

Name _____

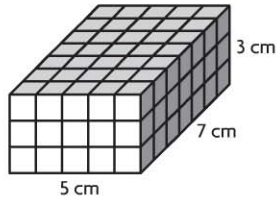
Understand Volume

COMMON CORE STANDARDS CC.5.MD.3b, CC.5.MD.4

Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.

Use the unit given. Find the volume.

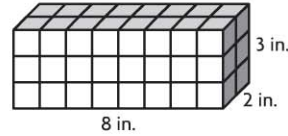
1.



Each cube = 1 cu cm

Volume = 105 cu cm

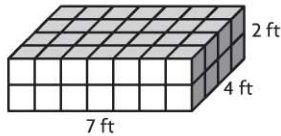
2.



Each cube = 1 cu in.

Volume = _____ cu _____

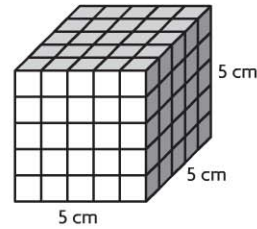
3.



Each cube = 1 cu ft

Volume = _____ cu _____

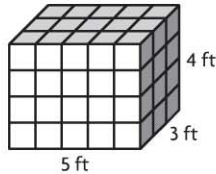
4.



Each cube = 1 cu cm

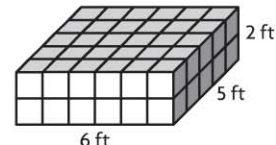
Volume = _____ cu _____

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



Each cube = 1 cu ft

_____ cu ft ○ _____ cu ft



Each cube = 1 cu ft

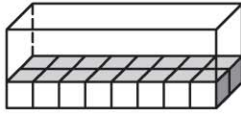
Problem Solving **REAL WORLD**

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?

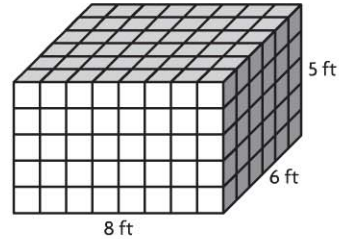
Lesson Check (CC.5.MD.3b, CC.5.MD.4)

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



- (A) 2
- (B) 3
- (C) 4
- (D) 8

2. What is the volume of the rectangular prism?



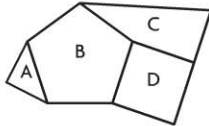
Each cube = 4 cu ft

- (A) 40 cubic inches
- (B) 40 cubic feet
- (C) 240 cubic inches
- (D) 240 cubic feet

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

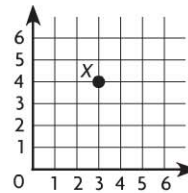
3. Juan made a design with polygons. Which polygon in Juan's design is a pentagon?

(Lesson 11.1)



- (A) Figure A
- (B) Figure B
- (C) Figure C
- (D) Figure D

4. Which ordered pair describes the location of point X? (Lesson 9.2)



- (A) (3, 4)
- (B) (4, 3)
- (C) (4, 4)
- (D) (3, 3)

5. What is the least number of acute angles that a triangle can have? (Lesson 11.2)

- (A) 0
- (B) 1
- (C) 2
- (D) 3

6. Karen bought 3 pounds of cheese to serve at a picnic. How many ounces of cheese did Karen buy? (Lesson 10.3)

- (A) 24 ounces
- (B) 32 ounces
- (C) 36 ounces
- (D) 48 ounces