

NAME _____

Module 10 Coordinate Geometry and Spatial Visualization
Lesson 4 Three-Dimensional Shapes

Set 1

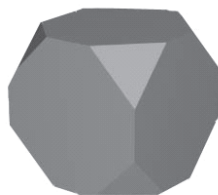
1

Euler's Theorem, ($F + V = E + 2$), states that for any polyhedron, the number of faces F plus the number of vertices V equals the number of edges E plus two. Verify that the formula is valid for each Platonic solid.



2

A polyhedron has 14 faces: six octagons and eight triangles. How many vertices does it have?



Set 2

1

Compare prisms and cylinders. How are they alike? How are they different?

2

Compare cones and pyramids. How are they alike? How are they different?

Additional Work Area