

Name \_\_\_\_\_

Date **Week 24**

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.

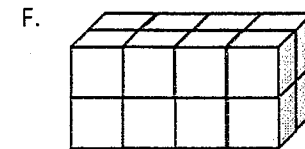
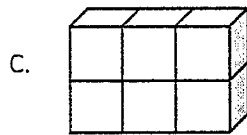
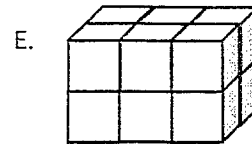
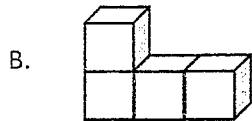
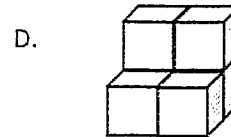
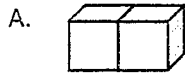


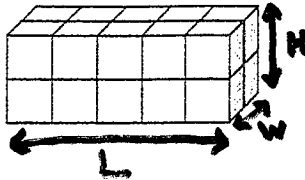
Figure	Volume	Explanation
A	2cm <sup>3</sup>	1 layer of 2 <span style="float: right;">1 × 2 = 2</span>
B	4cm <sup>3</sup>	1 layer of 3 + 1 layer of 1 <span style="float: right;">3 + 1 = 4</span> <small>(1 × 3) (1 × 1)</small>
C	6cm <sup>3</sup>	2 layers of 3 <span style="float: right;">2 × 3 = 6</span>
D	6cm <sup>3</sup>	1 layer of 4 + 1 layer of 2 <span style="float: right;">4 + 2 = 6</span> <small>(1 × 4) (1 × 2)</small>
E	12cm <sup>3</sup>	2 layers of 6 <span style="float: right;">2 × 6 = 12</span>
F	16cm <sup>3</sup>	2 layers of 8 <span style="float: right;">2 × 8 = 16</span>

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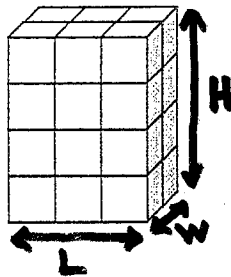
1. Each rectangular prism is built from centimeter cubes. State the dimensions, and find the volume.

a.



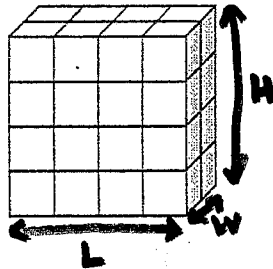
Length: 5 cm  
 Width: 2 cm  
 Height: 2 cm  
 Volume: 20 cm<sup>3</sup>

b.



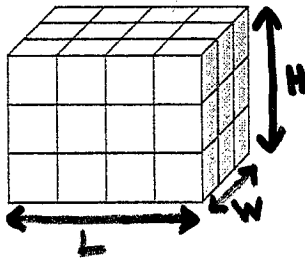
Length: 3 cm  
 Width: 2 cm  
 Height: 4 cm  
 Volume: 24 cm<sup>3</sup>

c.



Length: 4 cm  
 Width: 2 cm  
 Height: 4 cm  
 Volume: 32 cm<sup>3</sup>

d.



Length: 4 cm  
 Width: 2 cm  
 Height: 3 cm  
 Volume: 24 cm<sup>3</sup>

2. Write a multiplication sentence that you could use to calculate the volume for each rectangular prism in Problem 1. Include the units in your sentences.

a. 5cm × 2cm × 2cm = 20cm<sup>3</sup>

b. 3cm × 2cm × 4cm = 24cm<sup>3</sup>

c. 4cm × 2cm × 4cm = 32cm<sup>3</sup>

d. 4cm × 2cm × 3cm = 24cm<sup>3</sup>