

7th September



Corbettmaths

Solve  $x^2 - 16x - 17 = 0$ 

$$(x - 17)(x + 1) = 0$$

$$x = 17 \text{ or } x = -1$$

Solve  $x^2 + 10x + 21 = 0$ 

$$(x + 3)(x + 7) = 0$$

$$x = -3 \text{ or } x = -7$$

Write  $1.83 \times 10^{-7}$  as an ordinary number.

0.000000183

Write 944000000 in standard form.

 $9.44 \times 10^8$ 

Time (t seconds)	Frequency	$fx$
$20 < t \leq 40$ 30	3	90
$40 < t \leq 60$ 50	7	350
$60 < t \leq 80$ 70	2	140
	<u>12</u>	<u>580</u>

Work out an estimate for the mean

$$580 \div 12 = 48.3 \text{ seconds}$$

Work out

$$\frac{2\pi}{9} + \frac{\pi}{4}$$

$$\frac{8\pi}{36} + \frac{9\pi}{36} = \frac{17\pi}{36}$$

Give your answer as a fraction.

Three angles in a pentagon are 100 degrees each.  $300^\circ$ 

With the two other angles, one is 10 degrees larger than the other.

$$x^\circ, x + 10^\circ$$

Find the size of each angle.

$$540 - 300 = 240$$

$$2x + 10 = 240$$

$$2x = 230$$

$$x = 115$$

$$x + 10 = 125^\circ$$