Name _____

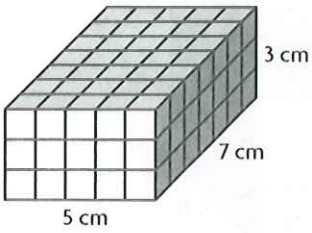
Practice and Homework Lesson 11.6

Understand Volume

COMMON CORE STANDARD—5.MD.C.3b
5.MD.C.4 *Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.*

Use the unit given. Find the volume.

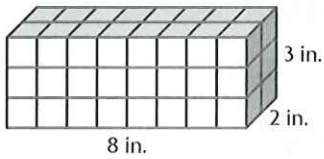
1.



Each cube = 1 cu cm

Volume = 105 cu cm

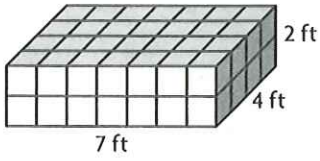
2.



Each cube = 1 cu in.

Volume = _____ cu _____

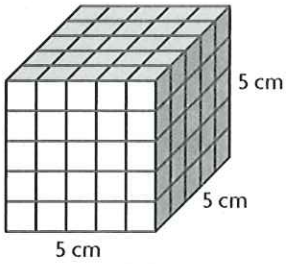
3.



Each cube = 1 cu ft

Volume = _____ cu _____

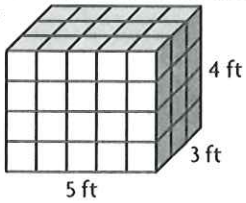
4.



Each cube = 1 cu cm

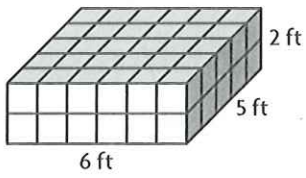
Volume = _____ cu _____

5. Compare the volumes. Write <, >, or =.



Each cube = 1 cu ft

_____ cu ft ◯ _____ cu ft



Each cube = 1 cu ft

Problem Solving Real World

6. A manufacturer ships its product in boxes with edges of 4 inches. If 12 boxes are put in a carton and completely fill the carton, what is the volume of the carton?

_____

_____

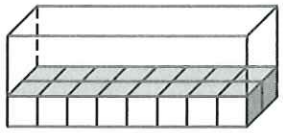
7. Matt and Mindy each built a rectangular prism that has a length of 5 units, a width of 2 units, and a height of 4 units. Matt used cubes that are 1 cm on each side. Mindy used cubes that are 1 in. on each side. What is the volume of each prism?

_____

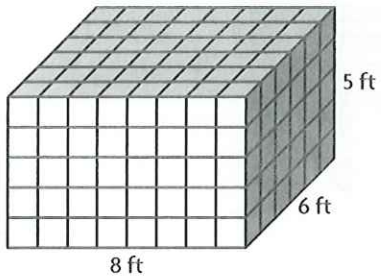
_____

Lesson Check (5.MD.C.3b, 5.MD.C.4)

1. Elena packed 48 cubes into this box. Each cube has edges that are 1 centimeter. How many layers of cubes did Elena make?

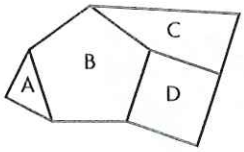


2. What is the volume of the rectangular prism?

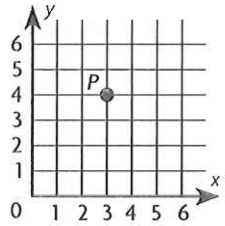


Spiral Review (5.MD.A.1, 5.G.A.1, 5.G.B.3, 5.G.B.4)

3. Juan made a design with polygons. Which polygon in Juan's design is a pentagon?



4. What ordered pair describes the location of point P?



5. What is the least number of acute angles that a triangle can have?

6. Karen bought 3 pounds of cheese to serve at a picnic. How many ounces of cheese did Karen buy?