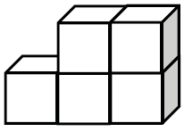
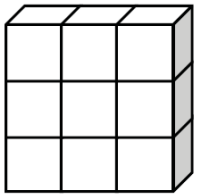
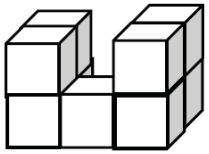
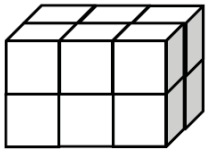
Name _____ Date _____

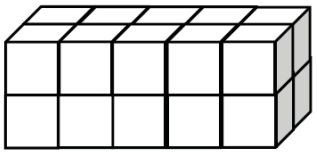
A.

B. 

C. 

D. 

E. 

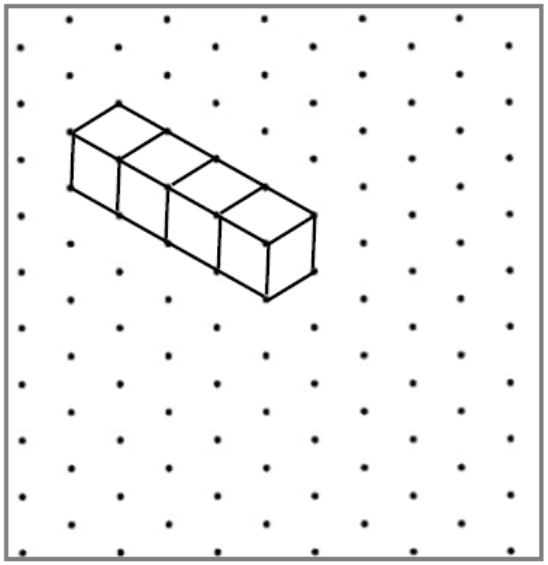
F. 

Directions: Using the cubes on the left, determine the overall volume shown and write an explanation to the right of how you determined the volume.

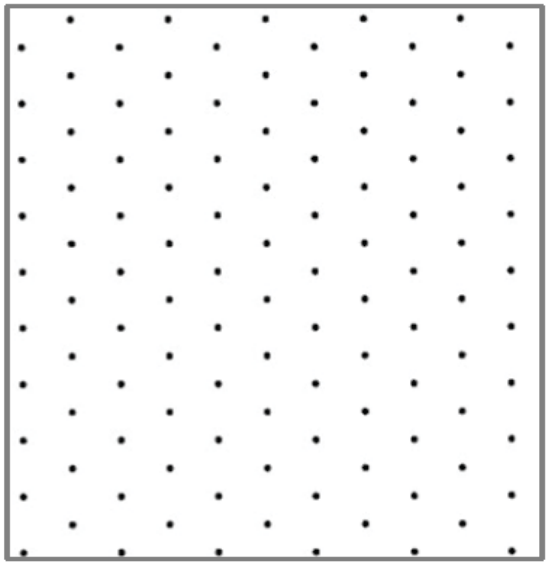
Figure	Volume	Explanation
A		
B		
C		
D		
E		
F		

DIRECTIONS: Create 3-D cubes based on the volume given. (a) has been done for you.

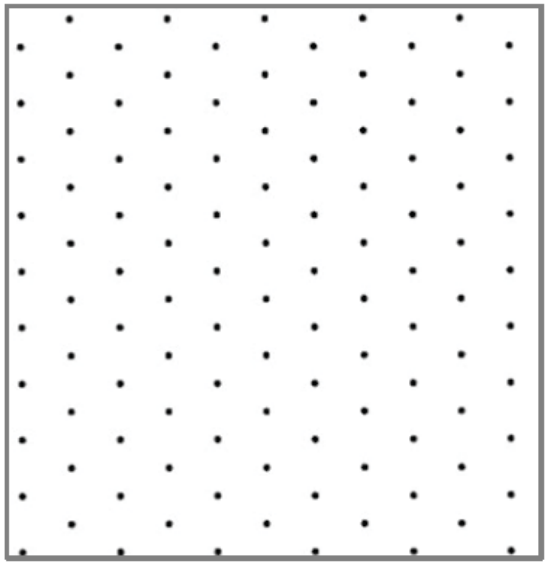
a. 4 cubic units



b. 7 cubic units

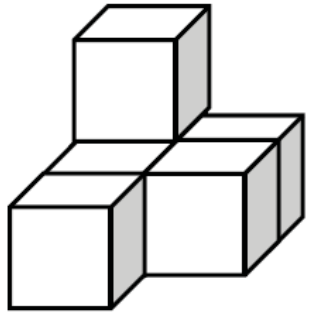


c. 8 cubic units



Joyce says that the figure below, made of 1 cm cubes, has a volume of 5 cubic centimeters.

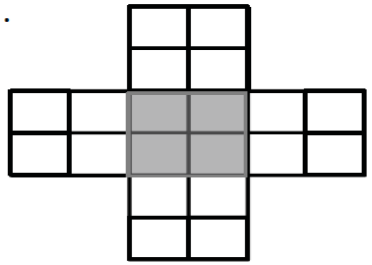
Explain her mistake.



Name _____ Date _____

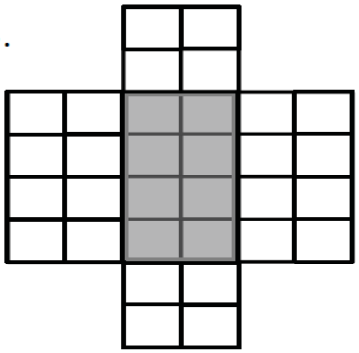
1. Shade the following figures on centimeter grid paper. Cut and fold each to make 3 open boxes, taping them so they hold their shapes. Pack each box with cubes. Write how many cubes fill the box.

a.



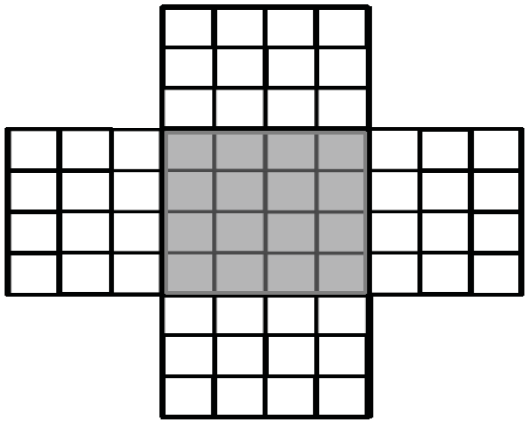
Number of cubes: _____

b.



Number of cubes: _____

c. Number of cubes: _____

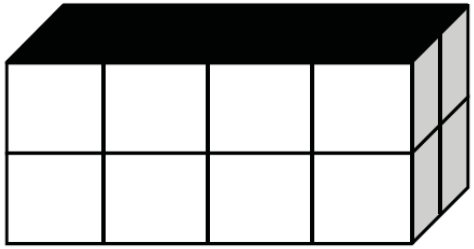


2. Predict how many centimeter cubes will fit in each box, and briefly explain your prediction. Use cubes to find the actual volume. (The figures are not drawn to scale.)

a.

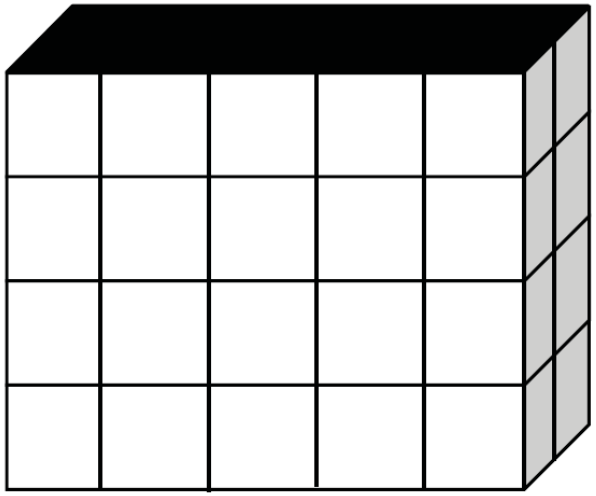
Prediction: _____

Actual: _____

b. 

Prediction: _____

Actual: _____

c. 

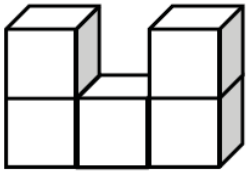
Prediction: _____

Actual: _____

Name _____ Date _____

Independent Practice

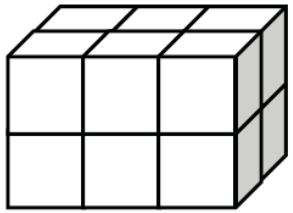
1. What is the volume of the figures pictured below?

a. 

The volume of the figure above is _____ because _____

_____

_____

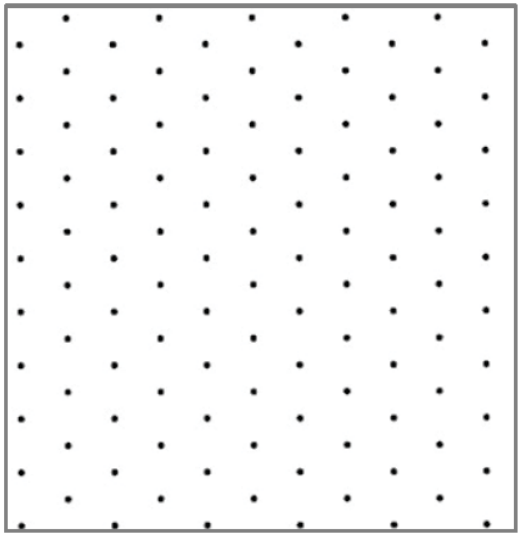
b. 

The volume of the figure above is _____ because _____

_____

_____

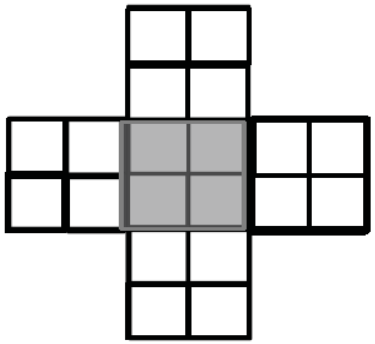
2. Draw a picture of a figure with a volume of 3 cubic units on the dot paper.



Name _____ Date _____

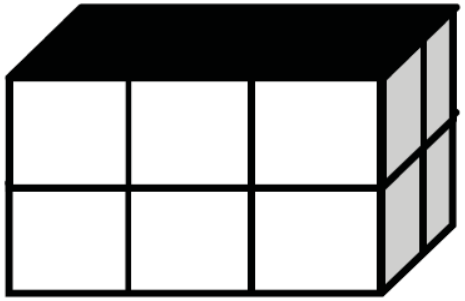
Independent Practice

1. If this net were to be folded into a box, how many cubes would fill it?



Number of cubes: _____

2. Predict how many centimeter cubes will fit in the box, and briefly explain your prediction. Use cubes to find the actual volume. (The figure is not drawn to scale.)



Prediction: _____

Actual: _____