Name _____   Date _____

1. The following solids are made up of 1-cm cubes. Find the total volume of each figure, and write it in the chart below.
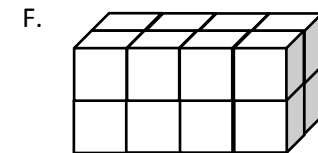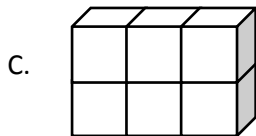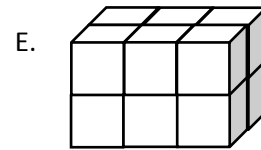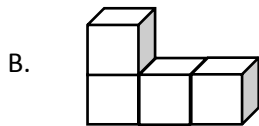
A.

B.

C.

D.

E.

F.
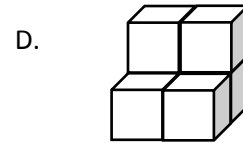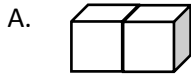
Figure	Volume	Explanation
A	2 cm³	I counted the cubes
B	4 cm³	I added 3 cubes (bottom) and 1 cube (top)
C	6 cm³	I multiplied 2 layers × 3 cubes
D	6 cm³	I added 4 cubes on bottom with 2 on top
E	12 cm³	There are 6 cubes on each "floor" of the building
F	16 cm³	I counted 8 cubes on the top "floor" and then multiplied by 2.

5. Draw the figures on the dot paper with the given number of unit cubes.
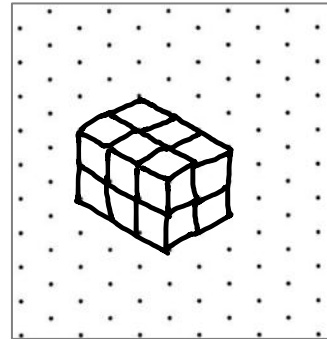
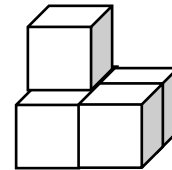a. 3 cubic units
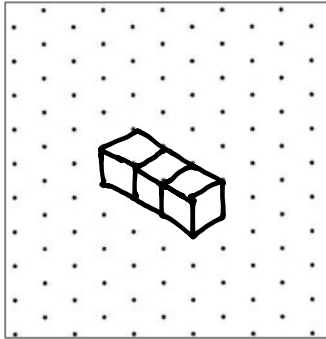
b. 6 cubic units
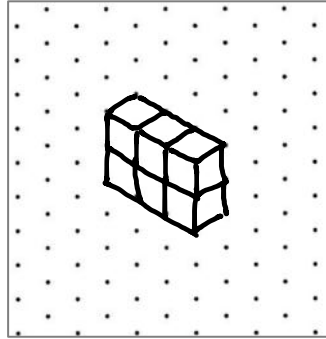
c. 12 cubic units

6. John built and drew a structure that has a volume of 5 cubic centimeters. His little brother tells him he made a mistake because he only drew 4 cubes. Help John explain to his brother why his drawing is accurate.

The cube on top is sitting on top of the cube that John's brother thought was missing.

7. Draw another figure below that represents a structure with a volume of 5 cubic centimeters.

Lesson 1:   Explore volume by building with and counting unit cubes.
Date: 1/10/14

engage^ny   5.A.13