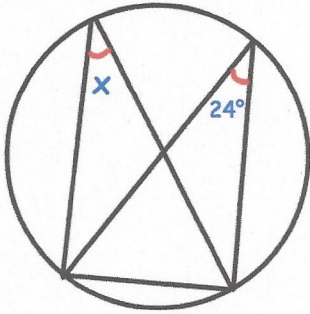


9th December

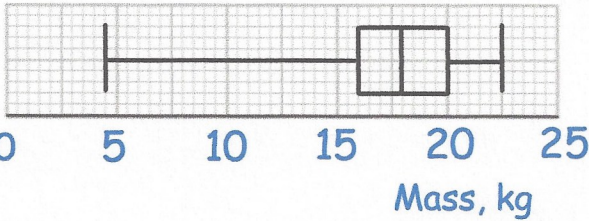


Corbettmaths



Find x

$$24^\circ$$



Work out the interquartile range

$$20 - 16 = 4$$

Simplify

$$\frac{5x^2 - 13x - 6}{x^2 - 9}$$

$$\frac{(5x + 2)(x - 3)}{(x - 3)(x + 3)}$$

$$\frac{5x + 2}{x + 3}$$

A metal cylinder that has diameter 20cm and height 50cm is melted and used to create spheres of radius 4cm.

$$V = \frac{4}{3}\pi r^3 = 268.0825$$

How many complete spheres can be created?

$$58$$

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

$$= \pi \times 10^2 \times 50$$

$$= 15707.96327$$

$$15707.96327 \div 268.0825 \dots$$

$$= 58.5937 \dots$$

Work out

$$16^{1.5} + 8^0$$

$$16^{\frac{3}{2}} + 1$$

$$64 + 1$$

$$65$$