

Simplify  $\sqrt{7} \times \sqrt{2}$ 

$$\sqrt{14}$$

Work out  $(\sqrt{3})^2$ 

$$\sqrt{3} \times \sqrt{3} = \sqrt{9}$$

$$3$$

A sphere of diameter 4cm is cut from a cube with side length 4cm.

$$4 \times 4 \times 4 = 64 \text{ cm}^3$$

What percentage of the cube is wasted?

$$V = \frac{4}{3} \times \pi \times 2^3$$

$$= 33.5103\dots$$

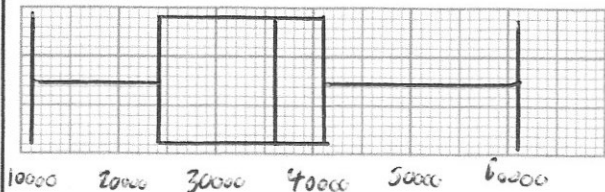
$$\frac{64 - 33.5103\dots}{64} \times 100 = 47.64\%$$

A company employs 200 people.  
25% of the employees earn under £24,000. LQ

50% of the employees earn over £36,000. M  
The interquartile range of the earnings is £17,000. £41000 UQ

The person who earns the most is paid £61,000. lowest £11000

The range of the earnings is £50,000.



Draw a box plot to show this information

Make  $m$  the subject of

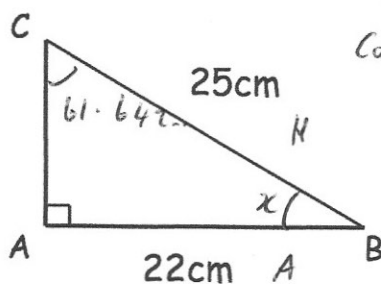
$$m(r + p) = r(h - m)$$

$$mr + mp = hr - mr$$

$$2mr + mp = hr$$

$$m(2r + p) = hr$$

$$m = \frac{hr}{2r + p}$$



$$\cos x = \frac{22}{25}$$

$$x = 28.35\dots$$

How many degrees bigger than angle ABC is angle ACB?

$$33.28^\circ$$