

8th September



Corbettmaths

A special edition packet of cereal contains an extra 30%.

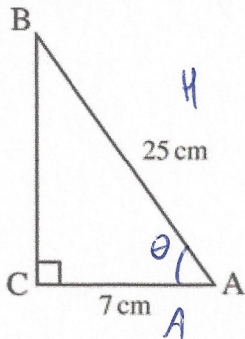
The special edition packet contains 546g.

What does the normal packet contain?

$$130\% = 546$$

$$1\% = 4.2$$

$$100\% = 420\text{g}$$



Calculate angle CAB

$$\cos \theta = \frac{7}{25}$$

$$\theta = \cos^{-1}\left(\frac{7}{25}\right)$$

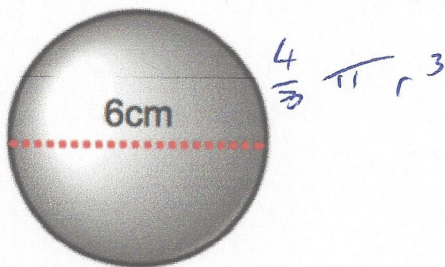
$$= 73.74^\circ$$

Solve

$$x^2 - 6x - 16 = 0$$

$$(x - 8)(x + 2) = 0$$

$$x = 8 \text{ or } x = -2$$



Find the volume of this sphere.

$$\frac{4}{3} \times \pi \times 3^3$$

$$= 113.097 \dots \text{cm}^3$$

$$(36\pi)$$

Mr Jenkins catches the 11:45am bus from London to Glasgow.
The distance between the two cities is 407 miles.
The bus travels at an average speed of 55mph.

19:09

What time should he arrive in Glasgow?

$$t = \frac{d}{s} = \frac{407}{55}$$

7.4 hours

7 hours 24 mins