Ideal % of Test	Ideal # of Items	Geometry State PASS/OAS
11%	6	Logical Reasoning (1.0)
		Standard 1: Logical Reasoning - The student will use deductive and inductive reasoning to solve problems.
	4	Inductive and Deductive Reasoning (1.1)
		Identify and use logical reasoning skills (inductive and deductive) to make and test
		conjectures, formulate counter examples, and follow logical arguments.
	2	Conditional Statements (1.2)
		State, use, and examine the validity of the converse, inverse, and contrapositive of "if-then" statements
36%	20	Properties of 2-Dimensional Figures (2.0)
		Standard 2: Properties of 2-Dimensional Figures - The student will use the
		properties and formulas of geometric figures to solve problems.
	4	Line and Angle Relationships (2.2)
		<b>a.</b> Use the angle relationships formed by parallel lines cut by a transversal to
		solve problems.
		<b>b.</b> Use the angle relationships formed by two lines cut by a transversal to
		determine if the two lines are parallel and verify, using algebraic and deductive
		proofs.
		<b>c.</b> Use relationships between pairs of angles (for example, adjacent,
	1	Complementary, vertical) to solve problems.
	4	Polygons and Other Flane Figures (2.5)
		regular pentagonal hexagonal n-gonal)
		<b>b</b> . Apply the interior and exterior angle sum of convex polygons to solve
		problems, and verify using algebraic and deductive proofs.
		<b>c.</b> Develop and apply the properties of quadrilaterals to solve problems (for
		example, rectangles, parallelograms, rhombi, trapezoids, kites).
		<b>d.</b> Use properties of 2-dimensional figures and side length, perimeter or
		circumference, and area to determine unknown values and correctly identify the
		appropriate unit of measure of each.
	4	Similarity (2.4)
		a. Determine and verify the relationships of similarity of triangles, using
		algebraic and deductive proofs.
		<b>b.</b> Use ratios of similar 2-dimensional figures to determine unknown values, such
		as angles, side lengths, perimeter or circumference, and area.
	4	Congruence (2.5)
		<b>a.</b> Determine and verify the relationships of congruency of triangles, using
		algebraic and deductive proofs. <b>b</b> Use the relationships of congruency of 2 dimensional figures to determine
		unknown values such as angles side lengths perimeter or circumference and
		area
	4	Circles (2.6)
	-	<b>a.</b> Find angle measures and arc measures related to circles.
		<b>b.</b> Find angle measures and segment lengths using the relationships among radii.
		chords, secants, and tangents of a circle.
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Ideal % of Test	Ideal # of Items	Geometry State PASS/OAS
22%	12	Triangles and Trigonometric Ratio (3.0)
		Standard 3: The student will use the properties of right triangles and
		trigonometric ratios to solve problems.
	4	Pythagorean Theorem (3.1)
		Use the Pythagorean Theorem and its converse to find missing side lengths and to
		determine acute, right, and obtuse triangles, and verify using algebraic and deductive
		proofs.
	4	<b>Right Triangle Relationships (3.2)</b>
		Apply the 45-45-90 and 30-60-90 right triangle relationships to solve problems, and varify using algebraic and deductive proofs
	1	Trigonometric Functions (3.3)
	-	Express the trigonometric functions as ratios and use sine cosine and tangent ratios
		to solve real-world problems.
18%	10	Properties of 3-Dimensional Figures (4.0)
		Standard 4: The student will use the properties and formulas of geometric
		figures to solve problems.
	6	Polyhedra and Other Solids (4.1)
		<b>a.</b> Identify, describe, and analyze polyhedra (for example, regular, decahedral).
		<b>b.</b> Use properties of 3-dimensional figures; side lengths, perimeter or
		circumference, and area of a face; and volume, lateral area, and surface area to
		determine unknown values and correctly identify the appropriate unit of measure
		of each.
	2	Similarity (4.2)
		Use ratios of similar 3-dimensional figures to determine unknown values, such as
	2	angles, side lengths, perimeter or circumference of a face, area of a face, and volume.
	4	Create a model of a 2 dimensional figure from a 2 dimensional drawing and make a
		2 dimensional representation of a 3 dimensional object (for example, nets
		bluenrints perspective drawings)
13%	7	Coordinate Geometry (5.0)
10 / 0		Standard 5: Coordinate Geometry - The student will solve problems with
		geometric figures in the coordinate plane.
	4	Properties of Points, Segments, and Lines (5.1)
		Find the distance between two points; the midpoint of a segment; and calculate the
		slopes of parallel, perpendicular, horizontal, and vertical lines.
	3	Properties of Figures (5.2)
		<b>a.</b> Given a set of points determine the type of figure formed based on its
		properties.
		<b>b.</b> Use transformations (reflection, rotation, translation) on geometric figures to
		solve problems within coordinate geometry.
100%	55	Total Test