scoring: 20 points

UNIT 3: MULTIPLICATION AND DIVISION OF RATIONAL NUMBERS**LESSON 1: MULTIPLYING RATIONAL NUMBERS****Study: Multiplying Rational Numbers**

Discover the rules for multiplying signed numbers. Solve problems involving multiplication of rational numbers. Given an equation, write a problem it could model.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Multiplying Rational Numbers

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Multiplying Rational Numbers

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Multiplying Rational Numbers

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Multiplying Rational Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 2: DIVIDING RATIONAL NUMBERS

Study: Dividing Rational Numbers

Learn that the sign rules for division are the same as the rules for multiplication. Understand how to divide fractions, and that division by 0 is undefined.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Dividing Rational Numbers

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Dividing Rational Numbers

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Dividing Rational Numbers

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Dividing Rational Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 3: USING PROPERTIES TO MULTIPLY AND DIVIDE RATIONAL NUMBERS

Study: Using Properties to Multiply and Divide Rational Numbers

Learn how to use properties when multiplying and dividing signed numbers. See how to rewrite division as multiplication by the reciprocal. Apply properties to make multiplication simpler.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Using Properties to Multiply and Divide Rational Numbers

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Using Properties to Multiply and Divide Rational Numbers

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Using Properties to Multiply and Divide Rational Numbers

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Using Properties to Multiply and Divide Rational Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 4: EXPRESSING RATIONAL NUMBERS IN DECIMAL FORM

Study: Expressing Rational Numbers in Decimal Form

Use division to rewrite fractions as decimals. See that this division may result in a repeating decimal, and learn how to write repeating decimals. Understand that some numbers are not rational.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkup: Expressing Rational Numbers in Decimal Form

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Expressing Rational Numbers in Decimal Form

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Expressing Rational Numbers in Decimal Form

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Expressing Rational Numbers in Decimal Form

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 5: USING OPERATIONS ON RATIONAL NUMBERS TO SOLVE PROBLEMS

Study: Using Operations on Rational Numbers to Solve Problems

Use the order of operations to simplify expressions with rational numbers. Solve real-world and mathematical problems involving multiplication, division, addition, and subtraction.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkup: Using Operations on Rational Numbers to Solve Problems

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Using Operations on Rational Numbers to Solve Problems

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Using Operations on Rational Numbers to Solve Problems

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Using Operations on Rational Numbers to Solve Problems

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 6: WRAP-UP: MULTIPLICATION AND DIVISION OF RATIONAL NUMBERS

Review: Multiplication and Division of Rational Numbers

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

Duration: 0 hrs 20 mins Scoring: 0 points

Test (CS): Multiplication and Division of Rational Numbers

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

Duration: 0 hrs 45 mins Scoring: 34 points

UNIT 4: FOUNDATIONS OF ALGEBRA

LESSON 1: SIMPLIFYING AND REWRITING ALGEBRAIC EXPRESSIONS

Study: Simplifying and Rewriting Algebraic Expressions

Learn how to simplify algebraic expressions by combining like terms. Add, subtract, factor, and expand linear expressions.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Simplifying and Rewriting Algebraic Expressions

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Simplifying and Rewriting Algebraic Expressions

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Simplifying and Rewriting Algebraic Expressions

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Simplifying and Rewriting Algebraic Expressions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 2: SOLVING MULTI-STEP PROBLEMS WITH RATIONAL NUMBERS

Study: Solving Multi-Step Problems with Rational Numbers

Solve algebraic and real-world multi-step problems. Problems include mixed numbers, decimals, and signed numbers, and require the correct use of mathematical properties and the order of operations.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Solving Multi-Step Problems with Rational Numbers

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Solving Multi-Step Problems with Rational Numbers

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Solving Multi-Step Problems with Rational Numbers

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Solving Multi-Step Problems with Rational Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 3: SOLVING TWO-STEP EQUATIONS

Study: Solving Two-Step Equations

Solve two-step problems arithmetically by reversing the operations and their order. Develop and use an algebraic method to solve two-step equations by using inverse operations.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Solving Two-Step Equations

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Solving Two-Step Equations

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Solving Two-Step Equations

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Solving Two-Step Equations

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 4: SOLVING LINEAR INEQUALITIES

Study: Solving Linear Inequalities

Write inequalities to represent problems. Solve inequalities algebraically and show the solutions on a number line. See that multiplying or dividing both sides of an inequality by a negative number reverses the inequality sign.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Solving Linear Inequalities

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Solving Linear Inequalities

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Solving Linear Inequalities

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Solving Linear Inequalities

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 5: WRAP-UP: FOUNDATIONS OF ALGEBRA

Review: Foundations of Algebra

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

Duration: 0 hrs 20 mins Scoring: 0 points

Test (CS): Foundations of Algebra

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

Duration: 0 hrs 45 mins Scoring: 24 points

UNIT 5: 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 6: GEOMETRIC FIGURES

LESSON 1: SCALE DRAWINGS

Study: Scale Drawings

Understand that a scale drawing represents a real object, but is a different size. Know the role of the scale factor. Use scale drawings to compute lengths and areas of real objects.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Scale Drawings

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Scale Drawings

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Scale Drawings

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Scale Drawings

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 2: GEOMETRIC DRAWINGS

Study: Geometric Drawings

Use a protractor and ruler to draw geometric figures. Given three measurements for a triangle, determine whether it is possible to draw 0, 1, or more than one such triangle.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkup: Geometric Drawings

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Geometric Drawings

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Geometric Drawings

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Geometric Drawings

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 3: CROSS-SECTIONS OF GEOMETRIC SOLIDS

Study: Cross-Sections of Geometric Solids

Learn the meaning of the cross-section of a solid. Identify cross-sections for different figures, especially prisms and pyramids.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkup: Cross-Sections of Geometric Solids

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Cross-Sections of Geometric Solids

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Cross-Sections of Geometric Solids

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Cross-Sections of Geometric Solids

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 4: WRAP-UP: GEOMETRIC FIGURES

Review: Geometric Figures

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

Duration: 0 hrs 20 mins Scoring: 0 points

Test (CS): Geometric Figures

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

Duration: 0 hrs 45 mins Scoring: 18 points

UNIT 7: GEOMETRY IN TWO AND THREE DIMENSIONS

LESSON 1: CIRCLES

Study: Circles

Learn the parts of a circle. Understand the number pi. Learn and apply the circumference and area formulas for a circle.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Circles

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Circles

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Circles

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Circles

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 2: ANGLE RELATIONSHIPS

Study: Angle Relationships

Explore relationships between different types of angles, including vertical, adjacent, complementary, and supplementary angles.

Use these relationships to find unknown angle measures.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Angle Relationships

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Angle Relationships

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Angle Relationships

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Angle Relationships

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 3: AREA, VOLUME, AND SURFACE AREA

Study: Area, Volume, and Surface Area

Explore areas of parallelograms and composite figures. Investigate surface areas and volumes of triangular prisms and

composite solids.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Area, Volume, and Surface Area

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Area, Volume, and Surface Area

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Area, Volume, and Surface Area

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Area, Volume, and Surface Area

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 4: WRAP-UP: GEOMETRY IN TWO AND THREE DIMENSIONS

Review: Geometry in Two and Three Dimensions

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

Duration: 0 hrs 20 mins Scoring: 0 points

Test (CS): Geometry in Two and Three Dimensions

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

Duration: 0 hrs 45 mins Scoring: 20 points

UNIT 8: STATISTICS AND SAMPLING

LESSON 1: POPULATIONS AND SAMPLES

Study: Populations and Samples

Learn the difference between a population and a statistical sample. Learn about the importance of taking a representative sample, and see how to make predictions based on random samples.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Populations and Samples

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Populations and Samples

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Populations and Samples

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Populations and Samples

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 2: COMPARING DATA SETS VISUALLY

Study: Comparing Data Sets Visually

Practice finding the mean absolute deviation (MAD) for a data set. Use the MAD as a way to compare the means of two data sets.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Comparing Data Sets Visually

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Comparing Data Sets Visually

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Comparing Data Sets Visually

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Comparing Data Sets Visually

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 3: USING STATISTICAL MEASURES TO COMPARE DATA SETS**Study: Using Statistical Measures to Compare Data Sets**

Use means and medians to compare the centers of data sets. Use ranges and MADs to compare the variabilities of data sets. Compare populations based on sample data.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Using Statistical Measures to Compare Data Sets

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Using Statistical Measures to Compare Data Sets

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Using Statistical Measures to Compare Data Sets

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Using Statistical Measures to Compare Data Sets

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 4: WRAP-UP: STATISTICS AND SAMPLING**Review: Statistics and Sampling**

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

Duration: 0 hrs 20 mins Scoring: 0 points

Test (CS): Statistics and Sampling

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

Duration: 0 hrs 45 mins Scoring: 20 points

UNIT 9: PROBABILITY**LESSON 1: PROBABILITY****Study: Probability**

Understand that the likelihood of an event, called the probability, is a number from 0 (impossible) to 1 (certain). Use the fraction of times an event is observed to estimate its probability.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Probability

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Probability

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Probability

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Probability

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 2: CALCULATING PROBABILITY

Study: Calculating Probability

Find the probabilities of equally-likely outcomes and events that include more than one equally-likely outcome. Estimate probabilities based on experimental results.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Calculating Probability

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Calculating Probability

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Calculating Probability

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Calculating Probability

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 3: PROBABILITY OF COMPOUND EVENTS

Study: Probability of Compound Events

Learn the definition of a compound event. Use lists, tables, and tree diagrams to identify the outcomes of a compound event.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkpoint: Probability of Compound Events

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Probability of Compound Events

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Probability of Compound Events

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Probability of Compound Events

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 4: SIMULATIONS

Study: Simulations

See how to use simulations to estimate an unknown probability. Design simulations using coins, number cubes, and random digits.

Duration: 0 hrs 40 mins Scoring: 0 points

Checkup: Simulations

Check your understanding of the lesson.

Duration: 0 hrs 20 mins Scoring: 0 points

Review: Simulations

Review important ideas and skills from this lesson.

Duration: 0 hrs 5 mins Scoring: 0 points

Practice: Simulations

Submit your work for a set of practice problems.

Duration: 0 hrs 30 mins Scoring: 5 points

Quiz: Simulations

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 10 mins Scoring: 10 points

LESSON 5: WRAP-UP: PROBABILITY**Review: Probability**

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

Duration: 0 hrs 20 mins Scoring: 0 points

Test (CS): Probability

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

Duration: 0 hrs 45 mins Scoring: 28 points

UNIT 10: 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: 86 points