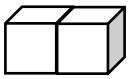
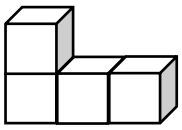
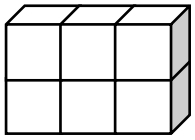
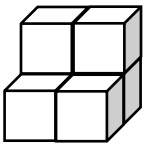
Name _____ Date _____

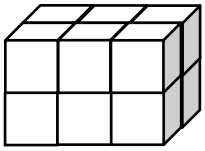
1. The following solids are made up of 1 cm cubes. Find the total volume of each figure, and write it in the chart below.

A. 

B. 

C. 

D. 

E. 

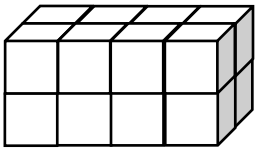
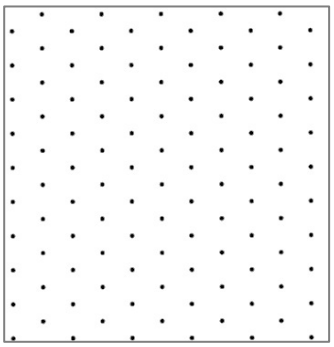
F. 

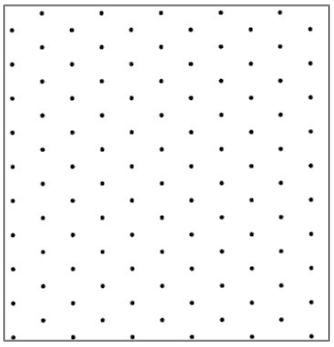
Figure	Volume	Explanation
A	$2cm^3$	I counted the cubes.
B		
C		
D		
E	$12cm^3$	I counted 6 cubes on the top layer and multipled by 2 (6×2=12).
F		

2. Draw a figure with the given volume on the dot paper.

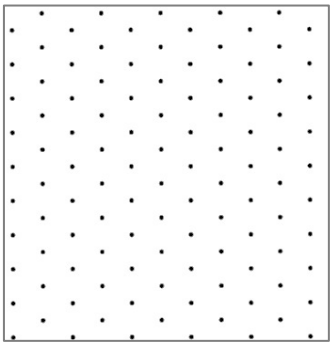
a. 3 cubic units



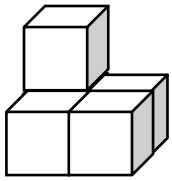
b. 6 cubic units



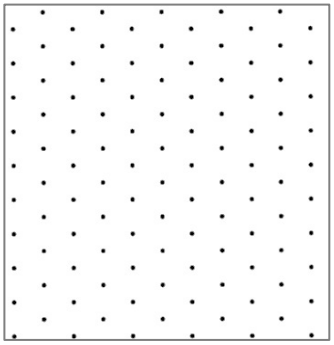
c. 12 cubic units



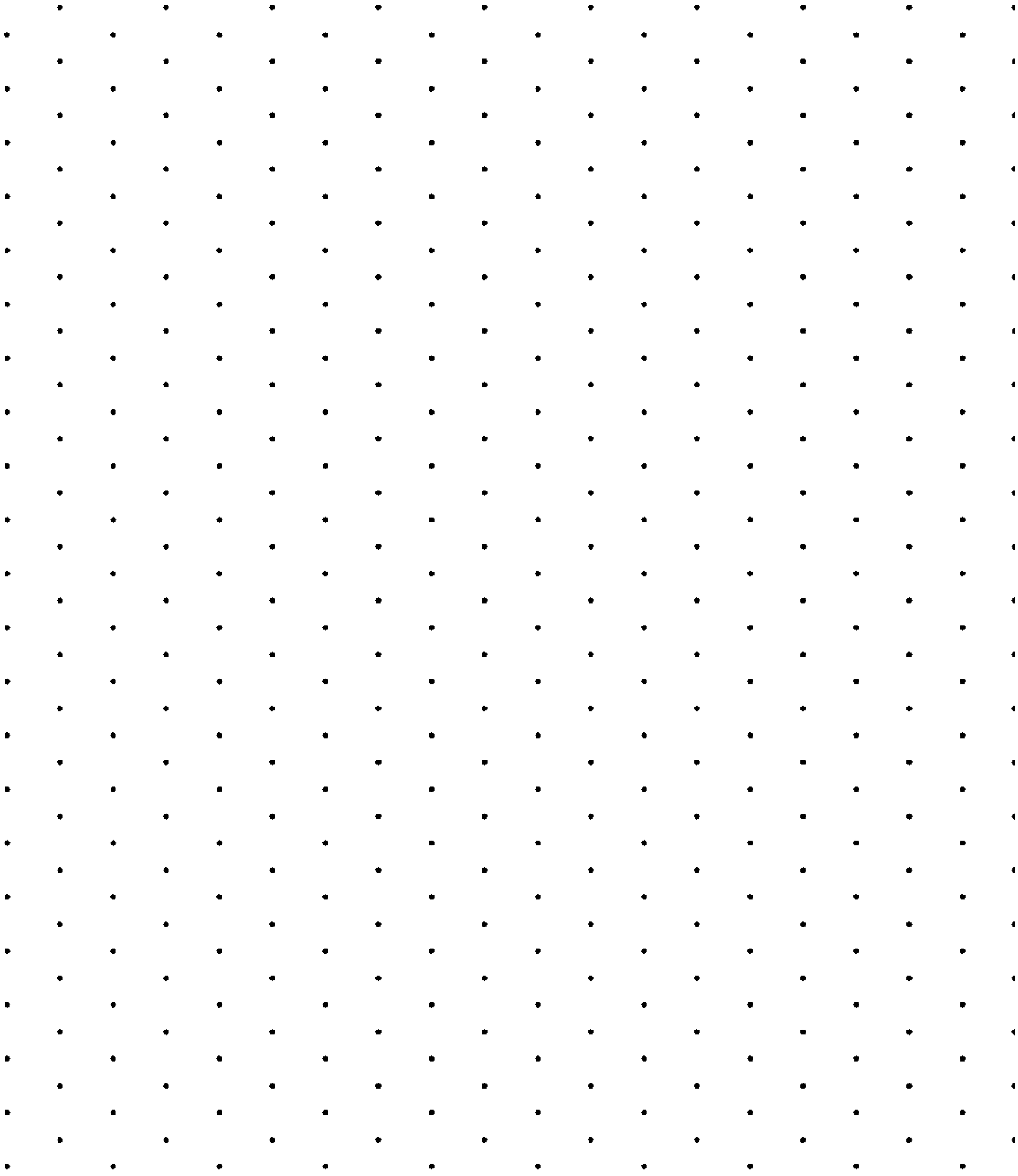
3. John built and drew a structure that has a volume of 5 cubic centimeters. His little brother tells him he made a mistake because he only drew 4 cubes. Help John explain to his brother why his drawing is accurate.



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



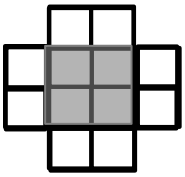
centimeter grid paper



isometric dot paper

Name _____ Date _____

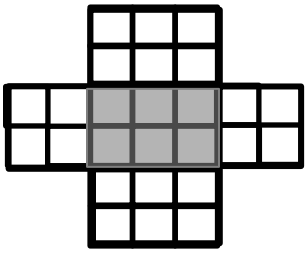
1. Make the following boxes on centimeter grid paper. Cut and fold each to make 3 open boxes, taping them so they hold their shapes. How many cubes would fill each box? Explain how you found the number.

a. 

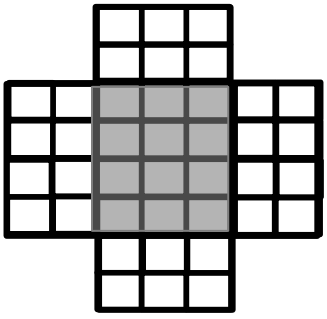
Number of cubes: **4 cubes**

4 cm^3

Bottom layer = 4 cubes
flaps show 1 layer

b. 

Number of cubes: _____

c. 

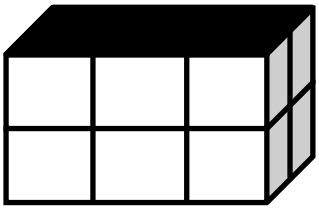
Number of cubes: _____

2. How many centimeter cubes would fit inside each box? Explain your answer using words and diagrams on the box. (The figures are not drawn to scale.)

a. 

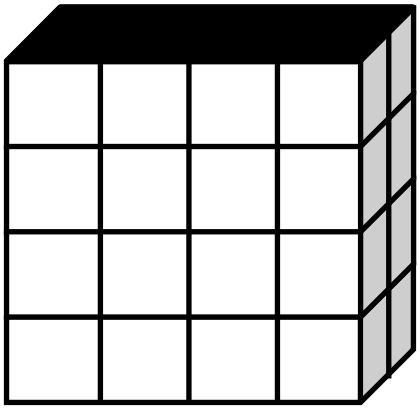
Number of cubes: _____

Explanation:

b. 

Number of cubes: _____

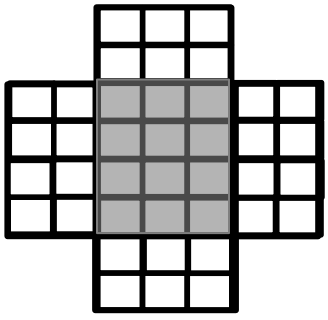
Explanation:

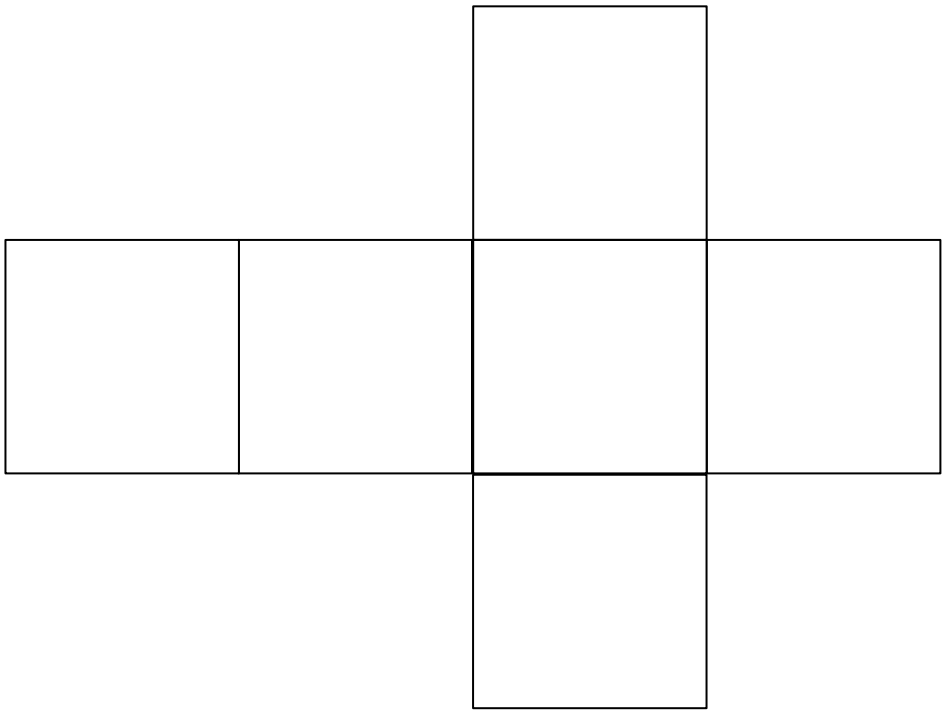
c. 

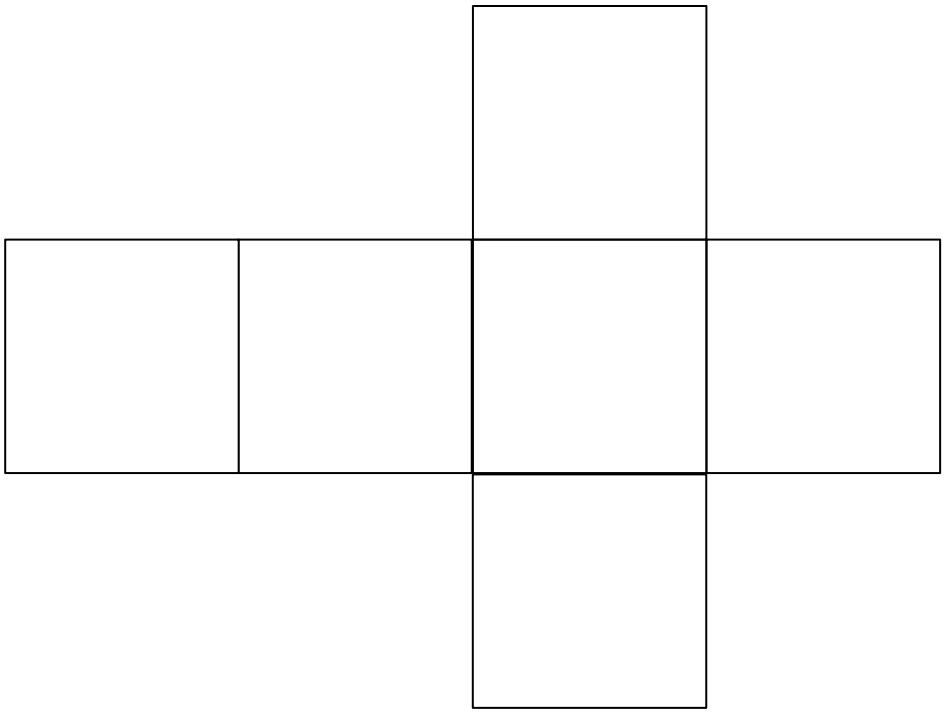
Number of cubes: _____

Explanation:

3. The box pattern below holds 24 1-centimeter cubes. Draw two different box patterns that would hold the same number of cubes.







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