



Geometry

Workbook

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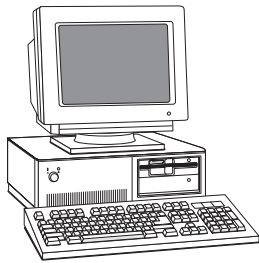
UNIT 1 • ACTIVITY 1

Dimensions

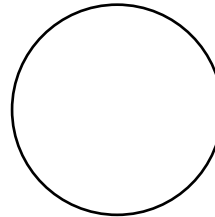
A dimension is a measure of length, width, or height. Plane figures, such as rectangles and squares, have width and length. They are two-dimensional. Objects, such as your classroom, a car, or a table, have length, width, and height. They are three-dimensional.

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.

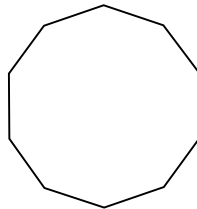
1.



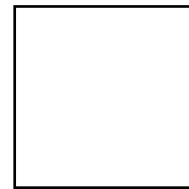
2.



3.



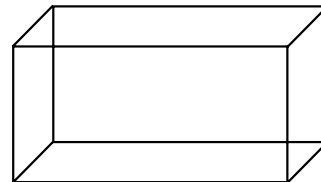
4.



5.



6.



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

7.





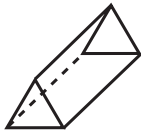
UNIT 3 • ACTIVITY 56

Space Figures

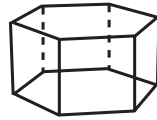
A space figure is a figure with three dimensions: length, width, and height. Space figures are also called solid figures and three-dimensional figures. A polyhedron (plural *polyhedra*) is a space figure that is made up of polygons. You have learned about the polyhedron that is made up of rectangles. 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

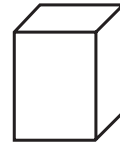
A **prism** is a polyhedron that has two congruent and parallel bases and rectangular faces.



Triangular Prism



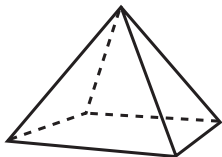
Hexagonal Prism



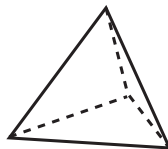
Rectangular Prism

Pyramids

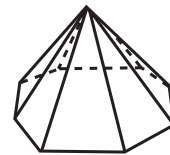
A **pyramid** is a polyhedron that has a base that is a polygon and other faces that are triangles that share a common vertex.



Rectangular Pyramid



Triangular Pyramid



Octagonal Pyramid

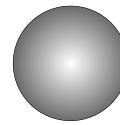
Other space figures are **not polyhedra** because they have curved sides.



Cylinder



Cone



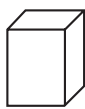
Sphere

Write the name of each figure on the line.

1.



2.



3.



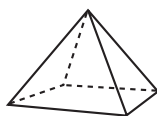
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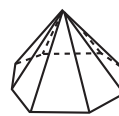
5.



6.



7.



8.

