



Performing Math

open-middle performance tasks

Geometry Tasks		
Focus TEKS	Performance Task Name	Additional TEKS
Cluster G.2: Coordinate and Transformational Geometry		
G.2A	One-Dimensional Coordinates: Souvenir Hunt	
G.2A	Two-Dimensional Coordinates: Power Line	G.2B
G.2B	Congruent Segments: Four Triangles	G.6B, G.6C
G.2B	Parallel and Perpendicular Lines: Landscaping Design	G.2C
G.2C	Parallel and Perpendicular Lines: Four Towns	A.2E, A.2F
Cluster G.3: Coordinate and Transformational Geometry		
G.3A	Congruence Transformations: Name That Transformation!	G.3C
G.3A	Dilations: Asteroids	
G.3B	Rotations: Three Figures	G.3A
G.3B	Dilations: Storm Warning	G.3A
G.3C	Sequences of Transformations: Grocery Store Logo	G.3B
G.3D	Symmetry: Sets of Figures	G.3B
Cluster G.4: Logical Argument and Constructions		
G.4A	Geometric Terms: The Match Game	G.5A
G.4B	Converse, Inverse, and Contrapositive: Truth Smackdown	G.5A
G.4C	Counterexamples: It's a Sign	G.5A
G.4D	Spherical Geometry: Parallel Universes and Bermuda Triangles	G.5A
Cluster G.5: Logical Argument and Constructions		
G.5A	Investigating Patterns with Parallel Lines: Railyard	G.6A
G.5A	Investigating Patterns with Triangles: Perpendicular Bisectors	G.5B
G.5A	Investigating Patterns with Quadrilaterals: Perpendicular Diagonals	G.5B
G.5A	Investigating Patterns with Circles: Inscribed Angles	G.12A
G.5B	Constructing Altitudes: Location, Location, Location!	G.5C
G.5B	Copying a Figure: Quilt Pattern	G.5C
G.5C	Conjectures about Quadrilaterals: Stained Glass Trapezoids	G.4C
G.5C	Conjectures about Triangles: Prairie Dog Valley Electric	G.2B
G.5D	Triangle Inequality Theorem: Landscaping Timbers	6.8A
Cluster G.6: Proof and Congruence		
G.6A	Intersecting Lines: Proving Complementary Angles	G.5A
G.6A	Perpendicular Bisectors: Nearest Cell Tower	G.2B
G.6B	Congruent Triangles: Lakeside Lights	G.2B
G.6B	Right Triangle Congruence: Museum Triangles	G.5A
G.6C	Corresponding Parts of Congruent Triangles: The Quad	G.5A
G.6D	Triangle Segments: Midsegments and Medians	G.10B
G.6D	Triangle Angles: Centennial Park	G.6A
G.6D	Pythagorean Theorem: Garfield's Proof	G.6C
G.6E	Rhombus Proof: Stained Glass Window	G.9B
G.6E	Properties of Parallelograms: The Chevron	G.6A



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Cluster G.7: Similarity, Proof, and Trigonometry		
G.7A	Dilations and Similar Figures: Similar Triangles	G.3A
G.7B	Angle-Angle Similarity: Meteor Crater	G.5A
G.7B	Similar Triangles: Surveying the Trees	G.5A
Cluster G.8: Similarity, Proof, and Trigonometry		
G.8A	Triangle Proportionality Theorem: A-Frame Area	G.7B, G.11B
G.8B	Altitudes of Right Triangles: Jones Park	G.6B, G.7B
G.8B	Geometric Mean: Area of a Rhombus	G.5A, G.11B
Cluster G.9: Similarity, Proof, and Trigonometry		
G.9A	Trigonometric Ratios: New York Neighbors	
G.9A	Trigonometric Ratios: Stable Angle	G.6D
G.9B	Special Right Triangles: Bear Paw Quilt	G.11B
G.9B	Pythagorean Triples: Bushville Bridges	G.6D
Cluster G.10: Two-dimensional and Three-dimensional Figures		
G.10A	Cross Sections: Verdict, Please	G.4C
G.10A	Rotations of 2-Dimensional Shapes: Native American Pottery	
G.10B	Perimeter and Area: Community Garden	G.11B
G.10B	Surface Area and Volume: Brazosville Water Tanks	G.11C, G.11D
Cluster G.11: Two-dimensional and Three-dimensional Figures		
G.11A	Regular Polygons: Hexagon Daisies	G.10B
G.11B	Triangles and Quadrilaterals: Don't Blow a Gasket!	G.9B
G.11B	Quadrilaterals and Sectors: Cotton Farming	G.12C
G.11B	Regular Polygons and Sectors: Penchant for Pendants	G.11A, G.12C
G.11C	Surface Area of Prisms and Pyramids: Skyscrapers	G.9B
G.11C	Surface Area of Cylinders, Cones, and Spheres: Chocolate Candies	G.12A
G.11C	Surface Area of Composite Figures: Painting the Shed	G.11B
G.11D	Volume of Prisms and Pyramids: Candle Factory	G.11A
G.11D	Volume: Water Tower	
Cluster G.12: Circles		
G.12A	Angles and Arcs: Graphic T-Shirts	G.5A
G.12A	Secants: Two Circles	G.5A
G.12A	Tangents and Angles: Name that Quadrilateral	G.5A
G.12B	Arc Length: Embroidery Design	
G.12C	Area of Sectors of Circles: On the Radio	G.11B
G.12D	Radians: Merry-Go-Round Disagreement	G.12B
G.12E	Equations of Circles: Cellular Towers	A.3F, A.5C
Cluster G.13: Probability		
G.13A	Permutations and Combinations: Marching Band Squads	7.6D
G.13B	Geometric Probability: Table Top Probability	G.11B



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Focus TEKS	Performance Task Name	Additional TEKS
G.13C	Compound Probability: Fruit Basket Turnover	7.6D, 7.6I
G.13D	Conditional Probability: Late for Work Again!	7.6C, 7.6E, 7.6I
G.13E	Independence: Root for the Home Team	G.13C, 7.6D