Build New Solids

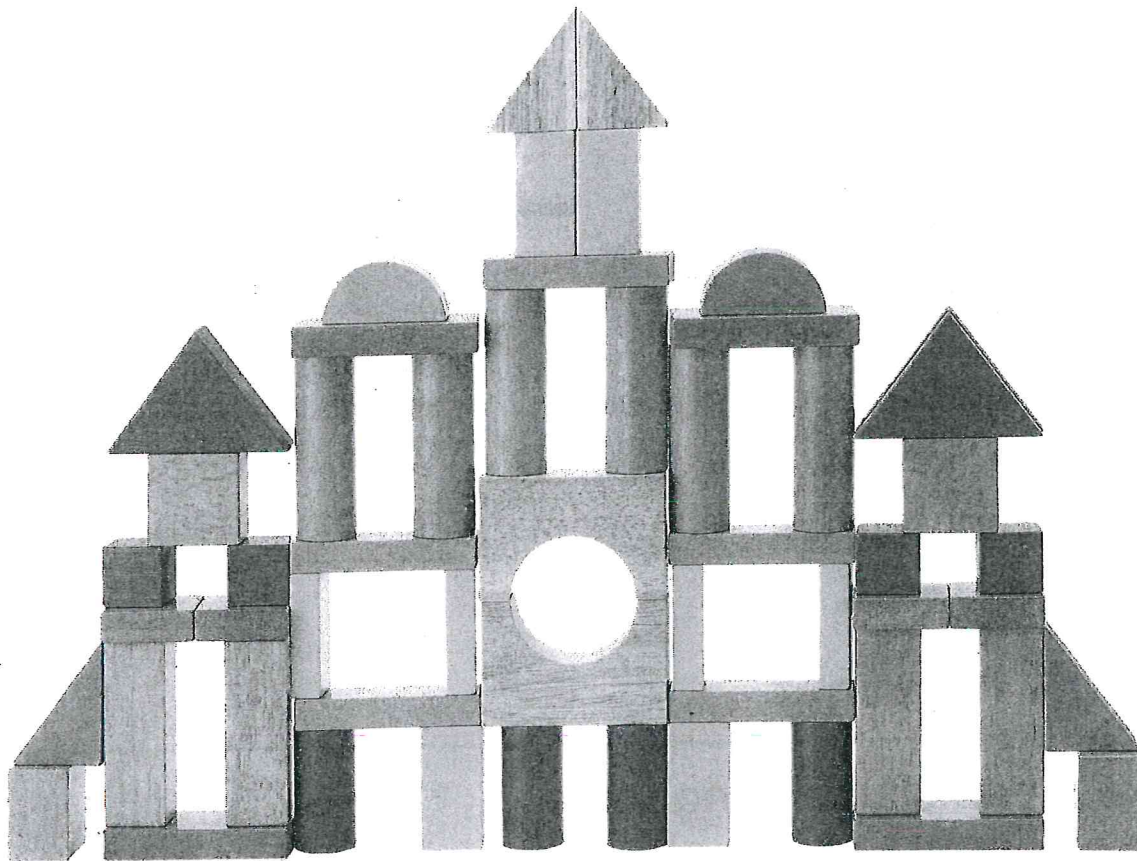## Be Curious
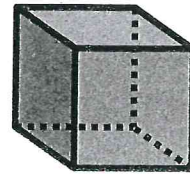
What do you notice?
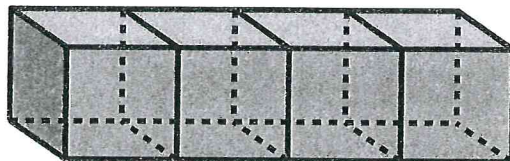### What do you wonder?

Math is... **Mindset**

What are some ways to build a positive relationship with classmates?
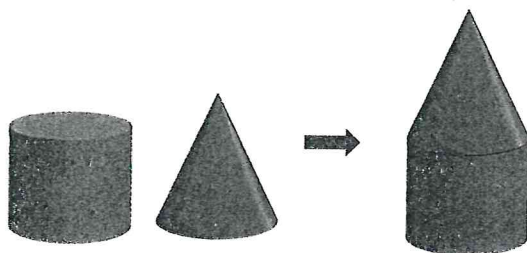
Learn

How can you use 3-dimensional shapes to make other 3-dimensional shapes?

You can combine cubes to make a rectangular prism.

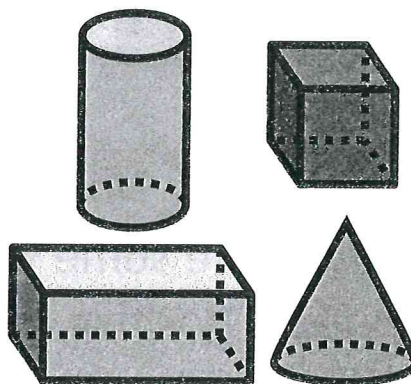You can make objects with 3-dimensional shapes.

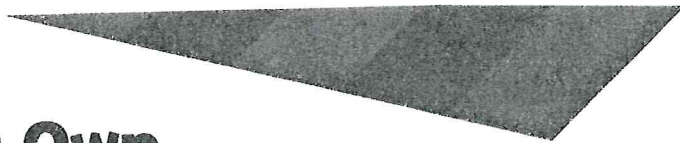You can combine 3-dimensional shapes to make new 3-dimensional shapes.

Math is... Thinking
What other new shapes can you make?

Work Together

Make a new shape using some of these shapes. How can you use the parts of your shape to make a different shape?
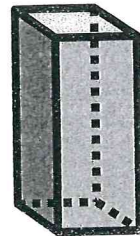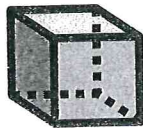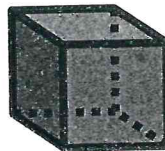
Draw or describe your two shapes.

On My Own

Name _____
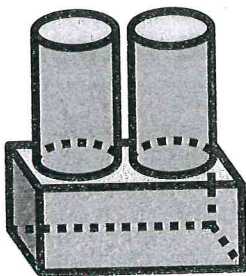
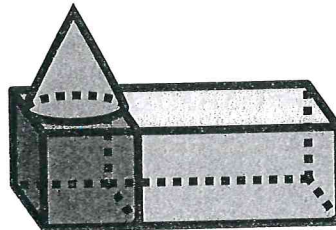## Circle the shapes that make up the object.

1.

2.

Use the parts of the object to make a new object. Draw or describe your object.
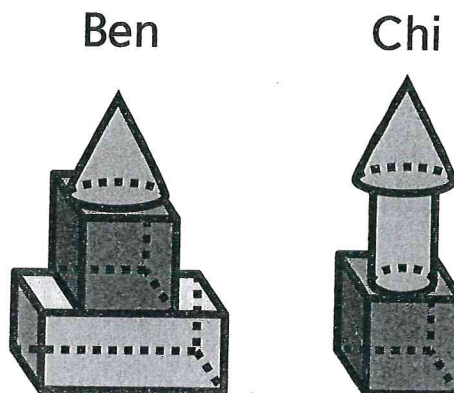
3.

4.

5. **Error Analysis** Chi wants to make a new object using Ben's shapes. Does Chi's object use the same shapes as Ben's? Explain.

Ben   Chi

6. **Extend Your Thinking** Brett has 3 cubes. He says there is only one way to make a new shape with them. Do you agree? Explain.

Reflect

How is making new 3-dimensional shapes like making new 2-dimensional shapes?

| Math is... Mindset |
| How did you build a positive relationship with classmates today? |

Performance Task

Name _____

Shapes

Nora makes shapes from pattern blocks and solids.

Part A

First, she gathers the blocks shown.
Write the name of the shape under each block.

▢   △   ⬡

_____   _____   _____

Part B

What is the total number of sides and the total
number of vertices for the blocks Nora gathers?

_____ sides

_____ vertices

Part C

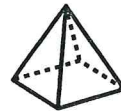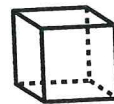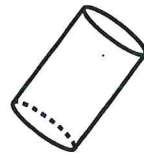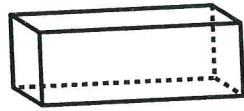Look at the shape. Can Nora make this shape with her
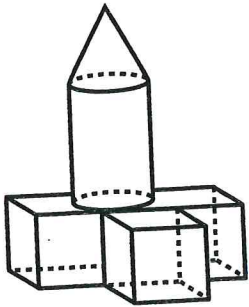blocks? Explain.

Part D

What is another shape Nora can make with her blocks? Draw the shape.

Part E

Nora builds a castle using some solids she has. Which solid does she use to make the castle? Choose all the correct answers.

Part F

Look at the two solids Nora uses to make the bottom of her castle. How many faces, edges, and vertices does each of those solids have?
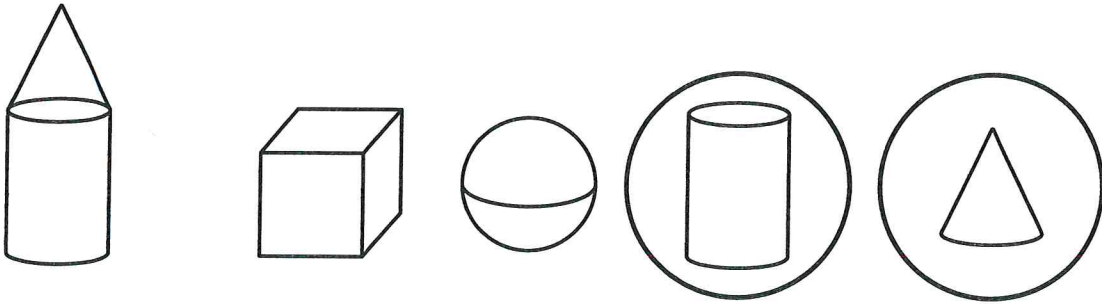
_____ faces

_____ edges

_____ vertices

Lesson 6-6

Additional Practice
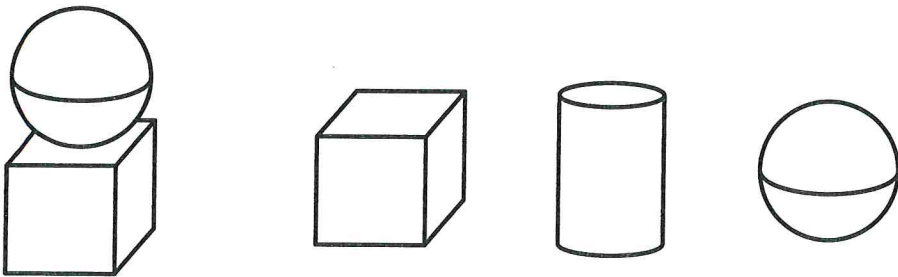
Name _____

Review

You can put 3-dimensional shapes together to make new shapes.

Circle the 3-dimensional shapes used to make the larger shape.
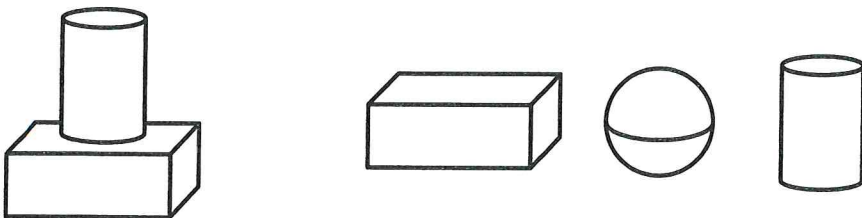

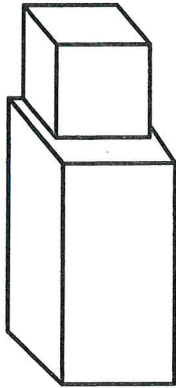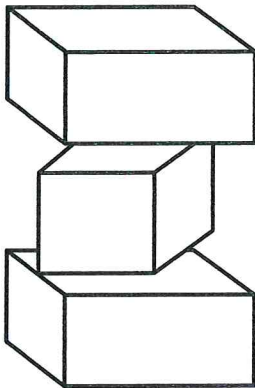**Circle the shapes that make the larger shape.**

1.

2.

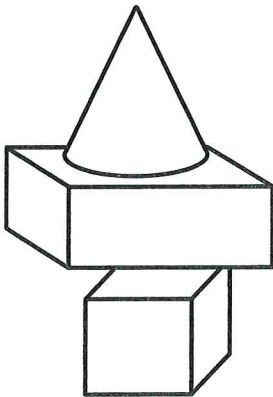# Use the parts of the shape to make a new shape. Draw or describe the new shape.

3.

4.

5. Isa wants to make a new shape using the shapes shown. What shape could Isa make?
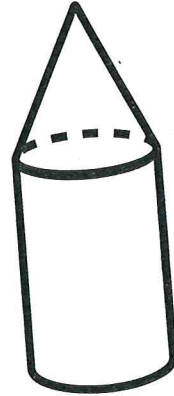
Math @ Home Activity

While riding in the car or out on a walk, have your child identify the individual 3-dimensional shapes he or she sees in buildings, statues, and other objects that are composite figures.
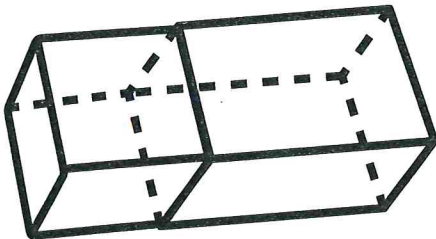
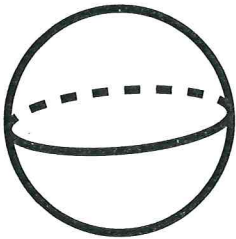Lesson 6-6

Exit Ticket
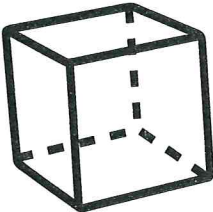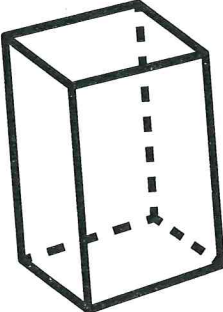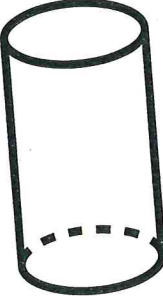
Name _____

1. Which shapes make up this shape?
   Choose all the correct answers.

   A. cube   **B.** rectangular prism

   C. cylinder   **D.** cone

2. Which shapes make up this shape?
   Choose all the correct answers.

   A.   B.   C.   D.

Reflect On Your Learning

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?!!