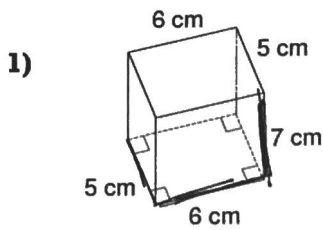
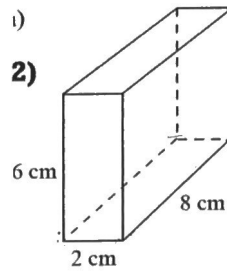


# Prisms

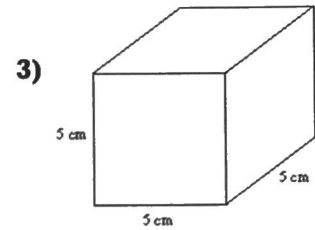
$$V = l \cdot w \cdot h$$



$$\frac{V = 5(6)(7)}{210 \text{ cm}^3}$$

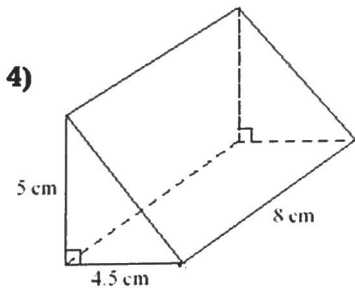


$$\frac{V = 2(8)(6) = 96 \text{ cm}^3}{}$$

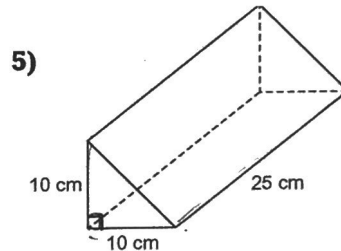


$$\frac{V = (5)(5)(5) = (5)^3}{125 \text{ cm}^3}$$

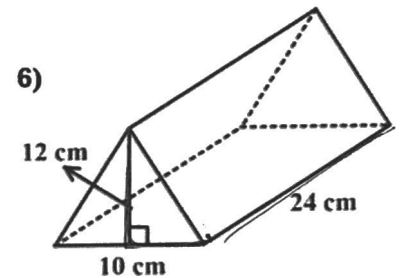
$$V = \frac{l \cdot w \cdot h}{2}$$



$$\frac{V = (4.5)(5)(8)}{2} = \frac{180 \text{ cm}^3}{2} = 90 \text{ cm}^3$$



$$\frac{V = (10)(10)(25) = 2500}{2} = 1250 \text{ cm}^3$$



$$\frac{V = (10)(12)(24) = 2880}{2} = 1440 \text{ cm}^3$$

7) A given rectangular prism has a volume of  $455 \text{ ft}^3$ . If the prism has a length of 5 ft. and a length of 7 ft., find the height of the prism.

$$V = l \cdot w \cdot h$$

$$\frac{455}{35} = \frac{(5)(7)(h)}{35}$$

$$h = 13$$

$$h = 13 \text{ ft.}$$

8) A cube has a volume of  $857.375 \text{ in}^3$ . Find the length, width, and height of the cube.

$$V = l \cdot w \cdot h$$

$$V = (s)^3$$

$$\sqrt[3]{857.375} = \sqrt[3]{(s)^3}$$

$$9.5 = s$$

$$s = 9.5 \text{ in}$$

$$\left. \begin{array}{l} L = 9.5 \text{ in} \\ W = 9.5 \text{ in} \\ H = 9.5 \text{ in} \end{array} \right\}$$