

Florida Math for College Success provides a math curriculum focused on developing the mastery of skills identified as critical to postsecondary readiness in math. This single-semester elective is aligned with Florida's Postsecondary Readiness Competencies in mathematics and targets students who are required to complete additional instruction based on their performance on the Postsecondary Education Readiness Test (PERT).

Course topics include a review of algebra concepts; functions and sequences; systems of equations; polynomials; factoring quadratic expressions; rational expressions; and data analysis.

Throughout the course, students are supplied with scaffolded note-taking guides, called Study Sheets, as well as post-study Checkup activities that provide them the opportunity to hone their computational skills by working through a low-stakes, 10-question problem set before moving on to formal assessment. Formative assessments help students to understand areas of weakness and improve performance, while summative assessments chart progress and skill development.

The content is specifically aligned with Florida Postsecondary Readiness Competencies.

Length: One Semester

UNIT 1: REVIEW OF ALGEBRA CONCEPTS

LESSON 1: TYPES OF NUMBERS

Study: Types of Numbers

Learn about different types of real numbers, including exponents, decimals, and percents. Compare numbers of different types and formats using a number line.

Duration: 0 hr 50 min Scoring: 0 points

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Types of Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 20 points

Quiz: Rational and Irrational Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 15 min

Scoring: 12 points

LESSON 2: 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 3: INTEGERS AND OPERATIONS

Study: Integers and Operations

Use properties of operations and the order of operations to evaluate expressions involving integers. Learn about reverse operations, absolute value, and how to represent absolute values on a number line. Recognize and acquire a basic understanding of exponents.

Duration: 0 hr 50 min Scoring: 0 points

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Properties of Operations

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

20 points

Quiz: Order of Operations

Take a quiz to check your understanding of what you have learned.

Duration: 0 hr 25 min

Scoring: 20 points

LESSON 4: FRACTIONS, DECIMALS, AND PERCENTS

Study: Fractions, Decimals, and Percents

Review fraction terminology (including "numerator" and "denominator"); performing operations with fractions; real (rational and irrational) numbers; equivalent fractions; prime numbers and factorization; least common multiples; reciprocals; and converting fractions to decimals and percents.

Duration: 0 hr 50 min

Checkup: Practice Problems

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

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Duration: 0 hr 30 min

Quiz: Like Denominators

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min Scoring: 16 points

Quiz: Equivalent Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 20 points

LESSON 5: OPERATIONS WITH EXPONENTS

Study: Operations with Exponents

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

Duration: 0 hr 50 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Operations with Exponents

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min

Scoring: 20 points

Quiz: Operations with Radicals

Take a quiz to check your understanding of what you have learned.

Duration: 0 hr 20

min Scoring: 20 points

Quiz: Scientific Notation

Take a quiz to check your understanding of what you have learned.

Duration: 0 hr 20 min

Scoring: 20 points

Quiz: Exponents in Geometry

Take a quiz to check your understanding of what you have learned.

Duration: 0 hr 10 min

Scoring: 10 points

LESSON 6: VARIABLES AND PROBLEM SOLVING

Study: Variables and Problem Solving

Review what a variable is, and how to form and use variable expressions to solve problems.

Duration: 0 hr 50 min Scoring: 0 points

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Variable Expressions

Take a quiz to check your understanding of what you have learned.

Duration: 0 hr 25 min

Scoring: 20 points

Quiz: Mathematical Sentences

Take a quiz to check your understanding of what you have learned.

Duration: 0 hr 25

min Scoring: 20 points

LESSON 7: SOLVING WITH ADDITION, SUBTRACTION, MULTIPLICATION, AND DIVISION**Study: Solving with Addition, Subtraction, Multiplication, and Division**

Review how to isolate variables and solve simple equations and inequalities using properties of addition, subtraction, multiplication and division. Identify solution sets for inequalities using a number line.

Duration: 0 hr 30 min Scoring: 0 points

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Using Operations to Solve Equalities

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 30 points

Quiz: Using Operations to Solve Inequalities

Take a quiz to assess your understanding of the material.

Duration: 0 hr

25 min Scoring: 30 points

LESSON 8: SOLVING MULTISTEP LINEAR EQUATIONS

Study: Solving Multistep Linear Equations

Review collecting like terms, using both addition/subtraction and multiplication/division and identifying equations that are never or always true.

Duration: 0 hr 50 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Basic Collecting of Like Terms

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 16 points

Quiz: Advanced Collecting of Like Terms

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 16 points

Quiz: Finding Number of Solution Sets

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 16 points

LESSON 9: 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 10: PERCENTAGES AND COMMISSION**Study: Percentages and Commission**

Understand how to use percentages to calculate commission pay with the formula

$C = prn$.

Duration: 0 hr 45 min Scoring: 0 points

Checkup: Practice Problems

Check your understanding of the lesson.

Duration: 0 hr 20 min Scoring: 0 points

Quiz: Percentages and Commission

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min

Scoring: 20 points

LESSON 11: SALES TAX

Study: Sales Tax

Learn how to calculate sales tax based on percentages. Consider various state sales taxes and practice calculating totals while taking exempt items into account.

Duration: 0 hr 45 min Scoring: 0 points

Checkup: Practice Problems

Check your understanding of the lesson.

Duration: 0 hr 20 min Scoring: 0 points

Quiz: Sales Tax

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min Scoring: 20 points

LESSON 12: REVIEW OF ALGEBRA CONCEPTS WRAP-UP

Test (CS): Review of Algebra Concepts

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

Duration: 1 hr Scoring: 75 points

LESSON 13: DIAGNOSTIC

Diagnostic: Review of Algebra Concepts

Take a diagnostic test that will create a study plan based on your answers.

Duration: 0 hr 40 min Scoring: 42 points

UNIT 2: RATIOS, RATES, AND PROPORTIONS

LESSON 1: ESTIMATION AND SCALE

Study: Estimation and Scale

Learn about scale of numbers, order of magnitude, powers of 10, estimating large numbers, and Fermi problems.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Estimation and Scale

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 30 points

LESSON 2: PRECISION IN MEASUREMENT

Study: Precision in Measurement

Learn about precision, accuracy, significant figures, multiplication, and addition.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Precision and Accuracy

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 30 points

Quiz: Significant Figures

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 30 points

LESSON 3: APPLICATIONS OF MEASUREMENT

Study: Applications of Measurement

Learn about applications of units, unit conversions, estimation and scale, order of magnitude, precision, accuracy, and significant figures.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Applications of Measurement

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 30 points

LESSON 4: MEASUREMENT CONVERSIONS**Study: Measurement Conversions**

Use conversions between measurement systems to solve problems in real-world situations.

Duration: 0 hr 50 min Scoring: 0 points

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Measurement Conversions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 20 points

LESSON 5: INTRODUCTION TO RATIOS**Study: Introduction to Ratios**

Learn about writing fractions as ratios, simplifying ratios, other ways to write ratios, and the order of numbers in a ratio. Practice these skills using sample problems.

Duration: 0 hr 30 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Introduction to Ratios

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min Scoring: 10 points

LESSON 6: PROPORTIONS

Study: Proportions

Use ratios to define proportions and solve problems involving proportions.

Duration: 0 hr 30 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Proportions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min Scoring: 10 points

LESSON 7: RATES

Study: Rates

Use ratios to define rates and solve rate problems.

Duration: 0 hr 30 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Rates

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min Scoring: 8 points

LESSON 8: RATIOS, RATES, AND PROPORTIONS WRAP-UP

Test (CS): Ratios, Rates and Proportions

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

Duration: 1 hr Scoring: 75 points

LESSON 9: DIAGNOSTIC

Diagnostic: Ratios, Rates, and Proportions

Take a diagnostic test that will create a study plan based on your answers.

Duration: 0 hr 40 min Scoring: 40 points

UNIT 3: 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

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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

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

Test (CS): Functions

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

Duration: 1 hr Scoring:

LESSON 11: DIAGNOSTIC

Diagnostic: Functions

Take a diagnostic test that will create a study plan based on your answers.

Duration: 0 hr 40 min

Scoring: 39 points

UNIT 4: LINEAR EQUATIONS

LESSON 1: DATA ANALYSIS

Study: Data Analysis

Learn about using the Cartesian coordinate system to find patterns in data; plotting points on a graph; dependent and independent variables; converting table data to ordered pairs; and using the best-fit line to estimate the value of data points.

Duration: 0 hr 50 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Data Analysis

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 18 points

LESSON 2: PATTERNS AND LINES

Study: Patterns and Lines

Explore a variety of functional relationships involving direct variation. Get an introduction to lines by examining the connection between the pattern of points on the graph of a line and the line's equation. Find the equation of a line based on the coordinates of its points, and graph a linear equation from a chart of its solutions.

Duration:

0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Finding Equations of Lines as Solutions

Take a quiz to assess your understanding of the material.

Duration: 0

hr 25 min Scoring: 30 points

LESSON 3: SLOPE

Study: Slope

Learn about measuring slope, rise, and run; the slope formula; negative zero and undefined slope; and measuring the rate of change of a dependent variable.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 25 min

Quiz: Computing Slope

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 24

points

Quiz: Special Cases of Slope

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

30 points

LESSON 4: SLOPE-INTERCEPT EQUATION OF A LINE

Study: Slope-Intercept Equation of a Line

Learn about using slope and y-intercept to find 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 30 min

Quiz: Finding Slope-Intercept Equations of Lines

Take a quiz to assess your understanding of the material.

Duration:

0 hr 25 min Scoring: 22 points

LESSON 5: POINT-SLOPE EQUATION OF A LINE

Study: Point-Slope Equation of a Line

Learn about using slope and a point to find the y -intercept of a line; deriving and using the point-slope equation; and the standard form of an equation. Complete an application problem involving a mass on a spring.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Finding the Equations of Lines

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 22 points

LESSON 6: 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 7: PARALLEL AND PERPENDICULAR LINES

Study: Parallel and Perpendicular Lines

Learn about parallel and perpendicular lines and the relationships between their slopes.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Slopes of Parallel and Perpendicular Lines

Take a quiz to assess your understanding of the material.

Duration:

0 hr 25 min Scoring: 30 points

LESSON 8: LINEAR INEQUALITIES

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Study: Linear Inequalities

Learn about finding and graphing solutions sets for linear inequalities.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Graphs of Inequalities

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

18 points

Study: Solving the Lighting Problem

Learn about applying linear inequalities in order to solve the real-world problem of energy usage, comparing incandescent and fluorescent light bulbs.

Duration: 0 hr 40 min

LESSON 9: LINEAR EQUATIONS WRAP-UP**Test (CS): Linear Equations**

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

Duration: 1 hr

Scoring: 75 points

LESSON 10: DIAGNOSTIC**Diagnostic: Linear Equations**

Take a diagnostic test that will create a study plan based on your answers.

Duration: 0 hr

40 min Scoring: 40 points

UNIT 5: FUNCTION TRANSFORMATIONS

LESSON 1: GRAPHING AND MANIPULATING $Y = MX + B$ **Study: Graphing and Manipulating $y = mx + b$**

Learn, describe, and predict how changing the values of m and b in the slope-intercept equation of a line changes the graph of the equation.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Graphing and Manipulating $y = mx + b$

Take a quiz to assess your understanding of the material.

Duration: 0 hr

25 min Scoring: 20 points

LESSON 2: SHIFTING FUNCTIONS**Study: Shifting Functions**

Learn about shifting graphs of functions up/down and left/right by changing the coordinates of each ordered pair. Learn about changing the equation of a function to shift its graph vertically or horizontally and about combining vertical and horizontal shifts.

Duration: 0 hr 50 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Shifting Functions Vertically

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 18 points

Quiz: Shifting Functions Horizontally

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 16 points

Quiz: Shifting Functions Vertically and Horizontally

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 18 points

LESSON 3: STRETCHING FUNCTIONS VERTICALLY**Study: Stretching Functions Vertically**

Learn about vertically stretching or compressing a function's graph by multiplying by a constant; flipping the graph by multiplying by a negative constant; and combining vertical stretches with vertical or horizontal shifts.

Duration: 0 hr 50 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Stretching Functions Vertically

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 20 points

Study: Solving the Ball-Tossing Problem

Learn about shifting and stretching graphs and using inverses and about how to apply these methods to the real-world problem of tossing a ball. Learn about using average velocity as an estimate of instantaneous velocity.

Duration: 0 hr 50 min

LESSON 4: TRANSFORMATIONS OF PARENT FUNCTIONS**Study: Transformations of Parent Functions**

Learn how to perform vertical shifts, horizontal shifts, vertical stretches and compressions, horizontal stretches and compressions, and any combination of these transformations on parent functions.

Duration: 0 hr 50 min Scoring: 0 points

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Transformations of Parent Functions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 30 points

LESSON 5: FUNCTION TRANSFORMATIONS WRAP-UP**Test (CS): Function Transformations**

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

Duration: 1 hr Scoring: 75 points

LESSON 6: DIAGNOSTIC

Diagnostic: Function Transformations

Take a diagnostic test that will create a study plan based on your answers.

Duration: 0 hr 40 min Scoring: 42 points

UNIT 6: SYSTEMS OF EQUATIONS

LESSON 1: FORMULATING SYSTEMS OF EQUATIONS

Study: Formulating Systems of Equations

Learn how to formulate mathematical equations from word problems that are described by a system of two equations or inequalities.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Formulating Systems of Equations

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 20 points

LESSON 2: TWO-VARIABLE SYSTEMS: GRAPHING

Study: Two-Variable Systems: Graphing

Learn about graphing systems of two linear equations and investigating when and why systems of linear equations have no solutions, exactly one solution, or infinitely many solutions.

Duration: 0 hr 40

min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Solving with Graphing

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

30 points

LESSON 3: TWO-VARIABLE SYSTEMS: SUBSTITUTION

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Study: Two-Variable Systems: Substitution

Learn about replacing a variable with an equal value or expression in order to transform a two-variable equation into a one-variable equation. Learn about using the substitution method to solve systems of linear equations and about applying this method to the real-world problem of a rabbit catching a turtle.

Duration:

0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Solving with Substitution

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 30 points

LESSON 4: TWO-VARIABLE SYSTEMS: ELIMINATION

Study: Two-Variable Systems: Elimination

Strategize methods for eliminating a variable term when solving a system of linear equations. Practice adding or subtracting the same value from both sides of an equation in order to eliminate strategic terms. Change equations from nonstandard form to standard form so that they are easier to work with and adapt to the elimination method.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Solving with Elimination Standard Form

Take a quiz to assess your understanding of the material.

Duration: 0

hr 25 min Scoring: 30 points

Quiz: Solving with Elimination Non-Standard Form

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 26 points

LESSON 5: SYSTEMS OF EQUATIONS WRAP-UP

Test (CS): Systems of Equations

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

Duration: 1

LESSON 6: DIAGNOSTIC

Diagnostic: Systems of Equations

Take a diagnostic test that will create a study plan based on your answers.

Duration:

0 hr 40 min Scoring: 13 points

UNIT 7: POLYNOMIALS

LESSON 1: WHAT IS A POLYNOMIAL?

Study: What is a Polynomial?

Learn the definitions of monomials, polynomials, constants, terms, coefficients, binomials, trinomials, and degree. Learn about finding degrees of polynomials.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Degrees of Polynomials

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

30 points

Quiz: Degrees of Polynomials (Advanced)

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 30 points

LESSON 2: ADDING AND SUBTRACTING POLYNOMIALS

Study: Adding and Subtracting Polynomials

Learn about using tiles to represent, add, and subtract polynomials and about adding and subtracting polynomials by collecting like terms. Apply these methods to the real-world problem of purchasing streetlamps.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Polynomial Addition with Tiles

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 30 points

Quiz: Polynomial Addition

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 28

points

Quiz: Polynomial Subtraction

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

16 points

LESSON 3: MULTIPLYING BINOMIALS

Study: Multiplying Binomials

Learn about using tiles to multiply linear binomials; using the distributive property to simplify and find the product of two binomials; and the FOIL (first, outer, inner, last) method of finding products.

Duration: 0 hr 40

min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Finding Products of Binomials

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 28 points

Quiz: Finding the Product of Two Binomials

Take a quiz to assess your understanding of the material.

Duration: 0 hr

25 min Scoring: 30 points

Quiz: The FOIL Method

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 16

points

LESSON 4: MULTIPLYING POLYNOMIALS

Study: Multiplying Polynomials

Learn about using a table to multiply polynomials; using the distributive property; and multiplying polynomials by arranging them vertically.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Polynomial Multiplication

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 22 points

Quiz: Polynomial Multiplication (Advanced)

Take a quiz to assess your understanding of the material.

Duration: 0 hr

25 min Scoring: 28 points

LESSON 5: GRAPHING POLYNOMIALS

Study: Graphing Polynomials

Learn about graphs as pictures of solution sets. Use a table to find and graph solutions to polynomial equations. Explore why these graphs are always continuous curves. Graph higher-degree polynomial equations by plotting their corresponding points and identifying their parts, such as extreme values (maximum and minimum) and roots.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Finding Extreme Values

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

24 points

Quiz: Finding Roots of Graphs

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

22 points

Study: The Stereo Problem

Apply the method of graphing polynomials in order to solve the real-world problem of finding

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the relationship between the price of stereos and sales figures.

Duration: 0 hr 40 min

LESSON 6: POLYNOMIALS WRAP-UP

Test (CS): Polynomials

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

Duration: 1 hr Scoring:

75 points

LESSON 7: DIAGNOSTIC

Diagnostic: Polynomials

Take a diagnostic test that will create a study plan based on your answers.

Duration: 0 hr 40

min Scoring: 23 points

UNIT 8: FACTORING QUADRATIC EXPRESSIONS

LESSON 1: WHY FACTOR?

Study: Why Factor?

Learn about composite numbers, reducible polynomials, and the zero product rule.

Duration: 0 hr

40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Factoring Polynomials

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

30 points

LESSON 2: FACTORING AND GRAPHING

Study: Factoring and Graphing

Learn about the connection between roots and linear factors; using roots on graphs of

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polynomials to find linear factors; and polynomials with no linear factors or repeated linear factors.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Factoring by Graphing

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

28 points

Quiz: Factoring by Graphing (Advanced)

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 22 points

LESSON 3: GROUPING

Study: Grouping

Learn about polynomials with terms that have a common factor; applying the distributive property in reverse to factor out common factors; and finding the greatest common factor.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Factoring by Grouping

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

30 points

Quiz: Finding GCFs of Polynomials

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 16 points

LESSON 4: FACTORING $x^2 + bx + c$

Study: Factoring $x^2 + bx + c$

Learn about factoring quadratic trinomials with leading coefficients of 1; rules for finding the constant term and coefficient of the x-term; using a table to factor trinomials; and diagramming signs while factoring trinomials.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Binomial Factors of Trinomials

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 30 points

Quiz: Factoring Trinomials

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 30

points

LESSON 5: FACTORING $AX^2 + BX + C$

Study: Factoring $ax^2 + bx + c$

Learn about factoring trinomials with leading coefficients other than 1; factoring out a leading coefficient of -1; how values of factors relate to values of a trinomial; finding factor pairs of leading coefficients and constant terms; and finding signs in factors of trinomials with a leading coefficient different from 1.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Factoring Trinomials (Basic)

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 30 points

Quiz: Factoring Trinomials (Advanced)

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 30 points

LESSON 6: SPECIAL CASES

Study: Special Cases

Learn about recognizing and factoring a difference of squares; perfect-square trinomials; sums; and differences of two cubes.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Factoring a Difference of Squares

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 30 points

Quiz: Factoring Perfect Square Trinomials

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 20 points

Quiz: Sum or Difference of Two Cubes

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 30 points

LESSON 7: SOLVING WITH ROOTS AND POWERS

Study: Solving with Roots and Powers

Review solving equations with square roots and absolute values. Review solving inequalities with square roots and absolute values, including by using a number line.

Duration: 0 hr 50 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Solving with Roots and Powers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 16 points

Quiz: Solving Inequalities with Roots and Powers

Take a quiz to assess your understanding of the material.

Duration:

0 hr 25 min Scoring: 16 points

Quiz: Finding Solution Sets with Inequalities

Take a quiz to assess your understanding of the material.

Duration: 0 hr

25 min Scoring: 16 points

LESSON 8: SOLVING QUADRATIC EQUATIONS

Study: Solving Quadratic Equations

Learn about solving quadratic equations using factoring and the zero product rule; manipulating a quadratic equation into standard form; and solving quadratic equations with perfect-square trinomials.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Factoring with the Zero Product Rule

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 28 points

Quiz: Converting Quadratics to Standard Form

Take a quiz to assess your understanding of the material.

Duration: 0

hr 25 min Scoring: 28 points

Quiz: Quadratics with Perfect Square Trinomials

Take a quiz to assess your understanding of the material.

Duration: 0

hr 25 min Scoring: 16 points

LESSON 9: COMPLETING THE SQUARE

Study: Completing the Square

Learn about solving quadratic equations without perfect-square trinomials; completing the square using tiles; and completing the square when the coefficients are more complicated.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Completing the Square

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring:

24 points

Quiz: Completing the Square (Advanced)

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

LESSON 10: THE QUADRATIC FORMULA

Study: The Quadratic Formula

Learn about types of equations that can be solved using the quadratic formula; complex numbers; discriminants; and finding roots (including complex roots) using the quadratic formula.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Complex Numbers and Discriminants

Take a quiz to assess your understanding of the material.

Duration: 0 hr

25 min Scoring: 30 points

Quiz: The Quadratic Formula

Take a quiz to assess your understanding of the material.

Duration: 0 hr 30 min Scoring:

30 points

LESSON 11: GRAPHS OF QUADRATIC FUNCTIONS

Study: Graphs of Quadratic Functions

Relate factors of a quadratic function to the graph of a parabola and its corresponding x-intercepts. Locate the vertex of a quadratic function graphically and algebraically. Use the discriminant of the quadratic formula to identify the number and types of solutions to a given quadratic equation, as well as to visualize its corresponding graph.

Duration: 0 hr 50 min

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Quiz: Graphs of Quadratic Functions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 30 points

Quiz: Working with the Discriminant

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 20 points

LESSON 12: FACTORING QUADRATIC EXPRESSIONS WRAP-UP

Test (CS): Factoring Quadratic Expressions

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

Duration: 1 hr Scoring: 75 points

LESSON 13: DIAGNOSTIC

Diagnostic: Factoring Quadratic Expressions

Take a diagnostic test that will create a study plan based on your answers.

Duration: 0 hr 40 min Scoring: 40 points

UNIT 9: RATIONAL AND RADICAL EXPRESSIONS

LESSON 1: RATIONAL EXPRESSIONS

Study: Rational Expressions

Learn about finding the value of a rational expression and about undefined rational expressions.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 25 min

Quiz: Rational Expressions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 16 points

LESSON 2: SIMPLIFYING RATIONAL EXPRESSIONS

Study: Simplifying Rational Expressions

Practice finding and dividing out common factors in numerators and denominators of rational expressions. Explore the crucial difference between common factors and terms.

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*Duration: 0 hr 40
min*

Checkpoint: Practice Problems

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

Duration: 0 hr 25 min

Quiz: Simplifying Rational Expressions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25

min Scoring: 16 points

LESSON 3: MULTIPLYING AND DIVIDING RATIONAL EXPRESSIONS

Study: Multiplying and Dividing Rational Expressions

Review multiplying and dividing numerical fractions, multiplying rational expressions, dividing rational expressions, and simplifying the results.

Duration: 0 hr 40 min

Checkpoint: Practice Problems

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

Duration: 0 hr 25 min

Quiz: Multiplying Rational Expressions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 18 points

Quiz: Dividing Rational Expressions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 18 points

LESSON 4: ADDING AND SUBTRACTING RATIONAL EXPRESSIONS

Study: Adding and Subtracting Rational Expressions

Review adding and subtracting numerical fractions; adding and subtracting rational expressions with like denominators; finding least common denominators; multiples of rational expressions; and adding and subtracting rational expressions with unlike denominators.

Duration: 0 hr 40 min

Checkpoint: Practice Problems

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

Duration: 0 hr 25 min

Quiz: Adding and Subtracting Rational Expressions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 22 points

LESSON 5: RATIONAL EQUATIONS

Study: Rational Equations

Learn how to solve simple rational equations.

Duration: 0 hr 50 min Scoring: 0 points

Checkup: Practice Problems

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

Duration: 0 hr 30 min

Scoring: 0 points

Quiz: Rational Equations

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 20 points

LESSON 6: BASICS OF RADICALS

Study: Basics of Radicals

Learn the definition of radical expression. Explore simplifying the product and quotient of radicals and simplifying individual radicals.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 25 min

Quiz: Simplifying Products of Radicals

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 30 points

Quiz: Simplifying Quotients of Radicals

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 30 points

LESSON 7: MULTIPLYING AND DIVIDING RADICALS

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Study: Multiplying and Dividing Radicals

Learn about multiplying and dividing radical expressions that include variables and about using the FOIL (first, inner, outer, last) method to simplify radical expressions.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 25 min

Quiz: Multiplying Radicals

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 30

points

Quiz: Dividing Radicals

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min Scoring: 28

points

LESSON 8: ADDING AND SUBTRACTING RADICALS

Study: Adding and Subtracting Radicals

Learn about adding and subtracting radical expressions by combining like terms and about simplifying terms to get the same radicand.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 25 min

Quiz: Adding and Subtracting Radicals

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 30 points

LESSON 9: RATIONALIZING DENOMINATORS

Study: Rationalizing Denominators

Learn about rationalizing a denominator in order to simplify a fraction with a radical expression in the denominator. Learn about multiplying by the conjugate of a denominator.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 25 min

Quiz: Rationalizing Denominators

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 30 points

LESSON 10: SOLVING RADICAL EQUATIONS

Study: Solving Radical Equations

Learn how to solve equations with radical expressions by isolating the radical and squaring both sides.

Duration: 0 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 25 min

Quiz: Solving Radical Equations

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min

Scoring: 30 points

Study: Applications of Radical Equations

Explore case studies in order to practice methods of solving radical equations in applied settings.

Duration: 0 hr 40 min

LESSON 11: RATIONAL AND RADICAL EXPRESSIONS WRAP-UP

Test (CS): Rational and Radical Expressions

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

Duration: 1 hr Scoring: 75 points

LESSON 12: DIAGNOSTIC

Diagnostic: Rational and Radical Expressions

Take a diagnostic test that will create a study plan based on your answers.

Duration: 0 hr 40 min Scoring: 49 points

UNIT 10: DATA ANALYSIS

LESSON 1: CATEGORICAL DATA

Study: Categorical Data

Learn how to construct and interpret bar charts, pie graphs, and comparative bar charts.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to check your understanding of the lesson.

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Categorical Data

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min Scoring: 20

points

LESSON 2: MEASURES OF CENTER

Study: Measures of Center

Learn how to calculate and interpret measures of center, such as mean, median, and mode.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

Complete a set of practice problems to check your understanding of the lesson.

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Measures of Center

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min Scoring: 20

points

LESSON 3: BOX PLOTS

Study: Box Plots

Learn how to calculate and interpret box plots, comparative box plots, and modified box plots.

Duration: 0 hr 40 min Scoring: 0 points

Checkpoint: Practice Problems

Complete a set of practice problems to check your understanding of the lesson.

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Box Plots

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min Scoring: 20 points

LESSON 4: SCATTERPLOTS

Study: Scatterplots

Learn how to construct and interpret scatterplots.

Duration: 0 hr 40 min Scoring: 0 points

Checkpoint: Practice Problems

Complete a set of practice problems to check your understanding of the lesson.

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Scatterplots

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min Scoring: 20 points

LESSON 5: LINEAR REGRESSION

Study: Linear Regression

Learn how to calculate a linear regression equation, interpret the slope and intercept in context, and identify influential points (compared to large residuals).

Duration: 0 hr 40 min Scoring: 0 points

Checkpoint: Practice Problems

Complete a set of practice problems to check your understanding of the lesson.

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Linear Regression

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min Scoring: 20

points

LESSON 6: DATA ANALYSIS WRAP-UP

Test (CS): Data Analysis

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

Duration: 1 hr

Scoring: 75 points

LESSON 7: DIAGNOSTIC

Diagnostic: Data Analysis

Take a diagnostic test that will create a study plan based on your answers.

Duration: 0 hr 40

min Scoring: 34 points

UNIT 11: FLORIDA MATH FOR COLLEGE SUCCESS EXAM

LESSON 1: FLORIDA MATH FOR COLLEGE SUCCESS EXAM

Exam: Florida Math for College Success Exam

Take a computer-scored exam to demonstrate your mastery of concepts and skills covered in Florida Math for College Success.

Duration: 1 hr Scoring: 200 points