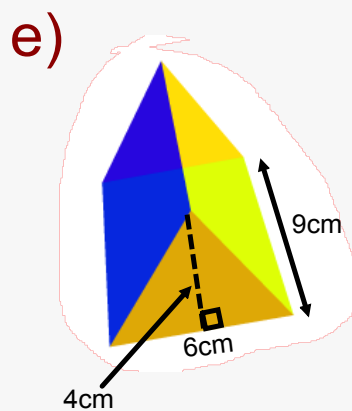
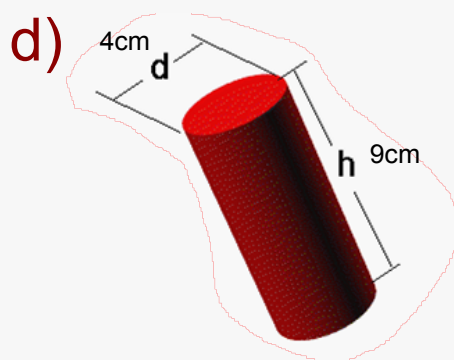
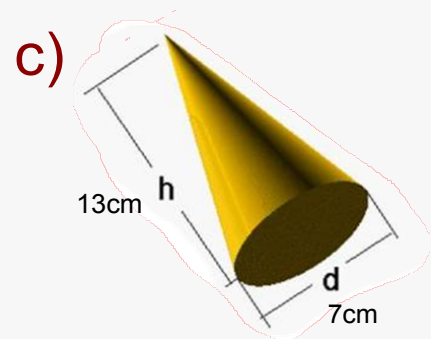
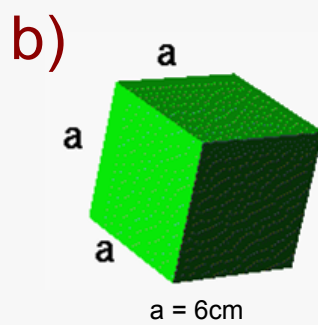
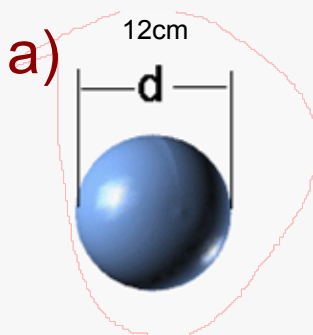
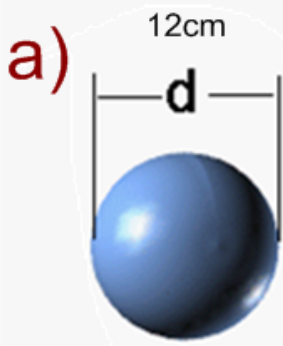


Calculate the Volume





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

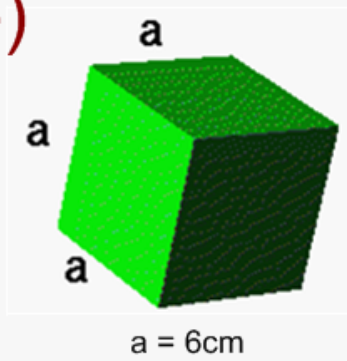
$$V = \frac{4}{3} \pi (6)^3$$

$$V = \frac{4}{3} \pi (216)$$

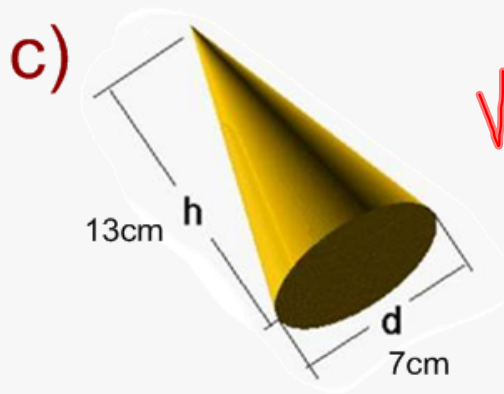
$$V = 1.3 \pi (216)$$

$$V = 904.8 \text{ cm}^3$$

b)



$$V = l \times w \times h$$
$$V = 6 \times 6 \times 6$$
$$V = 216 \text{ cm}^3$$



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

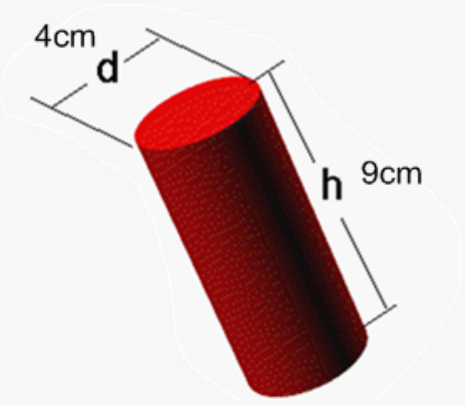
$$V = \frac{\pi (3.5)^2 \times 13}{3}$$

$$V = \frac{\pi (12.25)(13)}{3}$$

$$V = \frac{500.3}{3}$$

$$V = 166.8 \text{ cm}^3$$

d)



$$V = \pi r^2 \times H$$

$$V = \pi (2)^2 \times 9$$

$$V = \pi (4) \times 9$$

$$V = 113.1 \text{ cm}^3$$

e)



$$V = \left(\frac{b \times h}{2} \right) \times H$$

$$V = \left(\frac{6 \times 4}{2} \right) \times 9$$

$$V = \left(\frac{24}{2} \right) \times 9$$

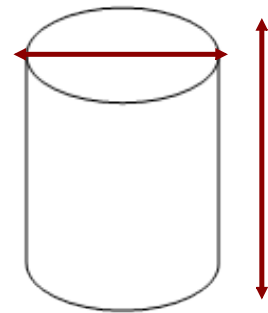
$$V = 12 \times 9$$

$$V = 108 \text{ cm}^3$$

A contractor is ordering cement for a sauna tube. He is installing lights and would like to attach the lamp pole to a solid base that goes 4ft underground below the frost level. If the diameter of the sauna tube is 18 inches, how much cement will he need?



Convert 4ft to inches



$$V = 3.14r^2 \times H$$

