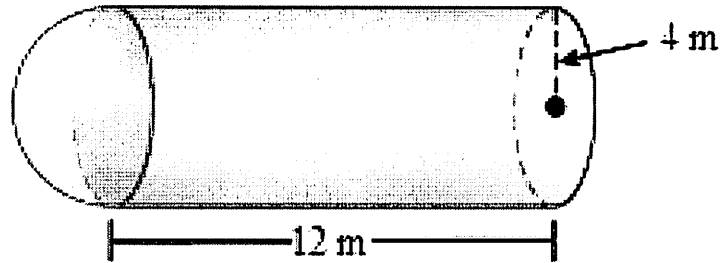


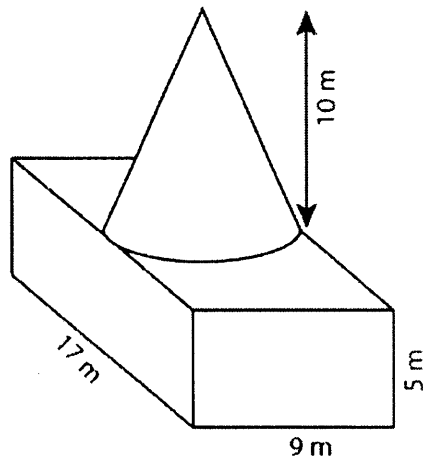
I can calculate the Volume of Composite Figures

Volume of Composite Figures

Find the Volume of the Half-Sphere and Cylinder combination *in terms of π*



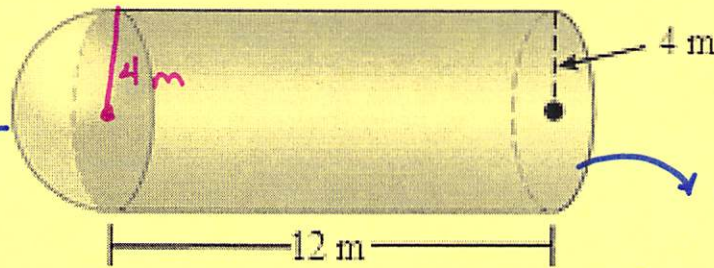
Find the Volume of the Cone and Rectangular Prism *to the nearest tenth of a cubic meter*



I can calculate the Volume of Composite Figures

Volume of Composite Figures

Find the Volume of the Half-Sphere and Cylinder combination in terms of π



Half-Sphere

$$V = \frac{4}{3} \cdot \pi \cdot r^3$$

$r = 4 \text{ m}$ $V = \frac{4}{3} \cdot \pi \cdot 4^3$

$$V = 85.3 \pi$$

$\div 2$

$$V_{\frac{1}{2} \text{SPH}} = 42.6 \pi \text{ m}^3$$

Cylinder

$$V = \pi \cdot r^2 \cdot h$$

$$V = \pi \cdot 4^2 \cdot 12$$

$$V = 192 \pi \text{ m}^3$$

Total Volume

$$234.6 \pi \text{ m}^3$$

Find the Volume of the Cone and Rectangular Prism to the nearest tenth of a cubic meter

$r = 4.5 \text{ m}$

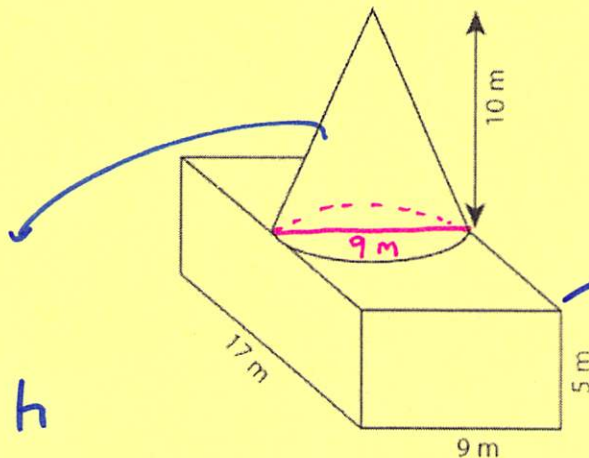
$h = 10 \text{ m}$

Cone

$$V = \frac{1}{3} \cdot \pi \cdot r^2 \cdot h$$

$$V = \frac{1}{3} \cdot \pi \cdot (4.5)^2 \cdot 10$$

$$V = 212.1 \text{ m}^3$$



RP

$$V = L \times W \times H$$

$$V = 17 \cdot 9 \cdot 5$$

$$V = 765 \text{ m}^3$$

Total Volume:

$$977.1 \text{ m}^3$$