



$$\frac{12}{17}$$

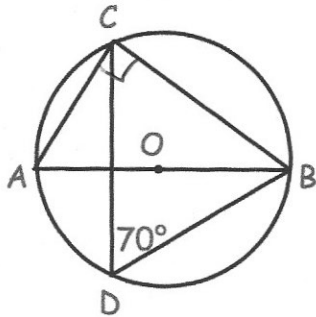
Write as a decimal to 6 decimal places (non-calculator).

$$\begin{array}{r} 17 \\ 34 \\ 51 \\ 68 \\ 85 \\ 102 \\ 119 \\ 136 \end{array}$$

$$00.705882$$

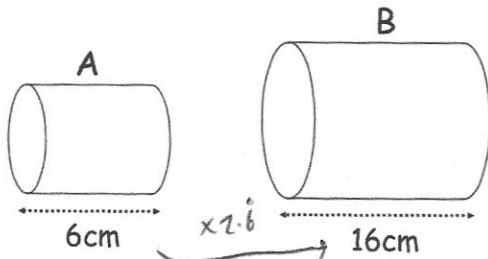
$$17 \overline{) 12.000000}$$

$$0.705882$$



AB is the diameter. O is the centre. Find angles

- (a) CAB 70° (b) ABC 20°



A and B are similar.

The volume of A is 200cm^3 .

Find the volume of B.

$$200 \times 2.6^3$$

$$3792 = 6\text{cm}^3$$

W is directly proportional to the square of M.

When $W = 80$, $M = 2$.

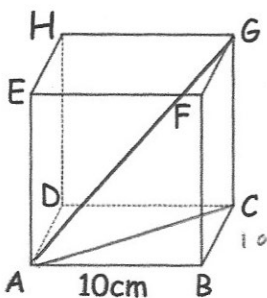
Work out W when $M = 6$.

$$W \propto M^2 \quad W = 20M^2$$

$$W = kM^2 \quad W = 20 \times 6^2$$

$$80 = k \times 4 \quad = 720$$

$$k = 20 \quad =$$



Can a 12cm rod fit into cube ABCDEFGH?

$$AC^2 = 10^2 + 10^2$$

$$= 200$$

$$AC = 14.14 \dots$$

$$AG^2 = 14.14 \dots^2 + 10^2$$

$$AG = 17.32 \dots$$

Yes