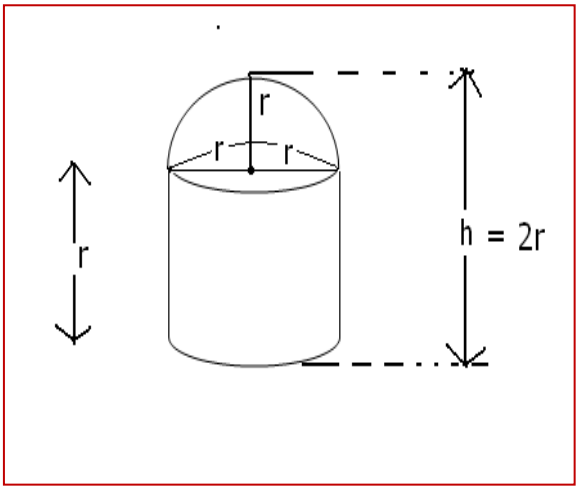
Answer 106. Volume of building



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

$$= \frac{2}{3} \pi r^3 + \pi r^2 (r)$$

$$= \frac{2}{3} \pi r^3 + \pi r^3$$

$$= \frac{5}{3} \pi r^3$$

According to problem

$$\frac{5}{3} \pi r^3 = \frac{880}{21} m^3$$

or $$\frac{5}{3} \times \frac{22}{37} r^3 = \frac{880}{21} m^3$$

$$r^3 = 8$$

$$r = 2 \text{ m}$$

Height of building = 2r

$$= 2 \times 2$$

$$= 4 \text{ m}$$