

Objectives List: Geometry

Lesson 1		Lesson 8	
GE.1.a	Describe a point, line, ray, line segment, and plane	GE.8.a	Describe perimeter, quadrilateral, rectangle, parallelogram, rhombus, trapezoid, square,
GE.1.b	Identify points, lines, rays, segments, and planes	GE.8.b	and interior angle State the number of degrees in the interior
GE.1.c	Identify symbols associated with points, lines, rays, segments, and planes		angles of a triangle and a quadrilateral
GE.1.d	Define the terms equal, similar, congruent,	Lesson 9	
	collinear, endpoint, and geometry	GE.9.a	Define the terms area, height, and base
GE.1.e	Draw and label a line segment, ray, line, and plane	GE.9.b	Find the area of a rectangle, parallelogram, triangle, square, and trapezoid
Lesson 2		Lesson 10	
GE.2.a	Define the terms coplanar, plane geometry, and solid geometry	GE.10.a	Define the terms equilateral, equiangular, isosceles, and scalene
GE.2.b	Define a set, intersection, union, empty or null set, proper subset, improper subset, element,	GE.10.b	Define the terms obtuse, right, and acute as they relate to triangles
GE.2.c	complement, n(A), and universal set Identify the symbols for set, intersection, union, empty or null set, proper subset, improper subset, element, not an element,	GE.10.c	Explain why the sum of the lengths of the shorter two sides of a triangle must be greater than the length of the longest side of the triangle
	complement, n(A), and universal set	GE.10.d	Demonstrate the use of hash marks to show congruent line segments or congruent angles
Lesson 3	2.6	Lesson 11	
GE.3.a	Define angle, protractor, degree, and vertex	GE.11.a	Define the terms polygon, concave polygon,
GE.3.b	Measure given angles with a protractor		convex polygon, regular polygon, pentagon,
GE.3.c	Draw angles of a given measure		hexagon, octagon, decagon, dodecagon,
GE.3.d	Identify angles using Greek letters, 3-letter names, and 1-letter names	GE.11.b	interior angle, and exterior angle Calculate the sum of the measures of the
GE.3.e	Differentiate between ∠ and m∠	05.44	interior angles of a polygon
Lesson 4		GE.11.c	State the measure of one interior angle of a regular polygon
GE.4.a	Classify angles as acute, obtuse, straight, or reflex	GE.11.d	State that the sum of the measures of the exterior angles of a polygon is 360 degrees
GE.4.b	Identify and explain the meaning of the right angle indicator	Lesson 12	
	angle mulcator	GE.12.a	Define the terms circle, center, chord, radius,
Lesson 5 GE.5.a	Define the terms parallel, perpendicular, bisector, midpoint, and bisect	OL.12.d	diameter, tangent, secant, sector, arc, sphere, ellipse, central angle, minor arc, major arc, intercepted arc, and inscribed angle
GE.5.b	Identify the symbols for parallel and perpendicular	GE.12.b	State the relationship between the measures of a central and an inscribed angle in a circle
GE.5.c	Construct the perpendicular bisector of a line segment	Lesson 13	
GE.5.d	Construct the bisector of an angle	GE.13.a	State the formula for the area of a circle
	3 · · · · · · · · · · · · · · · · · · ·	GE.13.b	Find the area of a circle
Lesson 6		Lesson 14	
GE.6.a	Identify and write Greek letters alpha, beta, gamma, and delta	GE.14.a	Define the terms face, edge, and vertex as they relate to solid shapes
GE.6.b	Describe and identify adjacent angles, vertical angles, supplementary angles, and complementary angles	GE.14.b	Define the terms cube and cylinder
		GE.14.c	Find the volume of a rectangular solid
Lesson 7		GE.14.d	Find the volume of a cylinder
GE.7.a	Describe transversal, interior angles, exterior angles, corresponding angles, alternate angles, alternate exterior angles, and alternate interior angles		
GE.7.b	Identify congruent pairs of angles formed by a set of parallel lines and a transversal		
GE.7.c	Describe a postulate and converse		



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Lesson 15		Lesson 21	
GE.15.a	Define the terms altitude and slant height	GE.21.a	State the proportional relationships among the
GE.15.b	Define the terms pyramid, cone, triangular	02.2	three sides of a 30°-60°-90° triangle
	prism, and sphere	GE.21.b	Find the length of any side of a 30°-60°-90°
GE.15.c	Find the volume of a pyramid		triangle given any other side
GE.15.d	Find the volume of a cone	GE.21.c	Determine whether a triangle has angle measures of 30°-60°-90° based on the
GE.15.e	Find the volume of a triangular prism		side lengths
GE.15.f	Find the volume of a sphere		-
Lesson 16		Lesson 22	Chata the Decrease of Comments of A. D.
GE.16.a	Find the surface area of any rectangular solid	GE.22.a	State the Property of Symmetry: if A = B, then B = A
GE.16.b	Find the surface area of a pyramid	GE.22.b	State the Reflexive Property: A = A
GE.16.c	Find the surface area of a cylinder	GE.22.c	State the Transitive Property: if A = B and
			B = C, then A = C
Lesson 17 GE.17.a	Define the term radical	GE.22.d	Define the terms axiom, postulate,
GE.17.b	Perform addition and subtraction operations		and theorem
020	with terms containing radicals	Lesson 23	
GE.17.c	Perform multiplication and division operations with terms containing radicals	GE.23.a	Identify corresponding parts of a pair of congruent or similar triangles
GE.17.d	Simplify radical expressions by removing all square factors from under the radical sign	GE.23.b	Define the term remote interior angle
GE.17.e	Find decimal approximations of irrational roots	Lesson 24	
	using a calculator	GE.24.a	Prove a pair of triangles congruent using SSS
Lesson 18		GE.24.b	Prove a pair of triangles congruent using SAS
GE.18.a	Define the terms leg and hypotenuse in	Lesson 25	
	reference to a right triangle	GE.25.a	Prove a pair of triangles congruent using ASA
GE.18.b	State the Pythagorean theorem	GE.25.b	Prove a pair of triangles congruent using AAS
GE.18.c	Use the Pythagorean theorem to find the	GE.25.c	Describe CPCTRC
	missing side of a right triangle when two sides are given	GE.25.d	Identify corresponding parts of congruent triangles
GE.18.d	State the converse of the Pythagorean theorem	GE.25.e	State the amplified parallelogram theorem
GE.18.e	Determine if a triangle is right when given the	GE.25.f	Apply the amplified parallelogram theorem
	lengths of the three sides	Lesson 26	
Lesson 19		GE.26.a	Prove two right triangles congruent by HL
GE.19.a	Rationalize the denominator of a fraction (one-term denominator)	GE.26.b	Prove two right triangles congruent by HA
		GE.26.c	Prove two right triangles congruent by LA
		GE.26.d	Prove two right triangles congruent by LL
Lesson 20	6	Lesson 27	
GE.20.a	State the proportional relationship between one leg and the hypotenuse on a 45°-45°-90° triangle	GE.27.a	Define the term similar
		GE.27.b	Define the AA postulate
GE.20.b	State the proportional relationship between one leg of a 45°-45°-90° triangle and the	GE.27.c	Prove two triangles similar using the AA postulate
GE.20.c	other leg State the lengths of the remaining sides of a	GE.27.d	State the ratio of corresponding sides in pairs of similar polygons
	45°-45°-90° triangle when given the length of one side	GE.27.e	Find the lengths of missing sides in pairs of simliar polygons when the ratio of
GE.20.d	Determine whether a triangle has angle measures of 45°-45°-90° based on the side lengths		corresponding sides is known





Lesson 28	
GE.28.a	Translate a graph horizontally and/or vertically using integer movements
GE.28.b	Reflect a graph across the x- or y-axis
GE.28.c	Reflect a graph across horizontal and vertical lines that are not axes
GE.28.d	Rotate a graph about the origin
GE.28.e	Rotate a graph about a point other than the origin
GE.28.f	Dilate a graph about its center
GE.28.g	Combine two or more transformations of one graph
GE.28.h	Describe a transformation, given a before and an after graph
Lesson 29	
GE.29.a	Define the terms adjacent and opposite
GE.29.b	Define the trigonometric ratios sine, cosine, and tangent
GE.29.c	Give sine, cosine, and tangents of angles in triangles with given side lengths
Lesson 30	
GE.30.a	Define the trigonometric ratios secant, cosecant, and cotangent
GE.30.b	State the secant, cosecant, and tangent in
	triangles with given side lengths