

| TX-A  | dvanced Math 8                                    | Scope and Sequence  |
|-------|---|---|
| Unit  | Lesson  | Objectives  |
| Linea | ar Expressions, Equations, and Inequa             | lities: Part One  |
|       | Expressions in One Variable                       |   |
|       |   | Identify parts of an expression.  |
|       |   | Interpret expressions that represent a quantity in terms of its context.  |
|       |   | Write expressions to represent scenarios.   |
|       |   | Evaluate one-variable expressions.  |
|       | Solving Linear Equations: Variable on One Side    |   |
|       |   | Determine the input value that produces the same output value for two functions from a table or graph.  |
|       |   | Explain the steps used to solve a one-variable linear equation having the variable on one side only.  |
|       |   | Solve one-variable linear equations having the variable on one side only, pointing out solutions that are viable on ot viable in a modeling context.                                |
|       |   | Create one-variable linear equations, having the variable on one side only, to model and solve problems.  |
|       | Solving Linear Equations: Variables on Both Sides |   |
|       |   | Explain the steps used to solve a one-variable linear equation having the variable on both sides.   |
|       |   | Solve one-variable linear equations having the variable on both sides using tables, graphs, or algebra, pointing out solutions that are viable or not viable in a modeling context. |
|       |   | Create one-variable linear equations, having the variable on both sides, to model and solve problems.   |
|       | Solving Linear Equations: Distributive Property   |   |
|       |   | Solve one-variable linear equations involving the distributive property.  |
|       |   | Determine if a one-variable linear equation has zero, one, or infinite solutions.   |
|       |   | Create one-variable linear equations involving the distributive property to model and solve problems.   |
|       |   |   |

| TX-A  | dvanced Math 8                        | Scope and Sequence   |
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| Unit  | Lesson                                | Objectives   |
|       | Solving Mixture Problems              |  |
|       |                                       | Use a table to organize information given in mixture problems.   |
|       |                                       | Write and solve one-variable linear equations to model and solve mixture problems.   |
|       | Solving Rate Problems                 |  |
|       |                                       | Use a table to organize information given in time-distance-rate and work problems.   |
|       |                                       | Write and solve one-variable linear equations to model and solve time-distance-rate and work problems.   |
|       | Unit Test                             |  |
| Linea | ar Expressions, Equations, and Inequa | ilities: Part Two  |
|       | Equations in One Variable             |  |
|       |                                       | Explain the steps used to solve a two-step, one-variable linear equation.  |
|       |                                       | Create two-step, one-variable linear equations to model problems.  |
|       |                                       | Solve two-step, one-variable linear equations and simple absolute value equations, pointing out solutions that are viable or not viable in a modeling context. |
|       | Performance Task: Tablet Time         |  |
|       | Literal Equations                     |  |
|       |                                       | Rearrange a literal equation to highlight a quantity of interest and use it to solve problems.   |
|       | Solving One-Variable Inequalities     |  |
|       |                                       | Explain the steps used to solve a multistep one-variable linear inequality.  |
|       |                                       | Solve multistep one-variable linear inequalities.  |
|       |                                       | Graph the solution sets of one-variable linear inequalities.   |
|       | Inequalities in One Variable          |  |

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| Unit Lesson                           | Objectives   |
|                                       | Explain the steps used to solve a two-step one-variable linear inequality.   |
|                                       | Solve two-step one-variable linear inequalities, and state the solution in set or interval notation or graph it on a number line.                  |
|                                       | Create two-step one-variable linear inequalities to model and solve problems, pointing out solutions that are viable or not viable in the context. |
| Introduction to Compound Inequalities | ies  |
|                                       | Write compound inequalities to model problems.   |
|                                       | Relate the solution set of a compound inequality to its graph.   |
| Solving Compound Inequalities         |  |
|                                       | Solve one-variable compound inequalities, pointing out solutions that are viable or not viable in a modeling context, and graph the solutions.     |
|                                       | Create one-variable compound linear inequalities to model and solve problems.  |
| Unit Test                             |  |
| Introduction to Functions             |  |
| Introduction to Functions             |  |
|                                       | Determine the domain and range of a functional relationship given in a mapping diagram, table, graph, or scenario.                                 |
|                                       | Analyze a mapping diagram, table, graph, or scenario to recognize functional relationships.  |
| Evaluating Functions                  |  |
|                                       | Analyze a function represented by an equation, table, or graph to determine the output when given the input, and vice versa.                       |
|                                       | Find input and output values of two functions graphed in the same coordinate plane.  |
|                                       | Write the inverse of a given linear function.  |
| Using Function Notation               |  |

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| Unit Lesson                                       | Objectives   |
|   | Identify the domain and range of a function.   |
|   | Use function notation to describe and evaluate a function.   |
| Writing and Graphing Equations in Tw<br>Variables | 70   |
|   | Construct a table of values and a graph for a two-variable linear equation that models a situation, pointing out solutions that are viable or not viable based on the context. |
|   | Write a two-variable linear equation to model a quantitative relationship, describing the constraints of the model based on the context.                                       |
|   | Interpret graphs and rates by examining the quantities represented by each axis.   |
| Linear vs. Nonlinear Functions                    |  |
|   | Interpret the rate of change from a graph or table.  |
|   | Differentiate functions as either linear or nonlinear.   |
| Unit Test   |  |
| Investigation of Linear Functions and Ine         | qualities: Part One  |
| Introduction to Linear Functions                  |  |
|   | Calculate the rate of change of a function and, if constant, the initial value of the function.  |
|   | Determine if a relationship is linear by analyzing the rate of change.   |
|   | Calculate the rate of change of a function and, if constant, the initial value of the function.  |
| Constructing Linear Functions                     |  |
|   | Analyze linear functions to find the rate of change and initial value.   |
|   | Interpret the rate of change and initial value of a linear function in terms of the situation it models.   |
| Rate of Change and Introduction to Slope          |  |
|   | Determine the positive slope of a line from a table and a graph.   |

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| Unit Lesson                      | Objectives  |
|                                  | Compare positive slopes in a real-world situation.  |
| Exploring Slope                  |   |
|                                  | Recognize the difference between positive slope, negative slope, no slope, and zero slope.  |
|                                  | Determine the value of the slope of a line from a table or a graph.   |
| Proportional Relationships       |   |
|                                  | Determine whether a linear function is a direct variation.  |
|                                  | Solve problems involving direct variation.  |
|                                  | Compare proportional and nonproportional linear functions in the form of a table, graph, and equation.                                |
| Slope of a Line                  |   |
|                                  | Identify if the slope of a linear relationship is zero, positive, negative, or undefined.   |
|                                  | Determine the slope of a line from a graph, table of values, or ordered pairs.  |
|                                  | Interpret slope in the context of real-world scenarios.   |
| Unit Test                        |   |
| nvestigation of Linear Functions | and Inequalities: Part Two  |
| Slope-Intercept Form of a Lin    | e e   |
|                                  | Identify the slope and y-intercept of a linear function, and use them to graph the function.  |
|                                  | Write a linear function, in slope-intercept form, for a given relationship.   |
|                                  | Analyze how a change in a parameter of a linear function affects its graph or the scenario it represents.                             |
| Point-Slope Form of a Line       |   |
|                                  | Write the equation of a line given its slope and a point on the line in point-slope form, and express the relationship as a function. |
|                                  | Graph a line given its equation in point-slope form, identifying the slope and intercepts.  |

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| Unit  | Lesson   | Objectives   |
|       | Standard Form of a Line                        |  |
|       |  | Write the equation of a line in standard form given a graph or scenario.   |
|       |  | Graph a line given its equation in standard form, identifying the slope and intercepts.  |
|       | Similar Triangles and Slope                    |  |
|       |  | Interpret similar triangles created by intersecting transversal and parallel lines.  |
|       |  | Find unknown measurements of similar triangles.  |
|       |  | Use similar triangles in the coordinate plane to write linear equations.   |
|       | Graphing Two-Variable Linear Inequalities      |  |
|       |  | Relate the graph of a two-variable linear inequality to its algebraic representation.  |
|       | Modeling with Two-Variable Linear Inequalities |  |
|       |  | Create a two-variable linear inequality to model a problem.  |
|       |  | Graph the solutions to a two-variable linear inequality.   |
|       |  | Interpret the solutions of a two-variable linear inequality in a modeling context.   |
|       | Unit Test                                      |  |
| Appli | cation of Linear Functions                     |  |
|       | Writing and Solving Equations in Two Variables |  |
|       |  | Solve for an unknown quantity in a two-variable linear equation, given one of the values.  |
|       |  | Determine a two-variable linear equation that represents a scenario, identifying constraints on the variables in terms of the context. |
|       | Writing Two-Variable Linear Equations          |  |

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| Unit Lesson                                   | Objectives   |
|   | Create linear equations given information about points, slope, and intercepts.   |
|   | Solve problems by writing two-variable linear equations.   |
| Equations of Parallel and Perpendicular Lines |  |
|   | Determine the slope of a line that is parallel or perpendicular to a given line.                                       |
|   | Write the equation of a line that contains a given point and is parallel or perpendicular to a given line.             |
|   | Given two lines, verify mathematically that the lines are parallel or perpendicular.                                   |
| Line of Best Fit                              |  |
|   | Determine if a data set shows a correlation and, if so, the type of correlation.                                       |
|   | Use technology to determine the line of best fit for a data set, and interpret the parameters of the model in context. |
|   | Use a line of best fit to make a prediction.   |
|   | Determine if a given linear function is a reasonable model for a set of data arising from a real-world situation       |
| Strength of Correlation                       |  |
|   | Calculate the correlation coefficient for a linear model using technology.   |
|   | Interpret the strength of a linear model based on the correlation coefficient.   |
|   | Analyze data to draw conclusions about correlation and causation.  |
| Unit Test                                     |  |
| Systems of Linear Equations and Inequ         | alities  |
| Introduction to Systems of Linear Equations   |  |
|   | Create a system of linear equations to model a problem.  |
|   | Solve a system of linear equations graphically, using technology as a tool for finding the solution, when appropriate. |

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| Unit | Lesson  | Objectives   |
|      |   | Interpret the solution of a system of linear equations in a modeling context.  |
|      | Solving Systems of Linear Equations: Graphing               |  |
|      |   | Use technology to find or approximate the solution of a system of linear equations graphically.  |
|      |   | Analyze a system of linear equations to determine if it has one solution, no solution, or infinitely many solutions.   |
|      | Solving Systems of Linear Equations:<br>Substitution        |  |
|      |   | Solve a system of linear equations using substitution.   |
|      |   | Interpret the solution of a system of linear equations in a modeling context.  |
|      | Solving Systems: Introduction to Linear Combinations        |  |
|      |   | Solve systems of linear equations using linear combinations, limiting the systems to those that do not require multiples of both equations.  |
|      |   | Interpret the solution of a system of linear equations in a modeling context.  |
|      |   | Verify that, given a system of two equations in two variables, replacing one equation by the sum of that equation and a multiple of the other produces a system with the same solutions. |
|      | Solving Systems of Linear Equations:<br>Linear Combinations |  |
|      |   | Solve a system of linear equations using linear combinations.  |
|      |   | Interpret the solution of a system of linear equations in a modeling context.  |
|      | Modeling with Systems of Linear Equations                   |  |
|      |   | Create a system of linear equations to model a problem.  |

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| Unit | Lesson                                       | Objectives   |
|      |  | Interpret the solution of a system of linear equations in a modeling context.                      |
|      | Solving Systems of Linear Inequalities       |  |
|      |  | Identify solutions of a system of two-variable linear inequalities.                                |
|      |  | Graph a system of two-variable linear inequalities.  |
|      |  | Determine a system of two-variable linear inequalities given a solution set.                       |
|      | Modeling with Systems of Linear Inequalities |  |
|      |  | Create a system of two-variable linear inequalities to model a problem.                            |
|      |  | Graph the solutions to a system of two-variable linear inequalities.                               |
|      |  | Interpret the solutions to a system of two-variable linear inequalities in a modeling context.     |
|      | Unit Test                                    |  |
| Cumi | ulative Exam                                 |  |
|      | Cumulative Exam Review                       |  |
|      | Cumulative Exam                              |  |
| Laws | of Exponents, Expressions, and Fact          | oring: Part One  |
|      | Adding and Subtracting Polynomials           |  |
|      |  | Add and subtract polynomials, determining the degree and number of terms of the sum or difference. |
|      |  | Find and evaluate polynomial sums or differences that model real-world situations.                 |
|      | Laws of Exponents                            |  |
|      |  | Apply the properties of whole-number exponents to generate equivalent expressions.                 |
|      | Rational Exponents                           |  |
|      |  | Evaluate numeric expressions using properties of rational exponents.                               |
|      |  | Simplify algebraic expressions using properties of rational exponents.                             |

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| Unit | Lesson  | Objectives  |
|      | Multiplying Monomials and Binomials                 |   |
|      |   | Multiply a binomial by a monomial or binomial algebraically and by using geometric models.  |
|      |   | Identify a product that results in the difference of squares or a perfect square trinomial.   |
|      | Multiplying Polynomials and Simplifying Expressions |   |
|      |   | Multiply a binomial by a trinomial algebraically and by using geometric models.   |
|      |   | Interpret the structure of an expression involving addition, subtraction, and multiplication of polynomials in order to write it as a single polynomial in standard form. |
|      | Polynomial Division                                 |   |
|      |   | Divide a polynomial of degree one or two by a polynomial of equal or lower degree.  |
|      | Unit Test   |   |
| Laws | of Exponents, Expressions, and Factor               | oring: Part Two   |
|      | Factoring Polynomials: GCF                          |   |
|      |   | Determine the greatest common monomial factor of two or more terms.   |
|      |   | Write a polynomial as the product of a monomial and polynomial having the same number of terms.   |
|      |   | Determine an appropriate way to factor a polynomial for a given context.  |
|      | Factoring Polynomials: Double Grouping              |   |
|      |   | Factor a polynomial by double grouping or indicate that the polynomial is prime.  |
|      | Factoring Trinomials: a = 1                         |   |
|      |   | Determine if a trinomial with a leading coefficient of 1 and a positive constant is factorable and, if so, write it in factored form.                                     |
|      |   | Relate the factorization of a trinomial with a leading coefficient of 1 and a positive constant to a geometric  |

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| Unit | Lesson   | Objectives  |
|      | Factoring Trinomials: a = 1 (Continued)            |   |
|      |  | Determine if a trinomial with a leading coefficient of 1 and a negative constant is factorable and, if so, write it in factored form.                           |
|      |  | Relate the factorization of a trinomial with a leading coefficient of 1 and a negative constant to a geometric model.   |
|      | Factoring Trinomials: a > 1                        |   |
|      |  | Determine if a trinomial with a leading coefficient greater than 1 is factorable and, if so, write it in factored form.   |
|      |  | Relate the factorization of a trinomial with a leading coefficient greater than 1 to a geometric model.   |
|      | Factoring Polynomials: Difference of Squares       |   |
|      |  | Identify a monomial that is a perfect square and find the square root.  |
|      |  | Determine if a polynomial is factorable by recognizing that it is a difference of two squares and, if so, applying the identity.                                |
|      | Unit Test  |   |
| Quad | Iratic Equations and Simplification of I           | Numerical Radical Expressions   |
|      | Solving Quadratic Equations: Zero Product Property |   |
|      |  | Solve problems by factoring quadratic equations given in standard form.   |
|      |  | Write quadratic equations given rational solutions.   |
|      | Solving Quadratic Equations: Factoring             |   |
|      |  | Write a quadratic equation that models a scenario.  |
|      |  | Solve problems by rewriting quadratic equations in standard form and factoring, pointing out the solutions that are viable or not viable in a modeling context. |
|      | Solving Quadratic Equations: Square Root Property  |   |
|      |  | Use the square root property to solve quadratic equations.  |

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| Unit | Lesson  | Objectives   |
|      | Solving Quadratic Equations:<br>Completing the Square             |  |
|      |   | Solve a quadratic equation whose leading coefficient is 1 by completing the square.  |
|      | Solving Quadratic Equations:<br>Completing the Square (Continued) |  |
|      |   | Solve a quadratic equation whose leading coefficient is greater than 1 by completing the square.   |
|      | Introduction to the Quadratic Formula                             |  |
|      |   | Justify the steps used to derive the quadratic formula by completing the square.   |
|      |   | Determine the values of a, b, and c from a given quadratic equation in standard form.  |
|      |   | Recognize an expression that uses the quadratic formula to find the solutions of a quadratic equation.   |
|      |   | Relate the discriminant in the quadratic formula to the types of solutions of a quadratic equation.  |
|      | Solving Quadratic Equations:<br>Quadratic Formula                 |  |
|      |   | Solve a quadratic equation using the quadratic formula.  |
|      |   | Determine the number of real zeros of a quadratic function by finding the values of a, b, and c, and then calculating the discriminant.                                |
|      | Modeling with Quadratic Equations                                 |  |
|      |   | Write and solve quadratic equations to model real-world scenarios, estimating where appropriate and identifying solutions that are not viable in terms of the context. |
|      | The Square Root Function  |  |
|      |   | Simplify a square root whose radicand is a perfect square.   |
|      |   | Graph the square root function and reflections over the axes.  |
|      |   | State the domain and range of square root functions.   |

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| Unit  | Lesson                                 | Objectives   |
|       |  |  |
|       | Rewriting Expressions with Radicals    |  |
|       |  | Use operations to rewrite expressions involving radicals.  |
|       | Unit Test                              |  |
| Inves | stigation and Application of Quadratic | Functions  |
|       | Introduction to Quadratic Functions    |  |
|       |  | Identify a quadratic function and the values of the coefficients and constant from the standard form.                                    |
|       |  | Evaluate a quadratic function using tables, graphs, and equations.   |
|       |  | Calculate the rate of change of a quadratic function over an interval of its domain, and compare it to linear and exponential functions. |
|       | Quadratic Functions: Standard Form     |  |
|       |  | Graph a quadratic function given in standard form, identifying the key features of the graph.  |
|       | Quadratic Functions: Factored Form     |  |
|       |  | Multiply a binomial by a monomial or binomial algebraically and by using geometric models.   |
|       |  | Identify a product that results in the difference of squares or a perfect square trinomial.  |
|       | Quadratic Functions: Vertex Form       |  |
|       |  | Graph a quadratic function given in vertex form, identifying the key features of the graph.  |
|       |  | Relate the parameters of a quadratic function in vertex form to transformations of the graph $y = x^2$ .                                 |
|       | Completing the Square                  |  |
|       |  | Relate the geometric model of completing the square to the algebraic process.  |
|       |  | Write quadratic functions given in standard form and with a = 1 into vertex form by completing the square.                               |
|       |  | Determine key aspects of the graph of a quadratic function given in standard form and with a = 1 by writing it in vertex form.           |

|       |   | Scope and Sequence  |
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| Init  | Lesson  | Objectives  |
|       |   | Relate the parameters of a quadratic function in vertex form to transformations of the graph $y = x2$ .   |
|       | Completing the Square (Continued)               |   |
|       |   | Write quadratic functions given in standard form into vertex form by completing the square.   |
|       |   | Determine key aspects of the graph of a quadratic function given in standard form by writing it in vertex form.   |
|       |   | Relate the parameters of a quadratic function in vertex form to transformations of the graph $y = x2$ .   |
|       | Modeling with Quadratic Functions               |   |
|       |   | Write quadratic functions to model problems.  |
|       |   | Use quadratic functions to solve mathematical and real-world problems.  |
|       | Quadratic Equations and their Related Functions |   |
|       |   | Relate the solutions of a quadratic equation to the x-intercepts of the related quadratic function, and use the function's graph to solve the equation. |
|       | Performance Task: Daredevil Danny               |   |
|       | Unit Test                                       |   |
| nvest | igation and Application of Exponentia           | al Functions  |
|       | Exponential Growth Functions                    |   |
|       |   | Identify an exponential growth function given tables, graphs, and function rules, determining the rate of change  |
|       |   | Graph an exponential growth function, and state the domain and range.   |
|       |   | State the domain and range of an exponential growth function.   |
|       |   | Write an exponential growth function to model a real-world problem, pointing out constraints in the modeling context.                                   |
|       | Exponential Decay Functions                     |   |
|       |   | Identify an exponential decay function given tables, graphs, and function rules, determining the rate of change.  |
|       |   | Graph an exponential decay function, and state the domain and range.  |

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| Unit Lesson                                       | Objectives   |
|   | Write an exponential decay function to model a real-world problem, pointing out constraints in the modeling context.                               |
|   | Relate exponential growth and decay functions using laws of exponents and reflections over the y-axis.   |
| Comparing Exponential, Linear, a Quadratic Growth | nd   |
|   | Use tables and graphs to compare the growth of an exponential function to the growth of a linear function over equal intervals.                    |
|   | Use tables and graphs to compare the growth of an exponential function to the growth of a quadratic or a polynomial function over equal intervals. |
|   | Use tables and graphs to show that exponential functions grow by equal factors over equal intervals.   |
| Introduction to Modeling with Func                | etions   |
|   | Analyze a data set to determine a linear, quadratic, or exponential function to model it.  |
|   | Write exponential functions and expressions in equivalent forms, using the properties of exponents to justify steps.                               |
| Regression Models                                 |  |
|   | Determine an exponential, quadratic, or linear model for a given data set using technology.  |
|   | Identify limitations of models in real-world contexts.   |
|   | Use a linear, quadratic, or exponential regression model to make a prediction.   |
|   | Interpret the graph of a regression model in the context of the problem.   |
| Unit Test   |  |
| Arithmetic and Geometric Sequences                |  |
| Recognizing Patterns                              |  |
|   | Analyze a sequence of numbers to determine the pattern, and identify whether it is arithmetic or geometric.  |
|   | Use a recursive rule to calculate a term of a sequence.  |

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| Unit Less   | son                            | Objectives  |
|             |                                | Write a recursive rule for a sequence.  |
| Spec        | cial Linear Relationships      |   |
| op o.       |                                | Determine if a relationship is a direct variation.  |
|             |                                | Find the constant of variation in a direct variation.   |
|             |                                | Write an equation for a direct variation.   |
|             |                                | Write recursive and explicit rules for arithmetic sequences using function notation.  |
| Geo         | metric Sequences               |   |
|             |                                | Write recursive and explicit rules for geometric sequences using function notation.   |
|             |                                | Graph and analyze geometric sequences as a special case of exponential functions with the domain restricted to natural numbers. |
| Unit        | Test                           |   |
| Patterns in | n Bivariate Data               |   |
| Cons        | structing Scatterplots         |   |
|             |                                | Create a scatterplot using a table of values.   |
|             |                                | Analyze a scatterplot.  |
|             |                                | Classify dependent and independent variables.   |
| Inter       | rpreting Clusters and Outliers |   |
|             |                                | Identify clusters and outliers in a scatterplot and table of values.  |
|             |                                | Analyze the influence outliers and clusters have on the data set.   |
|             |                                | Explain the meaning of clusters and outliers in context.  |
| Expl        | loring Association             |   |
|             |                                | Analyze the correlation and association in scatterplots.  |

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| Unit | Lesson                                   | Objectives   |
|      | Drawing Trend Lines                      |  |
|      |  | Use a graphing calculator to graph scatterplots and draw the trend line.                 |
|      |  | Draw a line of best fit in scatterplots and identify its purpose.                        |
|      | Using Equations to Represent Trend Lines |  |
|      |  | Find and interpret the slope of a trend line.  |
|      |  | Create the linear equation of the trend line.  |
|      | Making Predictions                       |  |
|      |  | Use a calculator to graph a scatterplot and create line of best fit.                     |
|      |  | Substitute x- and y-values into the data to create predictions of a real-world scenario. |
|      |  | Analyze data to determine interpolations and extrapolations.                             |
|      | Comparing Data Sets                      |  |
|      |  | Compare and contrast sets of data.   |
|      |  | Analyze data sets using the trend line.  |
|      | Unit Test                                |  |
| Cum  | ulative Exam                             |  |
|      | Cumulative Exam Review                   |  |
|      | Cumulative Exam                          |  |