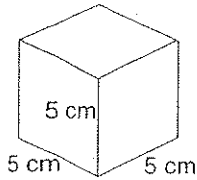


Volume of a Cube

To find the volume of a cube, use the formula **Volume = Base • height**, where B is the area of the base and h is the height.



Step #1 Find the Area of the Base

$$B = \text{length} \cdot \text{width}$$

$$B = 5 \cdot 5$$

$$B = 25 \text{ cm}^2$$

Step #2 Find the Volume

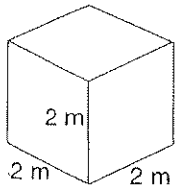
$$V = \text{Base} \cdot \text{height}$$

$$V = 25 \text{ cm}^2 \cdot 5 \text{ cm}$$

$$V = 125 \text{ cm}^3$$

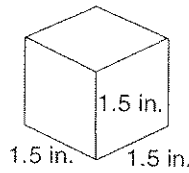
Find the volume of each cube. Since the length, width, and height of a cube are equal, you can use the formula $V = S^3$. Round your answers to the nearest hundredth.

A.



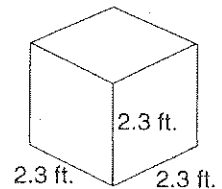
$$V = \underline{\hspace{2cm}}$$

B.



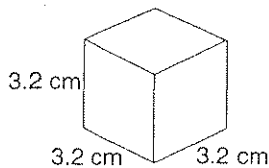
$$V = \underline{\hspace{2cm}}$$

C.



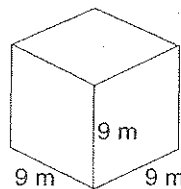
$$V = \underline{\hspace{2cm}}$$

D.



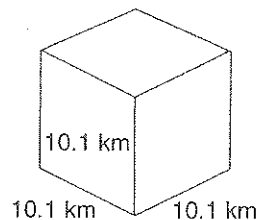
$$V = \underline{\hspace{2cm}}$$

E.



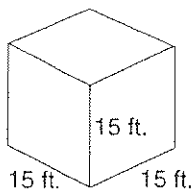
$$V = \underline{\hspace{2cm}}$$

F.



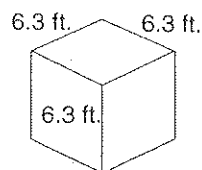
$$V = \underline{\hspace{2cm}}$$

G.



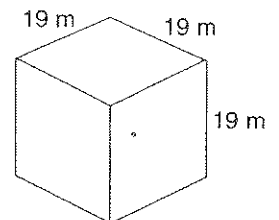
$$V = \underline{\hspace{2cm}}$$

H.



$$V = \underline{\hspace{2cm}}$$

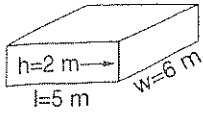
I.



$$V = \underline{\hspace{2cm}}$$

Volume of a Rectangular Prism

To find the volume (V) of a rectangular prism, use the formula $\text{Volume} = \text{Base} \cdot \text{height}$, where B is the area of the base and h is the height.



Step #1 Find the Area of the Base

$$B = \text{length} \cdot \text{width}$$

$$B = 5 \text{ m} \cdot 6 \text{ m}$$

$$B = 30 \text{ m}^2$$

Step #2 Find the Volume

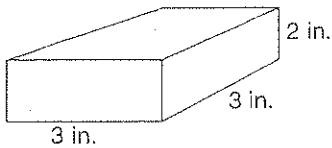
$$V = \text{Base} \cdot \text{height}$$

$$V = 30 \text{ m}^2 \cdot 2 \text{ m}$$

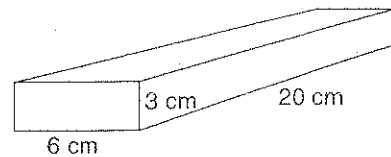
$$V = 60 \text{ m}^3$$

Find the volume of each rectangular prism using the formula $V = Bh$. Express volume in cubic units.

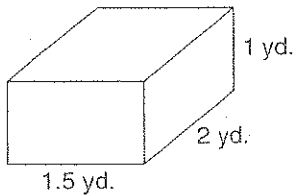
A.



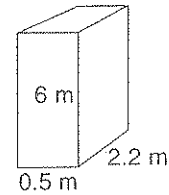
B.



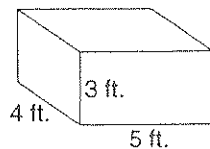
C.



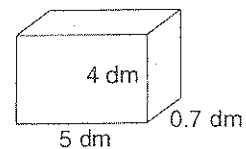
D.



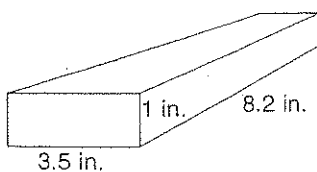
E.



F.



G.



H.

