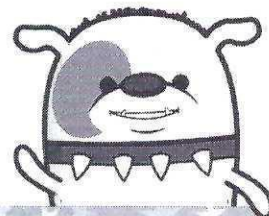


Understand Three-Dimensional Shapes



Explore It

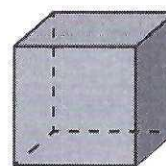
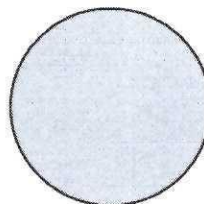
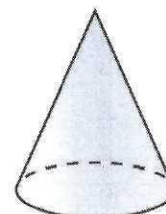
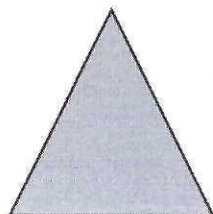
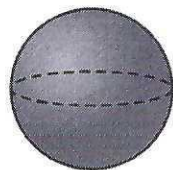
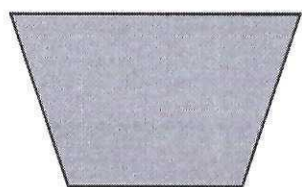
Draw a three-dimensional object.



Understand Three-Dimensional Shapes

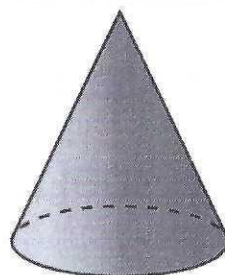
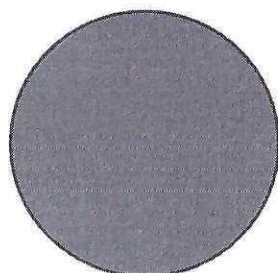
Try It

Circle all of the three-dimensional shapes.



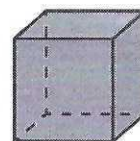
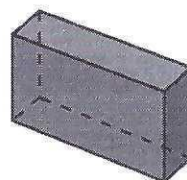
Understand Three-Dimensional Shapes

How are flat shapes and solid shapes alike?



Think

You can match the flat shapes to the similar solid shapes.



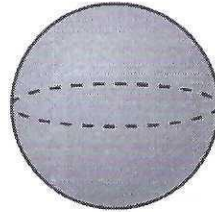
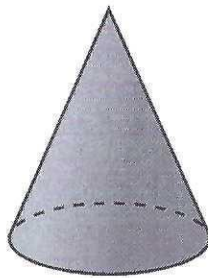
Talk About It

Are the solid objects on this page really three-dimensional?

Understand Three-Dimensional Shapes



Circle the statement that is true about all three solids.



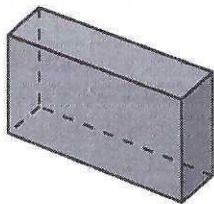
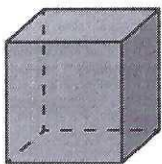
1 flat face

1 curved surface

Which statement is true about both solids?

Circle your answer.

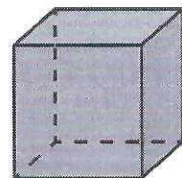
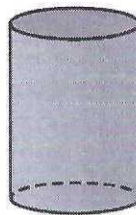
1



6 faces

4 vertices

2



at least 2 faces

exactly 5 faces

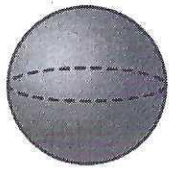


Talk About It

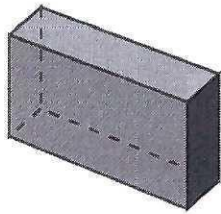
What is similar about a cone and a cylinder?

Understand Three-Dimensional Shapes

- 3 Analyze** Which three-dimensional shape has **1** vertex and **1** curved surface?
- _____



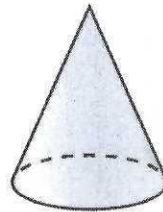
sphere



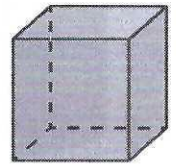
rectangular prism



cylinder



cone



cube

- 4 Create** Pick a shape. Write clues. Can your partner guess your shape?

My secret shape has

_____ vertices _____ surfaces _____ edges

My secret shape is a _____.

- 5 Identify**

My partner's shape has:

_____ vertices _____ surfaces _____ edges

My partner's shape is a _____.

Understand Three-Dimensional Shapes

6 Think about the parts of solid shapes.

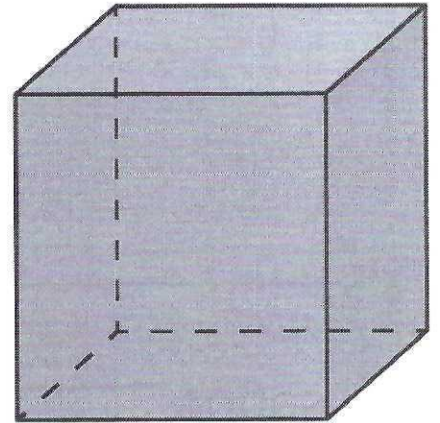
A: Name the shape. Fill in the blanks.

This shape is a _____.

It has _____ faces.

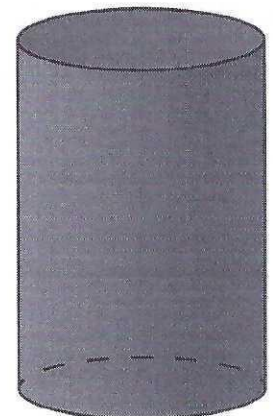
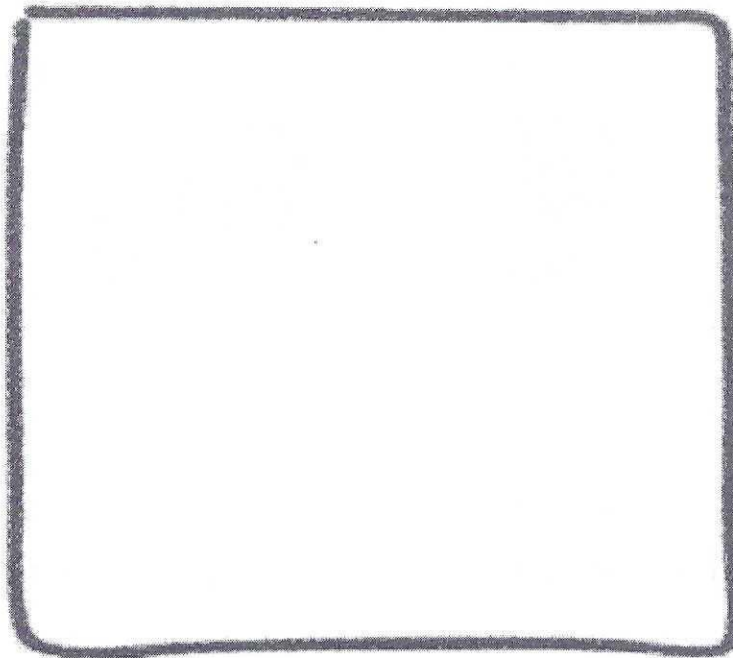
It has _____ edges.

It has _____ vertices.



B: Name the shape. Which two-dimensional shape makes up the faces of this solid shape? Draw it.

This shape is a _____.



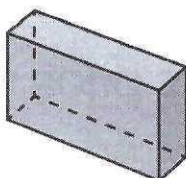
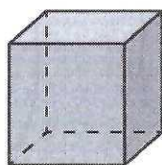
Name _____

Look at the Example. Then solve.**Example** What flat shape is a face of a cone?

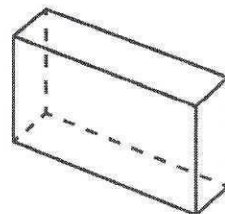
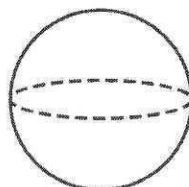
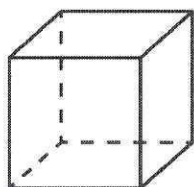
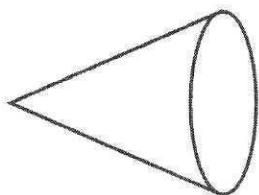
cone

circle

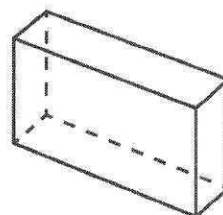
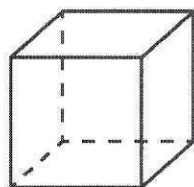
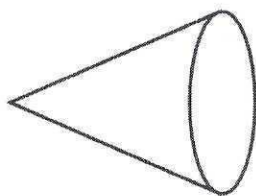
- 1** Draw a line to match each solid shape to a similar flat shape.



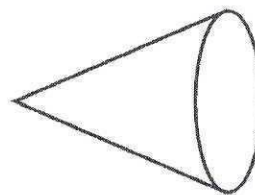
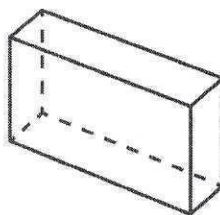
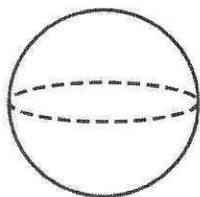
- 2 Color the solid shapes that have a more than one flat face.



-
- 3 Color the solid shapes that have a circular face.



-
- 4 Color the solid shapes that have curved surfaces.



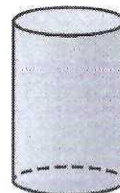
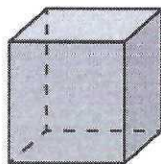
Name _____

Look at the Example. Then solve.**Example**

Circle the statement that is true about both solid shapes.

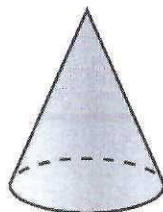
exactly 6 faces

at least 2 flat faces

**1** Circle the statement that is true about both solids.

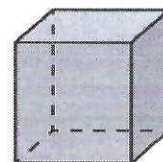
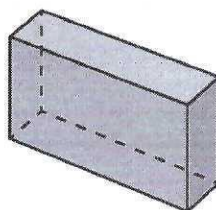
1 curved surface

2 flat faces

**2** Circle the statement that is true about both solids.

6 edges

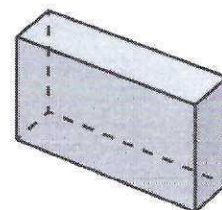
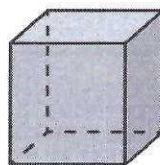
8 vertices



3 Circle the statement that is true about both solids.

exactly 5 faces

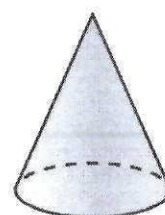
more than 4 edges



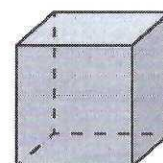
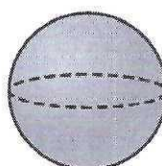
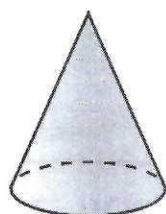
4 Circle the statement that is true about both solids.

1 curved surface

1 flat face



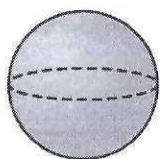
5 Circle the shapes that have at least one flat face.



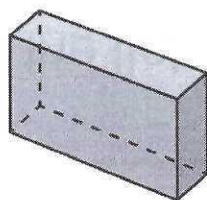
Name _____

Look at the Example. Then solve.**Example**

Which solid shape has 1 curved surface and 2 faces that are circles? cylinder



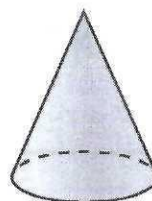
sphere



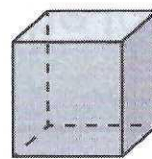
rectangular prism



cylinder



cone



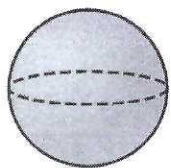
cube

1 Identify Which solid shape has exactly 1 flat surface?

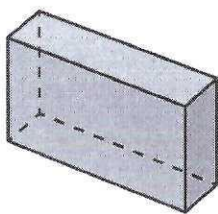
2 Analyze Which solid shape has no flat surfaces?

3 Identify Which solid shape has exactly 1 vertex?





sphere



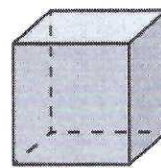
rectangular prism



cylinder



cone



cube

- 4 Classify** Which two solid shapes have the same number of edges and the same number of vertices?
-

- 5 Analyze** Describe a cube.

_____ flat surfaces

_____ edges

_____ vertices

- 6 Create** Draw the flat shapes that make up the faces of this solid shape.

