

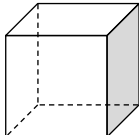
SECTOPM **10B** **Ready to Go On? Skills Intervention**
10-7 Three-Dimensional Figures

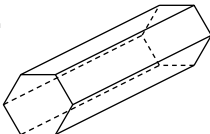
A **polyhedron** is a three-dimensional object, or solid figure, with flat surfaces, called **faces**, that are polygons. When two faces of a solid figure share a side, they form an **edge**. On a solid figure, a point at which three or more edges meet is a **vertex**.

Vocabulary	
polyhedron	
face	
edge	
vertex	
prism	
base	
cylinder	
cube	

Identifying Faces, Edges, and Vertices

Identify the number of faces, edges, and vertices on each three-dimensional figure.

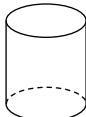
A.  How many faces are there? _____
 How many edges are there? _____
 How many vertices are there? _____

B.  How many faces are there? _____
 How many edges are there? _____
 How many vertices are there? _____

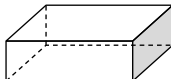
A **prism** is a polyhedron with two congruent, parallel **bases**, and other faces that are all parallelograms. A **cylinder** also has two congruent, parallel bases, but the bases of a cylinder are circular.

Naming Three-Dimensional Figures

Tell whether each figure is a polyhedron and name each solid.

A.  Are all the faces flat? _____
 Is the figure a polyhedron? _____
 Describe the bases. _____

 The figure is a _____.

B.  Are all the faces flat polygons? _____
 Is the figure a polyhedron? _____
 Is the solid a prism? Explain. _____

 What shape are the bases? _____
 The figure is a _____.