

Benchmark Number	Descriptor	Subject Area	Grade Level	Body Of Knowledge	Algebra 1	Geometry	Algebra 2
MA.912.A.1.1	Know equivalent forms of real numbers (including integer exponents and radicals, percents, scientific notation, absolute value, rational numbers, irrational numbers).	Mathematics	912	Algebra	1.1, 1.3, 1.7, 12.3		1.1
MA.912.A.1.2	Compare real number expressions.	Mathematics	912	Algebra	1.1, 1.9		1.1, 1.2
MA.912.A.1.3	Simplify real number expressions using the laws of exponents.	Mathematics	912	Algebra	10.3, 10.4		5.1, 5.2
MA.912.A.1.4	Perform operations on real numbers (including integer exponents, radicals, percents, scientific notation, absolute value, rational numbers, irrational numbers) using multi-step and real-world problems.	Mathematics	912	Algebra	1.1, 1.3, 1.7, 12.3, Ch. 1 Aps		1.1
MA.912.A.1.5	Use dimensional (unit) analysis to perform conversions between units of measure, including rates.	Mathematics	912	Algebra	1.9		
MA.912.A.1.6	Identify the real and imaginary parts of complex numbers and perform basic operations.	Mathematics	912	Algebra			5.5
MA.912.A.1.7	Represent complex numbers geometrically.	Mathematics	912	Algebra			5.5
MA.912.A.1.8	Use the zero product property of real numbers in a variety of contexts to identify solutions to	Mathematics	912	Algebra	11.2, 11.3, 11.4, 11.5		6.2, 6.3, 6.4

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Benchmark Number	Descriptor	Subject Area	Grade Level	Body Of Knowledge	Algebra 1	Geometry	Algebra 2
	equations.						
MA.912.A.2.1	Create a graph to represent a real-world situation.	Mathematics	912	Algebra	4.2, 4.3, 4.4, 4.5, 4.6		1.4, 1.5, 2.1, 4.4, 6.4, 8.1, 10.1
MA.912.A.2.2	Interpret a graph representing a real-world situation.	Mathematics	912	Algebra	4.2, 4.3, 4.4, 4.5, 4.6		1.4, 1.5, 2.1, 4.4, 6.4, 8.1, 10.1
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.	Mathematics	912	Algebra	5.1, 5.2		4.1, 4.2, 4.3, 4.4
MA.912.A.2.4	Determine the domain and range of a relation.	Mathematics	912	Algebra	5.1		4.1, 4.3
MA.912.A.2.5	Graph absolute value equations and inequalities in two variables.	Mathematics	912	Algebra	5.4		4.4, 4.5
MA.912.A.2.6	Identify and graph common functions (including but not limited to linear, rational, quadratic, cubic, radical, absolute value).	Mathematics	912	Algebra	4.2, 4.4, 5.4, 8.1, 11.1		1.5, 2.1, 2.3, 4.4, 4.5, 6.1, 8.1, 10.1
MA.912.A.2.7	Perform operations (addition, subtraction, division and multiplication) of functions algebraically, numerically, and graphically.	Mathematics	912	Algebra	5.2		4.2
MA.912.A.2.8	Determine the composition of	Mathematics	912	Algebra	5.2		4.2

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	functions.						
MA.912.A.2.9	Recognize, interpret, and graph functions defined piece-wise, with and without technology.	Mathematics	912	Algebra			4.4
MA.912.A.2.10	Describe and graph transformations of functions	Mathematics	912	Algebra	5.4		4.5
MA.912.A.2.11	Solve problems involving functions and their inverses.	Mathematics	912	Algebra			4.3
MA.912.A.2.12	Solve problems using direct, inverse, and joint variations.	Mathematics	912	Algebra	5.3		10.6
MA.912.A.2.13	Solve real-world problems involving relations and functions.	Mathematics	912	Algebra	5.1, 5.2, 5.3, 5.4, 5.5, 5.6, Ch. 5 Aps		4.1, 4.2, 4.3, 4.4, 4.5, Ch. 4 Aps
MA.912.A.3.1	Solve linear equations in one variable that include simplifying algebraic expressions.	Mathematics	912	Algebra	3.1, 3.2, 3.3, 3.4, 3.5		1.2
MA.912.A.3.2	Identify and apply the distributive, associative, and commutative properties of real numbers and the properties of equality.	Mathematics	912	Algebra	3.1, 3.2, 3.3		1.1, 1.2
MA.912.A.3.3	Solve literal equations for a specified variable.	Mathematics	912	Algebra	3.3, 3.4		
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.	Mathematics	912	Algebra	9.1, 9.2, 9.3, 9.4, 9.5		1.2, Ch. 1 Aps
MA.912.A.3.5	Symbolically represent and solve	Mathematics	912	Algebra	3.1, 3.2, 3.3,		1.2,

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	multi-step and real-world applications that involve linear equations and inequalities.				3.4, 3.5, Ch. 3 Aps, 9.1, 9.2, 9.3, 9.4, 9.5, Ch. 9 Aps		Ch. 1 Aps
MA.912.A.3.6	Solve and graph the solutions of absolute value equations and inequalities with one variable.	Mathematics	912	Algebra	1.3, 9.5		1.3
MA.912.A.3.7	Rewrite equations of a line into slope-intercept form and standard form.	Mathematics	912	Algebra	4.4, 4.5	7.4	1.4, 1.5
MA.912.A.3.8	Graph a line given any of the following information: a table of values, the x- and y-intercepts, two points, the slope and a point, the equation of the line in slope-intercept form, standard form, or point-slope form .	Mathematics	912	Algebra	4.2, 4.3, 4.4, 4.5	7.4	1.4, 1.5
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.	Mathematics	912	Algebra	4.2, 4.3, 4.4, 4.5	7.4	1.4, 1.5
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	Mathematics	912	Algebra	4.2, 4.3, 4.4, 4.5, 4.7	7.4	1.4, 1.5

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	perpendicular to a given line, through a given point on the new line.						
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.	Mathematics	912	Algebra	4.3, 4.5, 4.6		1.6
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.	Mathematics	912	Algebra	4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 9.6, 9.7	7.4	1.5
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.	Mathematics	912	Algebra	8.1		2.1
MA.912.A.3.14	Solve systems of linear equations and inequalities in two and three variables using graphical, substitution, and elimination methods.	Mathematics	912	Algebra	8.1, 8.2, 8.3, 8.4, 8.5		2.1, 2.2, 2.3, 2.4, 2.8, Ch. 2 Aps
MA.912.A.3.15	Solve real-world problems involving systems of linear equations and inequalities in two	Mathematics	912	Algebra	8.1, 8.2, 8.3, 8.4, 8.5, Ch. 8 Aps		2.1, 2.2, 2.3, 2.4, 2.8, Ch. 2 Aps

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	and three variables.						
MA.912.A.4.1	Simplify monomials and monomial expressions using the laws of integral exponents.	Mathematics	912	Algebra	10.3, 10.4		5.1
MA.912.A.4.2	Add, subtract, and multiply polynomials.	Mathematics	912	Algebra	10.1		9.1
MA.912.A.4.3	Factor polynomial expressions.	Mathematics	912	Algebra	10.7, 10.8		9.2
MA.912.A.4.4	Divide polynomials by monomials and polynomials with various techniques, including synthetic division.	Mathematics	912	Algebra			9.3, 9.4
MA.912.A.4.5	Graph polynomial functions with and without technology and describe end behavior.	Mathematics	912	Algebra			Ch. 9 Math Lab 2
MA.912.A.4.6	Use theorems of polynomial behavior (including but not limited to the Fundamental Theorem of Algebra, Remainder Theorem, the Rational Root Theorem, Descartes' Rule of Signs, and the Conjugate Root Theorem) to find the zeros of a polynomial function.	Mathematics	912	Algebra			9.4, 9.5
MA.912.A.4.7	Write a polynomial equation for a given set of real and/or complex roots.	Mathematics	912	Algebra			9.4
MA.912.A.4.8	Describe the relationships among the solutions of an equation, the	Mathematics	912	Algebra			6.3, 6.4, 6.6, 9.4

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	zeros of a function, the x-intercepts of a graph, and the factors of a polynomial expression, with and without technology.						
MA.912.A.4.9	Use graphing technology to find approximate solutions for polynomial equations.	Mathematics	912	Algebra			9.4
MA.912.A.4.10	Use polynomial equations to solve real-world problems.	Mathematics	912	Algebra			9.5
MA.912.A.4.11	Solve a polynomial inequality by examining the graph with and without the use of technology.	Mathematics	912	Algebra			not covered
MA.912.A.4.12	Apply the Binomial Theorem.	Mathematics	912	Algebra			11.5
MA.912.A.5.1	Simplify algebraic ratios.	Mathematics	912	Algebra	10.5		10.2, 10.3, 10.5
MA.912.A.5.2	Add, subtract, multiply, and divide rational expressions.	Mathematics	912	Algebra	10.5		10.2, 10.3
MA.912.A.5.3	Simplify complex fractions.	Mathematics	912	Algebra			10.5
MA.912.A.5.4	Solve algebraic proportions.	Mathematics	912	Algebra	3.2		10.4
MA.912.A.5.5	Solve rational equations.	Mathematics	912	Algebra			10.4
MA.912.A.5.6	Identify removable and non-removable discontinuities, and vertical, horizontal, and oblique asymptotes of a graph of a rational function, find the zeros, and graph the function.	Mathematics	912	Algebra			10.1
MA.912.A.5.7	Solve real-world problems	Mathematics	912	Algebra			10.4, 10.6,

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	involving rational equations (mixture, distance, work, interest, and ratio).						Ch. 10 Aps
MA.912.A.6.1	Simplify radical expressions	Mathematics	912	Algebra	12.3		5.2
MA.912.A.6.2	Add, subtract, multiply and divide radical expressions (square roots and higher).	Mathematics	912	Algebra	12.3		5.2
MA.912.A.6.3	Simplify expressions using properties of rational exponents.	Mathematics	912	Algebra	10.3, 10.4		5.3
MA.912.A.6.4	Convert between rational exponent and radical forms of expressions.	Mathematics	912	Algebra			5.3
MA.912.A.6.5	Solve equations that contain radical expressions.	Mathematics	912	Algebra	12.6		5.4
MA.912.A.7.1	Graph quadratic equations with and without graphing technology.	Mathematics	912	Algebra	11.1		6.1
MA.912.A.7.2	Solve quadratic equations over the real numbers by factoring, and by using the quadratic formula.	Mathematics	912	Algebra	11.6		6.2, 6.3, 6.4, 6.5, 6.6
MA.912.A.7.3	Solve quadratic equations over the real numbers by completing the square.	Mathematics	912	Algebra	11.4		6.3
MA.912.A.7.4	Use the discriminant to determine the nature of the roots of a quadratic equation.	Mathematics	912	Algebra	11.6		6.5
MA.912.A.7.5	Solve quadratic equations over the complex number system.	Mathematics	912	Algebra			6.5, 6.6
MA.912.A.7.6	Identify the axis of symmetry,	Mathematics	912	Algebra			7.3

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	vertex, domain, range and intercept(s) for a given parabola.						
MA.912.A.7.7	Solve non-linear systems of equations with and without using technology.	Mathematics	912	Algebra			7.7
MA.912.A.7.8	Use quadratic equations to solve real-world problems.	Mathematics	912	Algebra	11.1, 11.2, 11.3, 11.4, 11.5, 11.6, Ch. 11 Aps		6.1, 6.2, 6.3, 6.4, 6.5, 6.6, Ch. 6 Aps
MA.912.A.7.9	Solve optimization problems.	Mathematics	912	Algebra	Ch. 11 Aps		Ch. 6 Aps, 7.3
MA.912.A.7.10	Use graphing technology to find approximate solutions of quadratic equations.	Mathematics	912	Algebra	11.1		6.1, 7.3
MA.912.A.8.1	Define exponential and logarithmic functions and determine their relationship	Mathematics	912	Algebra			8.1, 8.2
MA.912.A.8.2	Define and use the properties of logarithms to simplify logarithmic expressions and to find their approximate values.	Mathematics	912	Algebra			8.2, 8.3, 8.4
MA.912.A.8.3	Graph exponential and logarithmic functions.	Mathematics	912	Algebra			8.1, 8.2
MA.912.A.8.4	Prove laws of logarithms.	Mathematics	912	Algebra			8.3
MA.912.A.8.5	Solve logarithmic and exponential equations.	Mathematics	912	Algebra			8.5
MA.912.A.8.6	Use the change of base formula.	Mathematics	912	Algebra			8.5

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MA.912.A.8.7	Solve applications of exponential growth and decay.	Mathematics	912	Algebra	5.6		8.1
MA.912.A.9.1	Write the equations of conic sections in standard form and general form, in order to identify the conic section and to find its geometric properties (foci, asymptotes, eccentricity, etc.).	Mathematics	912	Algebra			7.2, 7.3, 7.4, 7.5, 7.6
MA.912.A.9.2	Graph conic sections with and without using graphing technology.	Mathematics	912	Algebra			7.2, 7.3, 7.4, 7.5, 7.6
MA.912.A.9.3	Solve real-world problems involving conic sections	Mathematics	912	Algebra			7.2, 7.3, 7.4, 7.5, 7.6, Ch. 7 Aps
MA.912.A.10.1	Use a variety of problem-solving strategies, such as drawing a diagram, making a chart, guess-and-check, solving a simpler problem, writing an equation, working backwards, and create a table.	Mathematics	912	Algebra	Covered throughout Math Applications and Problem Solving features	Covered throughout Math Applications and Problem Solving features	Covered throughout Math Applications and Problem Solving features
MA.912.A.10.2	Decide whether a solution is reasonable in the context of the original situation.	Mathematics	912	Algebra	Covered throughout Math Applications and Problem Solving features	Covered throughout Math Applications and Problem Solving features	Covered throughout Math Applications and Problem Solving features

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MA.912.A.10.3	Decide whether a given statement is always, sometimes, or never true (statements involving linear or quadratic expressions, equations, or inequalities rational or radical expressions or logarithmic or exponential functions).	Mathematics	912	Algebra	Covered throughout Math Applications and Problem Solving features	Covered throughout Math Applications and Problem Solving features	Covered throughout Math Applications and Problem Solving features
MA.912.A.10.4	Use counterexamples to show that statements are false.	Mathematics	912	Algebra		2.1	
MA.912.G.1.1	Find the lengths and midpoints of line segments in two-dimensional coordinate systems.	Mathematics	912	Geometry		7.1	7.1
MA.912.G.1.2	Construct congruent segments and angles, angle bisectors, and parallel and perpendicular lines using a straight edge and compass or a drawing program, explaining and justifying the process used.	Mathematics	912	Geometry		1.6	
MA.912.G.1.3	Identify and use the relationships between special pairs of angles formed by parallel lines and transversals.	Mathematics	912	Geometry		3.2, 3.3	
MA.912.G.1.4	Use coordinate geometry to find slopes, parallel lines, perpendicular lines, and equations of lines.	Mathematics	912	Geometry		7.3, 7.4, 7.5	
MA.912.G.2.1	Identify and describe convex, concave, regular, and irregular	Mathematics	912	Geometry		5.1, 5.2	

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	polygons.						
MA.912.G.2.2	Determine the measures of interior and exterior angles of polygons, justifying the method used.	Mathematics	912	Geometry		5.2	
MA.912.G.2.3	Use properties of congruent and similar polygons to solve mathematical or real-world problems.	Mathematics	912	Geometry	12.1	4.1, 4.2, 4.3, 4.4, 4.5, Ch. 4 Aps, 6.2, 6.3, 6.4, 6.5, Ch. 6 Aps	
MA.912.G.2.4	Apply transformations (translations, reflections, rotations, dilations, and scale factors) to polygons. to determine congruence, similarity, and symmetry. Know that images formed by translations, reflections, and rotations are congruent to the original shape. Create and verify tessellations of the plane using polygons.	Mathematics	912	Geometry		11.1, 11.2, 11.3, 11.4, 11.5, Ch. 11 Aps	
MA.912.G.2.5	Explain the derivation and apply formulas for perimeter and area of polygons (triangles, quadrilaterals, pentagons, etc.).	Mathematics	912	Geometry	2.4	8.1, 8.2, 8.3, 8.4, Ch. 8 Aps	
MA.912.G.2.6	Use coordinate geometry to prove properties of congruent, regular and similar polygons, and to	Mathematics	912	Geometry		7.5	

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	perform transformations in the plane.						
MA.912.G.2.7	Determine how changes in dimensions affect the perimeter and area of common geometric figures.	Mathematics	912	Geometry		8.6	
MA.912.G.3.1	Describe, classify, and compare relationships among quadrilaterals including the square, rectangle, rhombus, parallelogram, trapezoid, and kite.	Mathematics	912	Geometry		5.3, 5.4, 5.5, 5.6	
MA.912.G.3.2	Compare and contrast special quadrilaterals on the basis of their properties.	Mathematics	912	Geometry		5.3, 5.4, 5.5, 5.6	
MA.912.G.3.3	Use coordinate geometry to prove properties of congruent, regular and similar quadrilaterals.	Mathematics	912	Geometry		7.5	
MA.912.G.3.4	Prove theorems involving quadrilaterals.	Mathematics	912	Geometry		5.3, 5.4, 5.5, 5.6	
MA.912.G.4.1	Classify, construct, and describe triangles that are right, acute, obtuse, scalene, isosceles, equilateral, and equiangular.	Mathematics	912	Geometry		3.4	
MA.912.G.4.2	Define, identify, and construct altitudes, medians, angle bisectors, perpendicular bisectors, orthocenter, centroid,	Mathematics	912	Geometry		4.5	

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	incenter, and circumcenter.						
MA.912.G.4.3	Construct triangles congruent to given triangles.	Mathematics	912	Geometry		4.1	
MA.912.G.4.4	Use properties of congruent and similar triangles to solve problems involving lengths and areas.	Mathematics	912	Geometry		4.1, 4.2, 4.3, 4.4, 4.5, 6.2, 6.3, 6.4, 6.5	
MA.912.G.4.5	Apply theorems involving segments divided proportionally.	Mathematics	912	Geometry		6.3, 6.5	
MA.912.G.4.6	Prove that triangles are congruent or similar and use the concept of corresponding parts of congruent triangles.	Mathematics	912	Geometry		4.1, 4.2, 4.3, 4.4, 6.2, 6.3	
MA.912.G.4.7	Apply the inequality theorems: triangle inequality, inequality in one triangle, and the Hinge Theorem.	Mathematics	912	Geometry		3.5, 3.6	
MA.912.G.4.8	Use coordinate geometry to prove properties of congruent, regular, and similar triangles.	Mathematics	912	Geometry		7.5	
MA.912.G.5.1	Prove and apply the Pythagorean Theorem and its converse.	Mathematics	912	Geometry	12.2	6.6	
MA.912.G.5.2	State and apply the relationships that exist when the altitude is drawn to the hypotenuse of a right triangle.	Mathematics	912	Geometry		6.5	
MA.912.G.5.3	Use special right triangles ( $30^\circ - 60^\circ - 90^\circ$ and $45^\circ - 45^\circ - 90^\circ$ ) to	Mathematics	912	Geometry	12.4	6.7	

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	solve problems.						
MA.912.G.5.4	Solve real-world problems involving right triangles.	Mathematics	912	Geometry	12.2, 12.4, 12.5	6.5, 6.6, 6.7, 6.8, 6.9, Ch. 6 Aps	12.1
MA.912.G.6.1	Determine the center of a given circle. Given three points not on a line, construct the circle that passes through them. Construct tangents to circles. Circumscribe and inscribe circles about and within triangles and regular polygons.	Mathematics	912	Geometry		9.1, 9.6	7.5
MA.912.G.6.2	Define and identify: circumference, radius, diameter, arc, arc length, chord, secant, tangent and concentric circles.	Mathematics	912	Geometry	2.5	9.1, 9.2, 9.3, 9.5	
MA.912.G.6.3	Prove theorems related to circles, including related angles, chords, tangents, and secants.	Mathematics	912	Geometry		9.2, 9.3, 9.4, 9.5	
MA.912.G.6.4	Determine and use measures of arcs and related angles (central, inscribed, and intersections of secants and tangents).	Mathematics	912	Geometry		9.2, 9.3, 9.4, 9.5	
MA.912.G.6.5	Solve real-world problems using measures of circumference, arc length, and areas of circles and sectors.	Mathematics	912	Geometry	2.5	Ch. 9 Aps	

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MA.912.G.6.6	Given the center and the radius, find the equation of a circle in the coordinate plane or given the equation of a circle in center-radius form, state the center and the radius of the circle.	Mathematics	912	Geometry		9.1	7.5
MA.912.G.6.7	Given the equation of a circle in center-radius form or given the center and the radius of a circle, sketch the graph of the circle.	Mathematics	912	Geometry		9.1	7.5
MA.912.G.7.1	Describe and make regular, non-regular, and oblique polyhedra and sketch the net for a given polyhedron and vice versa.	Mathematics	912	Geometry		10.3, 10.4, 10.5, 10.6	
MA.912.G.7.2	Describe the relationships between the faces, edges, and vertices of polyhedra.	Mathematics	912	Geometry		10.3, 10.4, 10.5, 10.6	
MA.912.G.7.3	Identify, sketch, find areas and/or perimeters of cross sections of solid objects.	Mathematics	912	Geometry		10.9	
MA.912.G.7.4	Identify chords, tangents, radii, and great circles of spheres	Mathematics	912	Geometry		10.7	
MA.912.G.7.5	Explain and use formulas for lateral area, surface area, and volume of solids.	Mathematics	912	Geometry	2.6	10.3, 10.4, 10.5, 10.6, 10.7	
MA.912.G.7.6	Identify and use properties of congruent and similar solids.	Mathematics	912	Geometry	12.1	10.8	

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<b>Benchmark Number</b>	<b>Descriptor</b>	<b>Subject Area</b>	<b>Grade Level</b>	<b>Body Of Knowledge</b>	<b>Algebra 1</b>	<b>Geometry</b>	<b>Algebra 2</b>
MA.912.G.7.7	Determine how changes in dimensions affect the surface area and volume of common geometric solids.	Mathematics	912	Geometry		10.8	
MA.912.G.8.1	Analyze the structure of Euclidean geometry as an axiomatic system. Distinguish between undefined terms, definitions, postulates and theorems.	Mathematics	912	Geometry		1.1, 2.1, 2.5, 2.6	
MA.912.G.8.2	Use a variety of problem-solving strategies, such as drawing a diagram, making a chart, guess-and-check, solving a simpler problem, writing an equation, and working backwards.	Mathematics	912	Geometry		Covered throughout Math Applications and Problem Solving features	
MA.912.G.8.3	Determine whether a solution is reasonable in the context of the original situation.	Mathematics	912	Geometry		Covered throughout Math Applications	
MA.912.G.8.4	Make conjectures with justifications about geometric ideas. Distinguish between information that supports a conjecture and the proof of a conjecture.	Mathematics	912	Geometry		2.1, 2.6, 2.7, 2.8	
MA.912.G.8.5	Write geometric proofs, including proofs by contradiction and proofs	Mathematics	912	Geometry		2.1, 2.2, 2.3, 2.4, 2.5, 2.6,	

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<b>Benchmark Number</b>	<b>Descriptor</b>	<b>Subject Area</b>	<b>Grade Level</b>	<b>Body Of Knowledge</b>	<b>Algebra 1</b>	<b>Geometry</b>	<b>Algebra 2</b>
	involving coordinate geometry. Use and compare a variety of ways to present deductive proofs, such as flow charts, paragraphs, two-column, and indirect proofs.					2.7, 2.8, Ch. 2 Aps	
MA.912.G.8.6	Perform basic constructions using straightedge and compass, and/or drawing programs describing and justifying the procedures used. Distinguish between sketching, constructing and drawing geometric figures.	Mathematics	912	Geometry		1.6	

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