

 **POWER BASICS**  **PLUS**

# Geometry

Workbook

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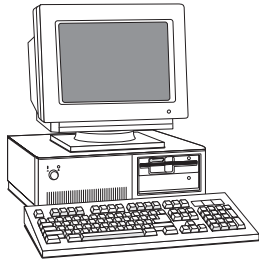
## UNIT 1 • ACTIVITY 1

### Dimensions

A dimension is a measure of length, width, or height. Plane figures, such as rectangles and squares, have width and length. They are two-dimensional. Objects, such as your classroom, a car, or a table, have length, width, and height. They are three-dimensional.

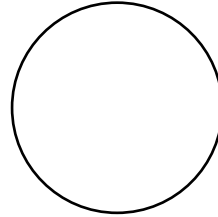
Look at each picture below. Decide if the object that is pictured has two dimensions or three dimensions. Write *two-dimensional* or *three-dimensional* on the line below each picture.

1.



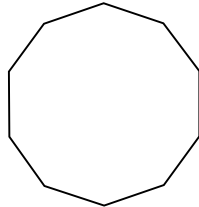
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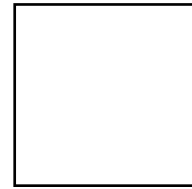
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3.



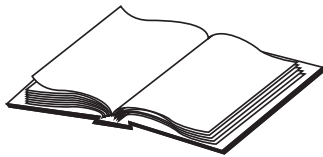
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4.



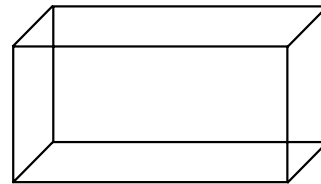
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5.



\_\_\_\_\_

6.



\_\_\_\_\_

List three other things that are three-dimensional. Then list three other things that are two-dimensional.

7.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





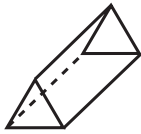
## UNIT 3 • ACTIVITY 56

### Space Figures

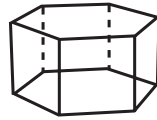
A space figure is a figure with three dimensions: length, width, and height. Space figures are also called solid figures and three-dimensional figures. A polyhedron (plural *polyhedra*) is a space figure that is made up of polygons. You have learned about the polyhedron that is made up of rectangles. This figure is called a rectangular prism. Polyhedra are named for the shape of their bases. There are many space figures. Look at the chart below.

#### Prisms

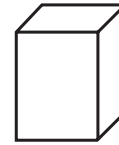
A **prism** is a polyhedron that has two congruent and parallel bases and rectangular faces.



Triangular Prism



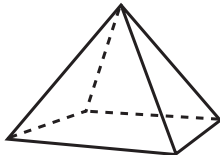
Hexagonal Prism



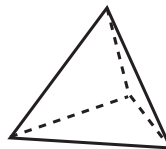
Rectangular Prism

#### Pyramids

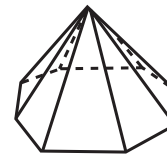
A **pyramid** is a polyhedron that has a base that is a polygon and other faces that are triangles that share a common vertex.



Rectangular Pyramid



Triangular Pyramid

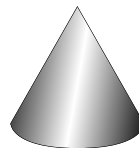


Octagonal Pyramid

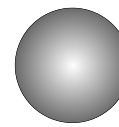
Other space figures are **not polyhedra** because they have curved sides.



Cylinder



Cone



Sphere

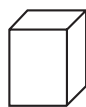
Write the name of each figure on the line.

1.



\_\_\_\_\_

2.



\_\_\_\_\_

3.



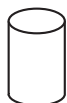
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4.



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5.



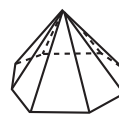
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6.



\_\_\_\_\_

7.



\_\_\_\_\_

8.



\_\_\_\_\_