

**Table 3.7:
Analysis Tool for Grade 8—Geometry (8.G) Domain**

Content Standard Clusters	Which Standards in the Cluster Are Familiar?	What’s New or Challenging in These Standards?	Which Standards in the Cluster Need Unpacking or Emphasizing?	How Is This Cluster Connected to the Other 6–8 Domains and Mathematical Practices?
Critical area: Analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean theorem				
Understand congruence and similarity using physical models, transparencies, or geometry software.				
Understand and apply the Pythagorean theorem.				
Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.				