

NAME _____

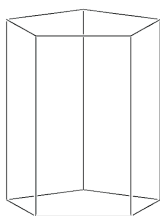
Module 10 Coordinate Geometry and Spatial Visualization
Lesson 4 Three-Dimensional Shapes

Guided Practice

10.4

Set 1

- 1 How many faces, edges, and vertices does the solid have?



7 faces
15 edges
10 vertices

- 2 Name the solid from problem one. Give all names that apply. Explain how you determined the names.

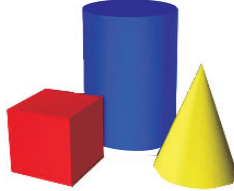
All of its faces are polygons, so it is a polyhedron. It has two parallel bases that appear to be congruent, so it appears to be a prism. The bases are pentagons, so it is a pentagonal prism.

- 3 Describe the faces of a pyramid. When are all the faces triangles?

The lateral faces of a pyramid are always triangles. They meet at a common vertex. The base can be any polygon. All faces are triangles when the base is a triangle. In that case, the pyramid is a triangular pyramid.

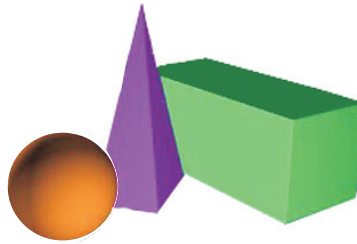
Set 2

1 Classify each solid. Give all names that apply.



- Polyhedron, hexahedron (appears to be a cube)
- Cylinder
- Cone

2 Classify each solid. Give all names that apply.



- Sphere
- Polyhedron, rectangular pyramid (appears to be a square pyramid)
- Polyhedron, rectangular prism

3 Sketch a cylinder.

