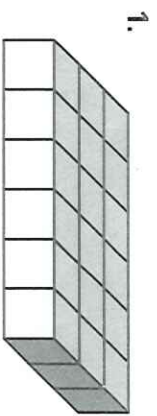


Unit Cubes and Solid Figures

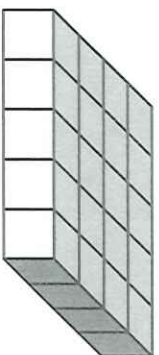


**COMMON CORE STANDARD—5.MD.C.3a**  
 Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.

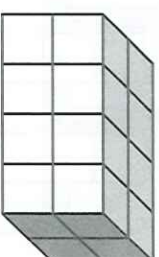
Count the number of cubes used to build each solid figure.



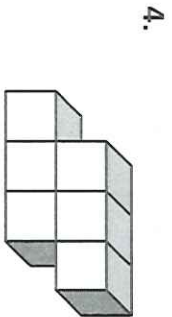
18 unit cubes



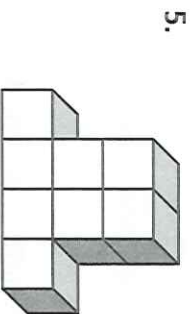
\_\_\_\_\_ unit cubes



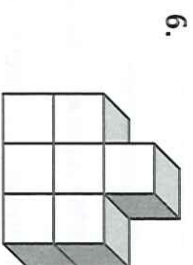
\_\_\_\_\_ unit cubes



\_\_\_\_\_ unit cubes

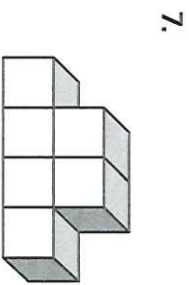


\_\_\_\_\_ unit cubes

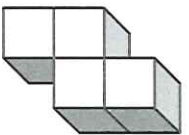


\_\_\_\_\_ unit cubes

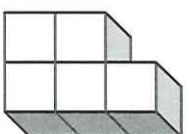
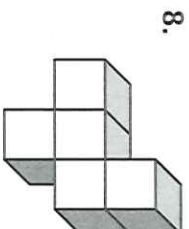
Compare the number of unit cubes in each solid figure. Use  $<$ ,  $>$ , or  $=$ .



\_\_\_\_\_ unit cubes ○ \_\_\_\_\_ unit cubes



\_\_\_\_\_ unit cubes ○ \_\_\_\_\_ unit cubes



**Problem Solving**

9. A carton can hold 1,000 unit cubes that measure 1 inch by 1 inch by 1 inch. Describe the dimensions of the carton using unit cubes.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

10. **WRITE** *Math* Draw and label examples of all rectangular prisms built with 16 unit cubes.

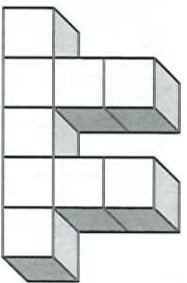
\_\_\_\_\_

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\_\_\_\_\_

### Lesson Check (5.MD.C.3a)

1. Cala stacked some blocks to make the figure below. How many blocks are in Cala's figure?



2. Quentin has 18 unit cubes. How many different rectangular prisms can he build if he uses all of the cubes?

\_\_\_\_\_

\_\_\_\_\_

### Spiral Review (5.MD.A.1, 5.MD.C.3, 5.G.B.4)

3. In what shape are the lateral faces of a pyramid?
4. The Arnold family arrived at the beach at 10:30 A.M. They spent  $3\frac{3}{4}$  hours there. What time did they leave the beach?

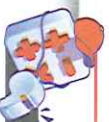
\_\_\_\_\_

\_\_\_\_\_

5. Complete the following statement. Write *sometimes, always, or never*.
6. The tire on Frank's bike moves 75 inches in one rotation. How many rotations will the tire have made after Frank rides 50 feet?

The opposite sides of a parallelogram  
are \_\_\_\_\_ congruent.

\_\_\_\_\_



**FOR MORE PRACTICE**  
**GO TO THE**  
**Personal Math Trainer**