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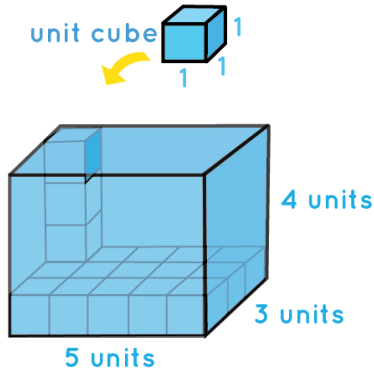
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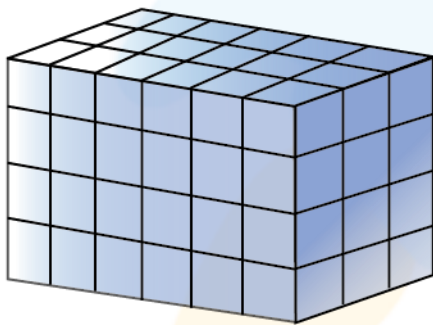
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## VOLUME OF RECTANGULAR PRISM WORKSHEET IV

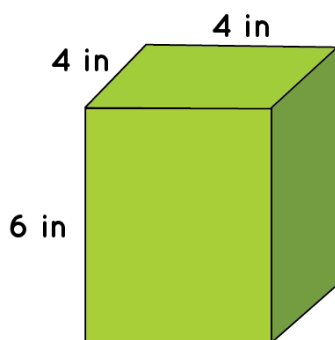
- 1) How many unit cubes are required to fill the box?  
 $5 \times 3 \times 4 = \underline{\quad}$  unit cubes.



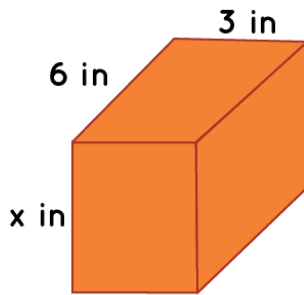
- 2) The length of the rectangular cube is 6 units, the width is 3 unit and the height is 4 units. What is the volume of the cube?



- 3) Find the volume of the given rectangular prism if the length, breadth, and height of the prism are given in the picture below:



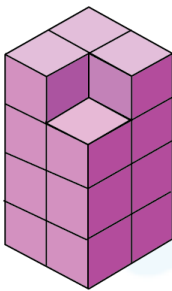
4) If the volume of a rectangular solid is 90 cubic in., the length is 6 in., and the width is 3 in., then what is the height?



**Volume = 90 in<sup>3</sup>**

**x = \_\_\_\_\_**

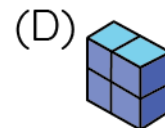
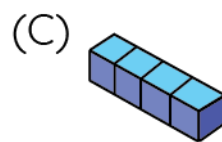
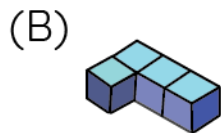
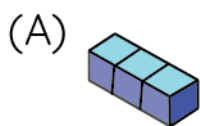
5) The volume of the given prism is \_\_\_\_\_ cubic in.



a) 12 unit cubes   b) 14 unit cubes   c) 15 unit cubes

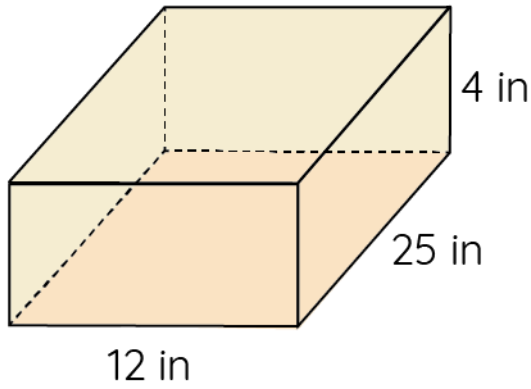
6) Find the volume of a rectangular prism with the base area 125 sq. units and height 10 units.

7) Choose the shape which has volume = 3 cubic units.



8) Find the height of rectangular prism with volume 500 cm cube and base area 200 cm cube.

9) Choose the option that shows the volume of the given prism:



a)  $1550 \text{ in}^3$   
c)  $1250 \text{ in}^3$

b)  $1200 \text{ in}^3$   
d)  $1080 \text{ in}^3$

10) If a drawer is 3 feet wide, 2 feet deep and 3 feet tall. What is the volume of the drawer?

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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

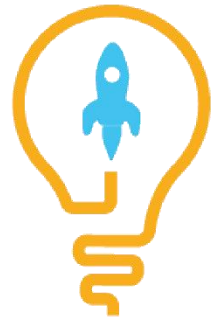
- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	42 unit cubes. Volume of box = 60 unit cubes.
2)	72 cubic units
3)	96 cubic in.
4)	$x = 5$ in.
5)	c) 15 unit cubes
6)	1250 cubic units
7)	A
8)	2.5 cm
9)	1200 in <sup>3</sup>
10)	18 cubic ft.