

Florida's Algebra I-A and I-B courses address the need for an expanded, two-year treatment of traditional high school Algebra I curriculum. Focusing on review of pre-algebra skills and introductory algebra content, Algebra I-A allows students to deepen their understanding of real numbers in their various forms and then extend their knowledge to linear equations in one and two variables. Course topics include problem solving; integers; the language of algebra; fractions and decimals; exponents; solving equations with four basic operations; solving equations with roots, powers, or multiple steps; functions; introduction to set theory; and linear equations.

Algebra I-A features ample opportunity for students to hone their computational skills by working through practice problem sets before moving on to formal assessment.

To assist students for whom language presents a barrier to learning or who are not reading at grade level, Algebra I-A includes audio resources in both Spanish and English.

Algebra I-A meets Florida's Next Generation Sunshine State Standards and Benchmarks.

Length: Two Semesters

UNIT 1: INTRODUCTION TO PROBLEM SOLVING

LESSON 1: BUILDING BASIC WORD PROBLEMS

Study: Building Basic Word Problems

Learn how to convert number sentences into addition or subtraction word problems. Practice this skill using sample problems.

Duration: 0 hr 25 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Building Basic Word Problems

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 2: A FOUR-STEP APPROACH

Study: A Four-Step Approach

Learn the four steps for solving word problems. Apply the four steps to sample problems.

Duration: 0 hr 25 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: A Four-Step Approach

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring:

12 points

LESSON 3: TOO MUCH OR TOO LITTLE INFORMATION**Study: Too Much or Too Little Information**

Learn about determining if there is enough information to solve a given problem, identifying missing information, and separating relevant from irrelevant information. Practice these skills using sample problems.

Duration: 0 hr 25 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Too Much or Too Little Information

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15

min Scoring: 12 points

LESSON 4: DRAW A DIAGRAM**Study: Draw a Diagram**

Learn what information to include in a diagram of a problem. Practice this skill using sample problems.

Duration: 0 hr 25 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Draw a Diagram

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 5: USE A MODEL OR ACT IT OUT

Study: Use a Model or Act it Out

Use sample problems to learn when and how to act out a problem or make a model.

Duration: 0 hr 25 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Use a Model or Act it Out

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 6: MAKE A LIST

Study: Make a List

Learn the steps for making a list in order to solve a word problem. Explore strategies for checking your answers. Practice these skills using sample problems.

Duration: 0 hr 25 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Make a List

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 7: BUILD A CHART AND FIND A PATTERN

Study: Build a Chart and Find a Pattern

Learn about collecting data in charts, identifying patterns in order to solve word problems, and completing charts in order to answer questions. Practice these skills using sample problems.

Duration: 0 hr 25 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Build a Chart and Find a Pattern

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 8: GUESS AND CHECK**Study: Guess and Check**

Review the four problem solving steps. Learn how to make logical guesses to solve a problem.

Solve word problems using this strategy.

Duration: 0 hr 25 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Guess and Check

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 9: WORK BACKWARD**Study: Work Backward**

Learn about starting with a solution and working backward to solve a word problem. Learn how to check your answers by working forward. Practice these skills using sample problems.

Duration: 0 hr 25 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Work Backward

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 10: SOLVE A SIMPLER PROBLEM

Study: Solve a Simpler Problem

Learn how to solve a problem by starting with a simpler problem and building from there.

Duration: 0 hr 25 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Solve a Simpler Problem

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring:

12 points

LESSON 11: BUILDING EQUATIONS**Study: Building Equations**

Learn about setting up an equation using information in a word problem and about choosing the correct operation(s). Practice these skills using sample problems.

Duration: 0 hr 25 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Building Equations

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 12: DEDUCTIVE REASONING**Study: Deductive Reasoning**

Learn the definition of deductive reasoning. Practice making conclusions and deducing which statements in a problem are true. Practice these skills using sample problems.

Duration: 0 hr 25 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Deductive Reasoning

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

LESSON 13: INDUCTIVE REASONING

Study: Inductive Reasoning

Explore inductive reasoning and using induction to continue a pattern. Practice these skills using sample problems.

Duration: 0 hr 25 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Inductive Reasoning

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 14: LOGIC PUZZLES

Study: Logic Puzzles

Learn about organizing logic data in a grid and about direct and indirect information. Practice these skills using sample logic problems.

Duration: 0 hr 25 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Logic Puzzles

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 15: REASONABLE ANSWERS

Study: Reasonable Answers

Learn strategies for analyzing problems and their solutions. Look at sample problems and decide whether their solutions are reasonable.

Duration: 0 hr 25 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Reasonable Answers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 16: INTRODUCTION TO PROBLEM SOLVING WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 0 hr 40 min Scoring: 100 points

Review: Introduction to Problem Solving

Review unit material in preparation for upcoming assessments.

Duration: 0 hr 30 min

Discuss: Introduction to Problem Solving

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hr 20 min Scoring: 30 points

Test (CS): Introduction to Problem Solving

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

Duration: 0 hr 30 min Scoring: 75 points

Test (TS): Introduction to Problem Solving

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

Duration: 0 hr 30 min Scoring: 50 points

LESSON 17: DIAGNOSTIC

Diagnostic: Introduction to Problem Solving

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 30 min Scoring: 25 points

UNIT 2: INTEGERS

LESSON 1: WHOLE NUMBERS

Study: Whole Numbers

Learn about aspects of whole numbers, including place value, natural numbers, sets, elements, and set notation.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Whole Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 2: NUMBER LINES AND INEQUALITIES

Study: Number Lines and Inequalities

Define and use a number line. Represent relationships between numbers with inequality symbols.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Number Lines and Inequalities

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 3: ROUNDING WHOLE NUMBERS

Study: Rounding Whole Numbers

Explore rounding and estimating numbers with and without a number line.

Duration:

0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Rounding with a Number Line

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

Quiz: Rounding without a Number Line

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 4: OPERATIONS AND NUMERICAL EXPRESSIONS**Study: Operations and Numerical Expressions**

Learn about forming and evaluating numerical expressions, the order of operations, and grouping symbols.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Operations and Numerical Expressions

Take a quiz to assess your understanding of the material.

Duration: 0 hr

15 min Scoring: 12 points

LESSON 5: PROPERTIES OF OPERATIONS**Study: Properties of Operations**

Learn about the associative, commutative, and distributive properties of addition and multiplication.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: The Associative Property

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

Quiz: The Commutative and Distributive Properties

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 6: THE OPERATIONS ON A NUMBER LINE

Study: The Operations on a Number Line

Explore using a number line to evaluate numerical expressions.

Duration: 0
hr 40 min

LESSON 7: REVERSE OPERATIONS

Study: Reverse Operations

Learn about addition, subtraction, multiplication, and division as reverse operations.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Reverse Operations

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12
points

LESSON 8: NEGATIVE NUMBERS

Study: Negative Numbers

Learn about positive, negative, and opposite numbers, as well as integers and signs.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Negative Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12
points

LESSON 9: ABSOLUTE VALUE

Study: Absolute Value

Learn about the absolute value of integers, the definition symbol, and the absolute value of expressions.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Absolute Value

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 10: ADDING INTEGERS

Study: Adding Integers

Learn about adding integers with and without a number line.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Adding Integers (Basic)

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring:

12 points

Quiz: Adding Integers (Advanced)

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 11: SUBTRACTING INTEGERS

Study: Subtracting Integers

Learn about subtracting negative integers by using a number line and by adding the opposite number (calculating).

Duration: 0 hr 40 min

Checkup: Practice Problems

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Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Subtracting Integers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 12: MULTIPLYING INTEGERS

Study: Multiplying Integers

Learn the rules for multiplying a positive and negative integer and for multiplying two negative integers.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Multiplying Integers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 13: DIVIDING INTEGERS

Study: Dividing Integers

Learn the rules for dividing a positive and negative integer and for dividing two negative integers.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Dividing Integers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 14: WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 0 hr 40 min Scoring: 100 points

Review: Integers

Review unit material in preparation for upcoming assessments.

Duration: 0 hr 30 min

Discuss: Consistency is Key

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hr 20 min Scoring: 30 points

Test (CS): Integers

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

Duration: 0 hr 30 min

Scoring: 75 points

Test (TS): Integers

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

Duration: 0 hr 30 min

Scoring: 50 points

LESSON 15: DIAGNOSTIC**Diagnostic: Integers**

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr

30 min Scoring: 25 points

UNIT 3: THE LANGUAGE OF ALGEBRA

LESSON 1: WHAT IS A VARIABLE?**Study: What is a Variable?**

Learn the definition and explore examples of variables.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: What is a Variable?

Take a quiz to assess your understanding of the material.

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Duration: 0 hr 15 min Scoring: 12 points

LESSON 2: FINDING AND NAMING VARIABLES

Study: Finding and Naming Variables

Select relevant variables and name them.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Finding and Naming Variables

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 3: UNITS AND REASONABLE VALUES

Study: Units and Reasonable Values

Learn to recognize units of measure and determine reasonable values.

Duration:

0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Units and Reasonable Values

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 4: GRAPHS TABLES AND EQUATIONS

Study: Graphs, Tables, and Equations

Find the value of a variable using graphs, tables, and equations. Learn to organize information and find patterns. Explore examples and advantages of each problem-solving method.

Duration: 0 hr

40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Graphs, Tables, and Equations

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 5: SOLVING PROBLEMS WITH TABLES AND GRAPHS**Study: Solving Problems with Tables and Graphs**

Set up tables and graphs and use them to organize information.

Determine when to use tables and graphs to solve problems.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Solving Problems with Tables and Graphs

Take a quiz to assess your understanding of the material.

Duration: 0

hr 15 min Scoring: 12 points

LESSON 6: VARIABLE EXPRESSIONS**Study: Variable Expressions**

Define and form variable expressions by performing operations.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Variable Expressions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 7: SIMPLIFYING AND EVALUATING EXPRESSIONS

Study: Simplifying and Evaluating Expressions

Simplify variable expressions by evaluating their numerical parts.

Evaluate variable expressions by substituting values for x .

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Simplifying and Evaluating Expressions

Take a quiz to assess your understanding of the material.

Duration: 0 hr

15 min Scoring: 12 points

LESSON 8: MATHEMATICAL SENTENCES**Study: Mathematical Sentences**

Learn about the types and parts of mathematical sentences. Learn about translating word problems into mathematical sentences.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Mathematical Sentences

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring:

12 points

LESSON 9: SOLVING MATHEMATICAL SENTENCES**Study: Solving Mathematical Sentences**

Solve equations using the "guess-and-check" method. Define a solution set and compare solution sets of equations and inequalities.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Solving Mathematical Sentences

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 10: SOME GUIDELINES FOR PROBLEM SOLVING

Study: Some Guidelines for Problem Solving

Use problem-solving tips to solve a problem. Develop a general strategy for solving problems.

Duration: 0 hr 40 min

Quiz: Some Guidelines for Problem Solving

Take a quiz to assess your understanding of the material.

Duration: 0 hr

15 min Scoring: 12 points

LESSON 11: WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 0 hr 40 min Scoring: 100 points

Review: The Language of Algebra

Review unit material in preparation for upcoming assessments.

Duration: 0 hr 30 min

Discuss: Using X to Mark the Spot

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hr 20 min Scoring: 30 points

Test (CS): The Language of Algebra

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

Duration: 0 hr 30 min Scoring: 75 points

Test (TS): The Language of Algebra

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

Duration:

0 hr 30 min Scoring: 50 points

LESSON 12: DIAGNOSTIC

Diagnostic: The Language of Algebra

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Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 30 min Scoring: 25 points

UNIT 4: FRACTIONS AND DECIMALS

LESSON 1: FRACTION FUNDAMENTALS

Study: Fraction Fundamentals

Learn about fractions, numerators, denominators, and equivalent fractions.

Duration: 0

hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Fractional Amounts

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

Quiz: Equivalent Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 2: INTRODUCTION TO FRACTION ARITHMETIC

Study: Introduction to Fraction Arithmetic

Learn about adding and subtracting fractions with like denominators, multiplying a fraction by an integer, and multiplying fractions.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Adding and Subtracting Like Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hr

15 min Scoring: 12 points

Quiz: Multiplying Fractions

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Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 3: EQUIVALENT FRACTIONS

Study: Equivalent Fractions

Learn about building equivalent fractions in order to add and subtract fractions with unlike denominators. Learn about comparing equivalent fractions.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Adding and Subtracting Unlike Fractions

Take a quiz to assess your understanding of the material.

Duration: 0

hr 15 min Scoring: 12 points

Quiz: Comparing Unlike Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 4: SIMPLIFYING FRACTIONS

Study: Simplifying Fractions

Learn about finding common factors; dividing numerators and denominators by a common factor in order to simplify a fraction; putting a fraction in lowest terms; prime and composite numbers; and using a factor tree to find prime factorization.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Finding Common Denominators

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

Quiz: Dividing by Common Factors

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

Quiz: Simplifying Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

Quiz: Prime and Composite Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

Quiz: Prime Factorization

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 5: MIXED NUMBERS

Study: Mixed Numbers

Learn about proper and improper fractions, writing improper fractions as mixed numbers, and converting mixed numbers to improper fractions.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Converting Improper Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

Quiz: Converting Mixed Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 6: DIVIDING FRACTIONS

Study: Dividing Fractions

Learn the definition of reciprocals. Learn about finding reciprocals of fractions in order to divide them.

Duration: 0 hr 40 min

Checkout: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Finding Reciprocals

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

Quiz: Dividing Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 7: ADDING AND SUBTRACTING FRACTIONS

Study: Adding and Subtracting Fractions

Learn about the smallest common denominator (the least common multiple of denominators) and about using prime factorization to find the least common multiple.

Duration: 0 hr 40 min

Checkout: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Adding and Subtracting Unlike Fractions

Take a quiz to assess your understanding of the material.

Duration: 0

hr 15 min Scoring: 12 points

Quiz: Solving Equations with Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15

min Scoring: 12 points

LESSON 8: DECIMALS AND PERCENTS

Study: Decimals and Percents

Learn about place value in integers and decimals, terminating and repeating decimals, finding decimal equivalents of fractions, and converting decimals to percents. Explore real-world examples of how to use percentages.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Converting Fractions to Decimals

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15

min Scoring: 12 points

Quiz: Converting Percents to Decimals

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 9: THE SET OF RATIONAL NUMBERS

Study: The Set of Rational Numbers

Learn about rational and irrational numbers and pi.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Rational Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 10: APPLICATIONS OF PERCENTAGES

Study: Applications of Percentages

Learn about a variety of applications of percentages, including increase, decrease, and interest.

Duration: 0 hr 40 min

Practice: Applications of Percentages

Submit your work for a set of 20 practice problems.

Duration: 0 hr 30 min

Scoring: 25 points

LESSON 11: CONVERTING UNITS

Study: Converting Units

Learn about converting between units from different systems, multiplication by one, and canceling units.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Canceling Units

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

Quiz: Converting Units

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 12: WRAP-UP**Practice: Assignment**

Submit your work for a set of 20 practice problems.

Duration: 0 hr 40 min Scoring: 100 points

Review: Fractions and Decimals

Review unit material in preparation for upcoming assessments.

Duration: 0 hr 30 min

Discuss: Pieces of a Whole

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hr 20 min Scoring: 30 points

Test (CS): Fractions and Decimals

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

Duration: 0 hr 30 min Scoring: 75 points

Test (TS): Fractions and Decimals

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

Duration: 0 hr 30 min Scoring: 50 points

LESSON 13: DIAGNOSTIC

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Diagnostic: Fractions and Decimals

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 30 min Scoring: 25 points

UNIT 5: EXPONENTS

LESSON 1: DEFINITIONS AND EXAMPLES OF EXPONENTS

Study: Definitions and Examples of Exponents

Learn the definitions of base, exponent, power, and exponential expression. Learn to use a table to illustrate real-world applications of exponents.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Definitions and Examples of Exponents

Take a quiz to assess your understanding of the material.

Duration: 0 hr

15 min Scoring: 12 points

LESSON 2: EXPONENTS AND THE ORDER OF OPERATIONS

Study: Exponents and the Order of Operations

Learn about evaluating expressions with exponents using the order of operations.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Exponents and the Order of Operations

Take a quiz to assess your understanding of the material.

Duration: 0 hr

15 min Scoring: 12 points

LESSON 3: LAWS OF EXPONENTS

Study: Laws of Exponents

Learn about the multiplication law of exponents with positive and negative exponents; the rule for negative exponents; the division law of exponents; raising products and fractions to a power; and the power rule of exponents.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: The Multiplication Law of Exponents

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15

min Scoring: 12 points

Quiz: Zero and Negative Exponents

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

Quiz: The Division Law of Exponents

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

Quiz: Raising Products and Fractions to a Power

Take a quiz to assess your understanding of the material.

Duration:

0 hr 15 min Scoring: 12 points

Quiz: The Power Rule of Exponents

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 4: SCIENTIFIC NOTATION**Study: Scientific Notation**

Learn about expressing large numbers using scientific notation and about the form of scientific notation. Explore examples from elementary science.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Scientific Notation

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Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 5: EXPONENTS IN GEOMETRY

Study: Exponents in Geometry

Learn about using exponents to represent area and volume formulae. Explore units of area and volume.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Exponents in Geometry

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring:

12 points

LESSON 6: SQUARE ROOTS

Study: Square Roots

Learn about fractional exponents; principal square roots; square roots of positive numbers; perfect squares; and negative square roots vs. square roots of negative numbers.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Square Roots

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 7: RADICAL NOTATION

Study: Radical Notation

Learn about radical signs and radicands. Explore laws of exponents that apply to radicals.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Radical Notation

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 8: WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 0 hr 40 min Scoring: 100 points

Review: Exponents

Review unit material in preparation for upcoming assessments.

Duration: 0 hr 30 min

Discuss: Thinking Big with Exponents

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hr 20 min Scoring: 30 points

Test (CS): Exponents

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

Duration: 0 hr 30 min

Scoring: 75 points

Test (TS): Exponents

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

Duration: 0 hr 30 min

Scoring: 50 points

LESSON 9: DIAGNOSTIC

Diagnostic: Exponents

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0

hr 30 min Scoring: 25 points

UNIT 6: ALGEBRA I-A SEMESTER 1 WRAP-UP

LESSON 1: ALGEBRA I-A SEMESTER 1

Review: Algebra I-A Semester 1

Duration: 1 hr

Exam: Algebra I-A Semester 1

Duration: 0 hr 50 min Scoring: 200 points

UNIT 7: SOLVING EQUATIONS WITH FOUR BASIC OPERATIONS

LESSON 1: SOLVING EQUATIONS GRAPHICALLY

Study: Solving Equations Graphically

Begin solving basic equations by using an interactive scale tool. Discover problem-solving strategies such as isolating a variable in an equation and using tiles on a scale to represent values in word problems.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Solving Equations Graphically

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 2: SOLVING EQUATIONS WITH LARGER NUMBERS

Study: Solving Equations with Larger Numbers

Translate a word problem involving large numbers into a mathematical sentence (or equation) and use an interactive scale tool to solve for the variable.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Solving Equations with Larger Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hr

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LESSON 3: SOLVING $x + A = B$

Study: Solving $x + a = b$

Practice solving equations in the form $x + a = b$ by isolating the variable x on one side of the equation. Learn how to solve this type of equation when the value of a is positive or negative.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Solving $x + a = b$

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

Quiz: Solving $x - a = b$

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 4: SOLVING WITH A NUMBER LINE

Study: Solving with a Number Line

Plot points on a number line, moving to the left or right to solve equations.

Duration:
0 hr 40 min

LESSON 5: SOLVING INEQUALITIES

Study: Solving Inequalities

Develop strategies to solve various forms of inequalities and display their solution set on a number line.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Solving Inequalities

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 6: VARIATIONS OF EQUATIONS AND INEQUALITIES

Study: Variations of Equations and Inequalities

Explore problems that take different forms. Rearrange equations into standard form, $x + a = b$, and solve inequalities in nonstandard form.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Equations in Nonstandard Form

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

Quiz: Inequalities in Nonstandard Form

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15

min Scoring: 12 points

LESSON 7: SOLVING $AX = B$

Study: Solving $ax = b$

Learn about setting up a table; writing an equation to express a pattern; isolating a variable; dividing by the coefficient of a variable; and using a number line to solve equations in standard form.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Solving $ax = b$

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 8: THE LIGHTNING PROBLEM

Study: The Lightning Problem

Apply the rate formula for distance to determine how far away a thunderstorm is, based on the time delay between seeing lightning and hearing thunder.

Duration: 0 hr 40 min

LESSON 9: SOLVING $X/A = B$ **Study: Solving $x/a = b$**

Learn about solving division problems by using multiplication.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Solving $x/a = b$

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 10: INEQUALITIES**Study: Inequalities**

Learn about solving inequalities by dividing by the coefficient of a variable. Learn about multiplying and dividing inequalities by negative numbers.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Solving Inequalities with Division

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15

min Scoring: 12 points

Quiz: Solving Inequalities with Multiplication

Take a quiz to assess your understanding of the material.

Duration: 0 hr

15 min Scoring: 12 points

LESSON 11: SOLVING EQUATIONS WITH FOUR BASIC OPERATIONS WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 0 hr 40 min Scoring: 100 points

Review: Solving Equations with Four Basic Operations

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

Duration: 0 hr 30 min

Discuss: Math — The Ultimate Balancing Act

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hr 20 min Scoring: 30 points

Test (CS): Solving Equations with Four Basic Operations

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

Duration: 0 hr 30 min Scoring: 75 points

Test (TS): Solving Equations with Four Basic Operations

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

Duration: 0 hr 30 min Scoring: 50 points

LESSON 12: DIAGNOSTIC**Diagnostic: Solving Equations with Four Basic Operations**

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 30 min Scoring: 25 points

UNIT 8: SOLVING EQUATIONS WITH ROOTS, POWERS, OR MULTIPLE STEPS

LESSON 1: SOLVING $AX + B = C$ **Study: Solving $ax + b = c$**

Identify the strategy for solving one-step equations and apply it to multistep equations. Perform the reverse of two or more operations on an equation. Build a variable expression to determine how to isolate the variable.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

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Quiz: Solving $ax + b = c$

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 2: COLLECTING LIKE TERMS**Study: Collecting Like Terms**

Learn definitions of like terms and constants. Learn about collecting like terms, adding and subtracting coefficients of like terms, and solving equations with unlike terms.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Identifying Like Terms

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring:

12 points

Quiz: Collecting Like Terms

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 3: USING THE DISTRIBUTIVE PROPERTY**Study: Using the Distributive Property**

Learn about using the distributive property with variable expressions and then collecting like terms.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Using the Distributive Property

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 4: VARIABLES ON BOTH SIDES OF THE EQUATION

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Study: Variables on Both Sides of the Equation

Learn about adding or subtracting variable expressions from both sides of an equation and about collecting variable terms on one side of an equation. Learn about equations with no solution.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Variables on Both Sides of the Equation (Basic)

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

Quiz: Variables on Both Sides of the Equation (Advanced)

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 5: THE PROFIT PROBLEM**Study: The Profit Problem**

Apply methods from this unit to the real-world problem of calculating profit.

Duration: 0 hr 40 min

LESSON 6: SOLVING $|x| = b$ **Study: Solving $|x| = b$**

Learn about finding solution sets for absolute values by using a number line.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Solving $|x| = b$

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 7: SOLVING $x^2 = B$

Study: Solving $x^2 = b$

Learn about evaluating expressions with exponents by isolating the variable and finding the principal square root of both sides.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Solving $x^2 = b$

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring:

12 points

LESSON 8: SOLVING & RADIC; $x = b$ **Study: Solving & radic; $x = b$**

Learn to solve equations involving square roots.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Solving & radic; $x = b$

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 9: INEQUALITIES AND ABSOLUTE VALUE**Study: Inequalities and Absolute Value**

Learn about using a number line to find solution sets of equations with absolute values.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Inequalities and Absolute Value

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 10: INEQUALITIES AND x^2

Study: Inequalities and x^2

Learn about solving inequalities with exponents.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Inequalities and x^2

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 11: INEQUALITIES AND \sqrt{x}

Study: Inequalities and \sqrt{x}

Learn about solving inequalities with square roots by squaring both sides and plotting solution sets on a number line.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Inequalities and \sqrt{x}

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 12: MULTISTEP AND COMPOUND INEQUALITIES

Study: Multistep and Compound Inequalities

Apply the techniques you have learned so far in this unit to solve multistep and compound inequalities.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Multistep and Compound Inequalities

Take a quiz to assess your understanding of the material.

Duration: 0 hr

15 min Scoring: 12 points

LESSON 13: SOLVING EQUATIONS WITH ROOTS, POWERS, OR MULTIPLE STEPS WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 0 hr 40 min Scoring: 100 points

Review: Solving Equations with Roots, Powers, or Multiple Steps

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

Duration: 0 hr 30 min

Discuss: The Importance of Strategy

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hr 20 min Scoring: 30 points

Test (CS): Solving Equations with Roots, Powers, or Multiple Steps

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

Duration: 0 hr 30 min Scoring: 75 points

Test (TS): Solving Equations with Roots, Powers, or Multiple Steps

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

Duration: 0 hr 30 min Scoring: 50 points

LESSON 14: DIAGNOSTIC

Diagnostic: Solving Equations with Roots, Powers, or Multiple Steps

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 30 min Scoring: 25 points

UNIT 9: FUNCTIONS

LESSON 1: WHEN ONE THING DEPENDS ON ANOTHER

Study: When One Thing Depends on Another

Learn the definition and explore examples of functions as quantities that depend on other quantities.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: When One Thing Depends on Another

Take a quiz to assess your understanding of the material.

Duration: 0 hr

15 min Scoring: 12 points

LESSON 2: FUNCTION NOTATION

Study: Function Notation

Learn about and explore examples of function notation.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Translating to Function Notation

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

Quiz: Function Notation for Specific Amounts

Take a quiz to assess your understanding of the material.

Duration: 0 hr

15 min Scoring: 12 points

Quiz: Naming Functions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 3: INPUT-OUTPUT MACHINES

Study: Input-Output Machines

Learn about the domain and range of functions, input-output diagrams, using rules for functions, and mathematical expressions in functions.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Using Functions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 4: FUNCTIONS AND TABLES

Study: Functions and Tables

Learn about using input-output tables to define or describe functions, estimating values of functions, and finding a function's rule on a table.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Functions and Tables

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 5: FUNCTIONS AND GRAPHS

Study: Functions and Graphs

Learn about using bar graphs, pie charts, and line graphs to describe or define functions.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Functions and Graphs

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring:

12 points

LESSON 6: FUNCTIONS AND FORMULAS

Study: Functions and Formulas

Learn about using algebraic rules and formulas to describe and define functions.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Functions and Formulas

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring:

12 points

Study: Solving the Profit Problem

In a real-world application, use tables, rules, and the method of estimating values to write an equation that expresses a function. Solve the equation and express the output in a line graph.

Duration: 0 hr 40

min

LESSON 7: HOW MANY OUTPUTS?

Study: How Many Outputs?

Review functions and what makes them special; independent and dependent variables; inputs and outputs; and examples of relationships that might not be functional.

Duration: 0 hr 40 min

Quiz: How Many Outputs?

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 8: FUNCTIONS AND RELATIONS

Study: Functions and Relations

Learn about using mapping diagrams; ordered pairs on diagrams; the difference between mapping diagrams of functions and relations; the vertical-line test; and equations of functions and relations.

Duration: 0 hr 40 min

Checkup: Practice Problems

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Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Mapping Functions and Relations

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15

min Scoring: 12 points

Quiz: Identifying Functions and Relations

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15

min Scoring: 12 points

LESSON 9: DOMAIN AND RANGE

Study: Domain and Range

Learn about domain and range on a mapping diagram, estimating domain and range of functions, and calculating the domain of a function from an equation.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Domain and Range

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 10: FUNCTIONS WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 0 hr 40 min Scoring: 100 points

Review: Functions

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

Duration: 0 hr 30 min

Discuss: Real-World Functions

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hr 20 min Scoring: 30 points

Test (CS): Functions

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

Duration: 0 hr 30 min

Scoring: 75 points

Test (TS): Functions

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

Duration: 0 hr 30 min

Scoring: 50 points

LESSON 11: DIAGNOSTIC

Diagnostic: Functions

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0

hr 30 min Scoring: 25 points

UNIT 10: INTRODUCTION TO SET THEORY

LESSON 1: WHAT IS A SET?

Study: What Is a Set?

Define a set and its parts. Explore sets in the real world.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: What Is a Set?

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 2: SET NOTATION

Study: Set Notation

Learn the standard notation for sets.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Set Notation

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 3: SET OPERATIONS

Study: Set Operations

Learn to perform operations on sets, including union and intersection, complement, and Cartesian product.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Set Operations

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 4: SET RELATIONSHIPS

Study: Set Relationships

Use Venn diagrams to explore such concepts as inclusion, containment, and subsets.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Set Relationships

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 5: INTRODUCTION TO SET THEORY WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 0 hr 40 min Scoring: 100 points

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Review: Introduction to Set Theory

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

Duration: 0 hr 30 min

Discuss: Introduction to Set Theory

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hr 20 min Scoring: 30 points

Test (CS): Introduction to Set Theory

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

Duration: 0 hr 30 min Scoring: 75 points

Test (TS): Introduction to Set Theory

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

Duration:

0 hr 30 min Scoring: 50 points

LESSON 6: DIAGNOSTIC**Diagnostic: Introduction to Set Theory**

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 30 min Scoring: 25 points

UNIT 11: LINEAR EQUATIONS

LESSON 1: CARTESIAN COORDINATE SYSTEMS**Study: Cartesian Coordinate Systems**

Represent real-world information with points instead of bars on a graph. Discover that the Cartesian coordinate system is made up of two number lines. Identify the origin, the x -axis, the y -axis, and the four quadrants on the xy -plane. Graph sets of coordinates known as ordered pairs.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Reading Data from Graphs

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

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Quiz: Identifying Parts of a Cartesian Coordinate Grid

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

Quiz: Plotting Coordinate Pairs

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

Quiz: Points in the Four Quadrants

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 2: LINES IN THE XY-PLANE

Study: Lines in the xy -plane

Learn about plotting solution set values of equations as data points on the xy -plane (that is, plotting the graph of the equation).

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Lines in the xy -plane

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 3: SLOPE

Study: Slope

Learn about rise, run, and the slope formula. Learn about rearranging a formula to compute rise and run, negative zero, and undefined slopes.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Finding the Slope of a Line (Basic)

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15
min Scoring: 12 points

Quiz: Finding the Slope of a Line (Advanced)

Take a quiz to assess your understanding of the material.

Duration: 0 hr
15 min Scoring: 12 points

Quiz: Identifying Types of Slopes

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min
Scoring: 12 points

LESSON 4: PARALLEL AND PERPENDICULAR LINES

Study: Parallel and Perpendicular Lines

Define parallel lines and the relationship of their slopes. Identify perpendicular lines, how they intersect, and the product of their slopes as negative reciprocals.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Parallel and Perpendicular Lines

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min
Scoring: 12 points

LESSON 5: SLOPE AND EQUATIONS

Study: Slope and Equations

Learn about finding the equation of a line. Learn about slope as the coefficient of the variable in the linear equation ($y = mx$).

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Slope and Equations

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12
points

LESSON 6: SLOPE-INTERCEPT FORM

Study: Slope-Intercept Form

Determine the equations of lines that don't pass through the origin. Plot a set of points to find the graph, slope, and y -intercept equation of a line. Discover the general form of the slope-intercept equation of a line.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Slope-Intercept Form

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12 points

LESSON 7: POINT-SLOPE FORM

Study: Point-Slope Form

Learn about the point-slope equation and about manipulating equations into slope-intercept form.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Point-Slope Equation of a Line

Take a quiz to assess your understanding of the material.

*Duration: 0 hr 15 min
Scoring: 12 points*

Quiz: Point-Intercept Equation of a Line

Take a quiz to assess your understanding of the material.

*Duration: 0 hr 15 min
Scoring: 12 points*

LESSON 8: LINEAR INEQUALITIES

Study: Linear Inequalities

Learn about graphing inequalities and the half-plane. Discover three steps to graphing inequalities.

Duration: 0 hr 40 min

Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hr 20 min

Quiz: Linear Inequalities

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min Scoring: 12

points

LESSON 9: PROPERTIES OF LINES

Study: Properties of Lines

Derive information about lines in their various forms.

Duration: 0 hr 40 min

Practice: Properties of Lines

Submit your work for a set of 20 practice problems.

Duration: 0 hr 30 min Scoring: 25

points

LESSON 10: LINEAR EQUATIONS WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 0 hr 40 min Scoring: 100 points

Review: Linear Equations

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

Duration: 0 hr 30 min

Discuss: Lines and Graphs Beyond Math Class

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hr 20 min Scoring: 30 points

Test (CS): Linear Equations

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

Duration: 0 hr 30

min Scoring: 75 points

Test (TS): Linear Equations

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

*Duration: 0 hr 30
min Scoring: 50 points*

LESSON 11: DIAGNOSTIC

Diagnostic: Linear Equations

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 30 min Scoring: 25 points

UNIT 12: ALGEBRA I-A SEMESTER 2 WRAP-UP

LESSON 1: ALGEBRA I-A SEMESTER 2

Review: Algebra I-A Semester 2

Duration: 1 hr

Exam: Algebra I-A Semester 2

Duration: 0 hr 50 min Scoring: 200 points