Algebra 1 EOC Tested Benchmarks :: Gateway High School :: 2013-2014

Benchmarks	Description	Points
MA.912.A.2.3	**Describe the concept of a function, use function notation, determine whether a given relation is a function, and link equations to functions.**	**4**
MA.912.A.2.13	Solve real-world problems involving relations and functions.	
MA.912.A.2.4	**Determine the domain and range of a relation.**	**2**
MA.912.A.2.13	Solve real-world problems involving relations and functions.	
MA.912.A.3.1	**Solve linear equations in one variable that include simplifying algebraic expressions.**	**4**
MA.912.A.3.2	Identify and apply the distributive, associative, and commutative properties of real number and the properties of equality.	
MA.912.A.3.3	**Solve literal equations for a specified variable.**	**1**
MA.912.A.3.4	**Solve and graph simple and compound inequalities in one variable and be able to justify each step in a solution.**	**2**
MA.912.A.3.5	**Symbolically represent and solve multi-step and real-world applications that involve linear equations and inequalities.**	**3**
MA.912.A.3.8	**Graph a line given any of the following information: a table of values, the x- and yintercepts, two points, the slope and a point, the equation of the line in slope-intercept form, standard form, or point-slope form.**	**2**
MA.912.A.3.12	Graph a linear equation or inequality in two variables with and without graphing technology. Write an equation or inequality represented by a given graph.	
MA.912.A.3.9	**Determine the slope, x-intercept, and y-intercept of a line given its graph, its equation, or two points on the line.**	**4**
MA.912.A.3.12	Graph a linear equation or inequality in two variables with and without graphing technology. Write an equation or inequality represented by a given graph.	
MA.912.A.3.10	**Write an equation of a line given any of the following information: two points on the line, its slope and one point on the line, or its graph. Also, find an equation of a new line parallel to a given line, or perpendicular to a given line, through a given point on the new line.**	**4**
MA.912.A.3.7	Rewrite equations of a line into slope-intercept form and standard form.	
MA.912.A.3.12	Graph a linear equation or inequality in two variables with and without graphing technology. Write an equation or inequality represented by a given graph.	
MA.912.G.1.4	Use coordinate geometry to find slopes, parallel lines, perpendicular lines, and equations of lines.	
MA.912.A.3.11	**Write an equation of a line that models a data set, and use the equation or the graph to make predictions. Describe the slope of the line in terms of the data, recognizing that the slope is the rate of change.**	**2**
MA.912.A.3.12	Graph a linear equation or inequality in two variables with and without graphing technology. Write an equation or inequality represented by a given graph.	
MA.912.A.3.14	**Solve systems of linear equations and inequalities in two and three variables using graphical, substitution, and elimination methods.**	**3**
MA.912.A.3.13	Use a graph to approximate the solution of a system of linear equations or inequalities in two variables with and without technology.	
MA.912.A.3.15	Solve real-world problems involving systems of linear equations and inequalities in two and three variables.	
MA.912.A.4.1	**Simplify monomials and monomial expressions using the laws of integral exponents.**	**3**
MA.912.A.4.2	**Add, subtract, and multiply polynomials.**	**3**
MA.912.A.4.3	**Factor polynomial expressions.**	**3**
MA.912.A.5.1	Simplify algebraic ratios	
MA.912.A.4.4	**Divide polynomials by monomials and polynomials with various techniques, including synthetic division.**	**1**
MA.912.A.5.4	**Solve algebraic proportions**	**2**
MA.912.A.6.2	**Add, subtract, multiply, and divide radical expressions (square roots and higher).**	**1**
MA.912.A.6.1	Simplify radical expressions.	
MA.912.A.7.1	**Graph quadratic equations with and without graphing technology.**	**1**
MA.912.A.7.8	Use quadratic equations to solve real-world problems.	
MA.912.A.7.2	**Solve quadratic equations over the real number s by factoring and by using the quadratic formula.**	**3**
MA.912.A.1.8	Use the zero product property of real numbers in a variety of contexts to identify solutions to equations.	
MA.912.A.7.8	Use quadratic equations to solve real-world problems.	
MA.912.D.7.1	**Perform set operations such as union and intersection, complement, and cross product.**	**3**
MA.912.D.7.2	**Use Venn diagrams to explore relationships and patterns and to make arguments about relationships between sets.**	**3**