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:
		1 layer with 4 cubes.
	b.	Number of cubes: 12
		2 layers with 6 cubes in each layer.
	c.	Number of cubes: 24
		2 layers with 12 cubes in each layer



Date:

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; the first box is 3 centimeters across and 2 centimeters wide.)

a.

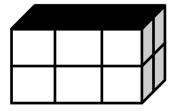


Number of cubes:

Explanation: There is one layer with

le cubes in the layer.

b.

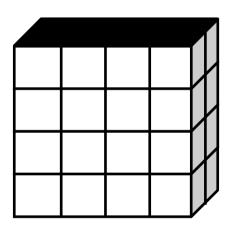


Number of cubes: _________

Explanation: There are 2 layers. Each

layer has 6 cubes. 6x2=12

c.



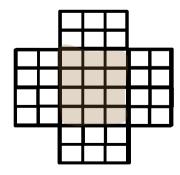
Number of cubes: 32

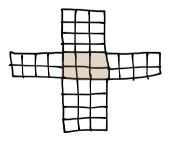
Explanation: There are 4 layers.

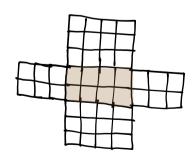
Each layer has 8 cubes.

8x4=32

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









Lesson 2:

Find the volume of a right rectangular prism by packing with cubic units and counting.

Date: 1/2

1/10/14

