

$$V_{\text{Half Splan}} = \frac{4}{3} \pi r^{3} + 2 \qquad V_{\text{cone}} = \frac{1}{3} \pi r^{2} h$$

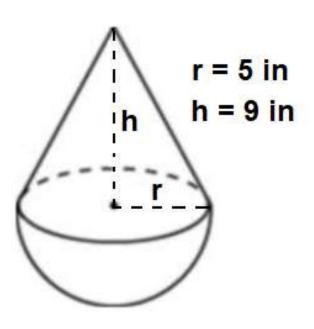
$$= \frac{4}{3} \cdot \pi \cdot 4^{3} + 2 \qquad = \frac{1}{3} \cdot \pi \cdot 4^{2} \cdot 7$$

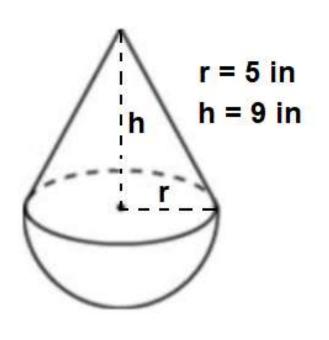
$$= (17.29 \text{ cm}^{3})$$

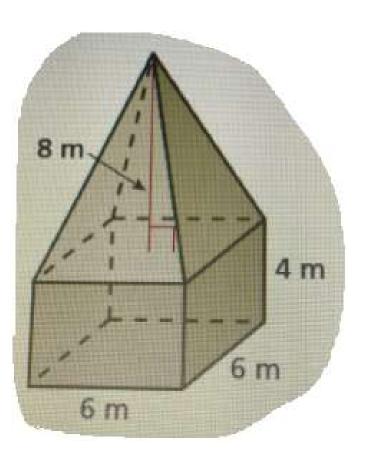
$$V_{\text{Total}} = V_{\text{Half Splan}} + V_{\text{cone}}$$

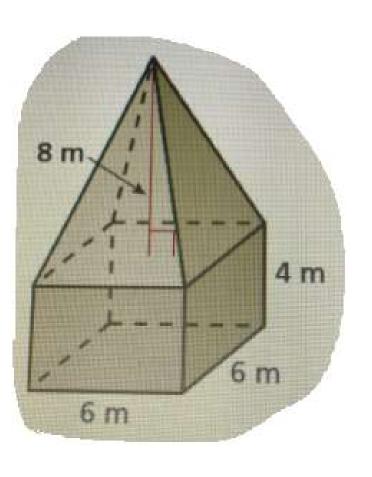
$$= 134.04 + 117.29$$

$$= (251.33 \text{ cm}^{3})$$

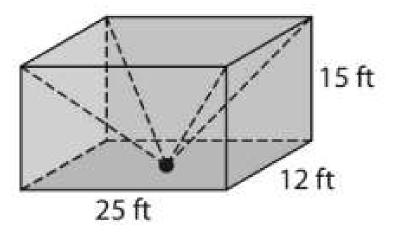




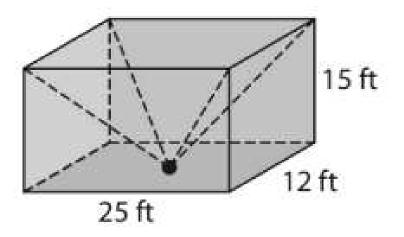




Find the volume. Round to the nearest hundredth if necessary. (The pyramid is cut out of the rectangular prism)



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$$V_{Prism} = LWH \qquad V_{Pyramt} = \frac{1}{3}Bh$$

$$= 25(12)(15) \qquad = \frac{1}{3} \cdot 25 \cdot 12 \cdot 15$$

$$= 4,500 + 3$$

$$= 4,500 - 1,500$$

$$= 3,000 + 3$$