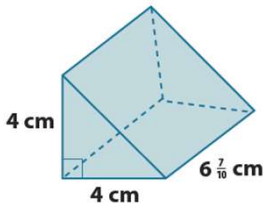
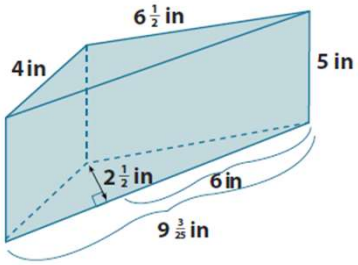
Volume of Prisms Worksheets

1. Calculate the volume of each solid using the formula $V = Bh$ (all angles are 90 degrees





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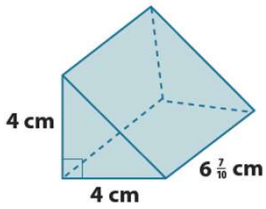


$$V = Bh_{\text{prism}}$$

$$B = \frac{1}{2}bh_{\text{triangle}}$$

$$B = \frac{1}{2} \cdot 4 \text{ cm} \cdot 4 \text{ cm}$$

$$B = 2 \cdot 4 \text{ cm}^2$$

$$B = 8 \text{ cm}^2$$

$$V = Bh$$

$$V = 8 \text{ cm}^2 \cdot 6\frac{7}{10} \text{ cm}$$

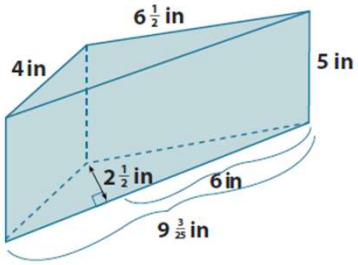
$$V = 48 \text{ cm}^3 + \frac{56}{10} \text{ cm}^3$$

$$V = 48 \text{ cm}^3 + 5 \text{ cm}^3 + \frac{6}{10} \text{ cm}^3$$

$$V = 53 \text{ cm}^3 + \frac{3}{5} \text{ cm}^3$$

$$V = 53\frac{3}{5} \text{ cm}^3$$

The volume of the solid is $53\frac{3}{5} \text{ cm}^3$.



$$V = Bh_{prism}$$

$$B = \frac{1}{2}bh_{\text{triangle}}$$

$$B = \frac{1}{2} \cdot 9\frac{3}{25} \text{ in.} \cdot 2\frac{1}{2} \text{ in.}$$

$$B = \frac{1}{2} \cdot 2\frac{1}{2} \text{ in.} \cdot 9\frac{3}{25} \text{ in.}$$

$$B = \left(1\frac{1}{4}\right) \cdot \left(9\frac{3}{25}\right) \text{in}^2$$

$$B = \left(\frac{5}{4} \cdot \frac{228}{25}\right) \text{in}^2$$

$$B = \frac{57}{5} \text{ in}^2$$

$$V = Bh$$

$$V = \left(\frac{57}{5} \text{ in}^2\right) \cdot 5 \text{ in.}$$

$$V = 57 \text{ in}^3$$

The volume of the solid is 57 in^3.