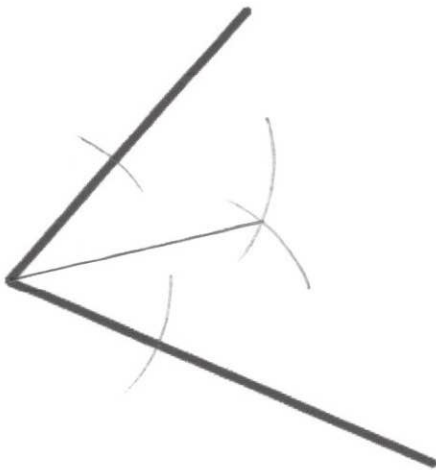


29th January



Corbettmaths



Construct the angle bisector

30% of a number is 24.
Work out the original number.

$$\begin{array}{r} 10\% = 8 \\ 100\% = \underline{80} \end{array} \quad 80$$

145% of a number is 1189
Work out the original number.

$$\begin{array}{r} 145\% = 1189 \\ 1\% = \del{8.2} 8.2 \\ 100\% = \underline{820} \end{array} \quad 820$$

Jasper feeds his dog $\frac{2}{3}$ of a can of dog food each day.

Work out how many cans of dog food are eaten in January.

Give your answer as a mixed number.

$$\frac{2}{3} \times \frac{31}{1} = \frac{62}{3}$$

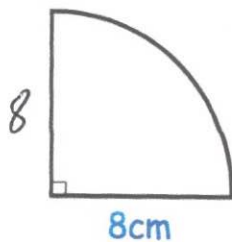
$$20\frac{2}{3} \quad (\text{or } 21)$$



The distance from Ballymena to Lisburn is $20a$.

What is the distance from Ballymena to Antrim?

$$7a + 4$$



Calculate the perimeter of the sector.

$$\begin{array}{r} \pi \times 16 = 16\pi \text{ or } 50.265\dots \\ 16\pi \text{ (or } 50.265\dots) \div 4 = 4\pi \text{ or } 12.566\dots \\ \hline 4\pi + 16 \quad \text{or} \quad 28.566\dots \text{ cm} \end{array}$$