

16th October



Corbettmaths

Solve $y^2 - 7y - 18 = 0$

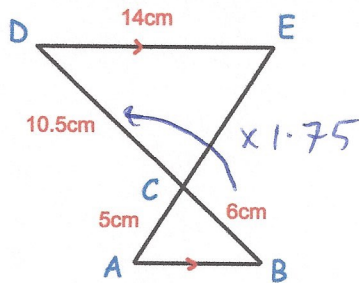
$$(y-9)(y+2) = 0$$

$$y = 9 \text{ or } y = -2$$

Solve $y^2 - 49 = 0$

$$(y-7)(y+7) = 0$$

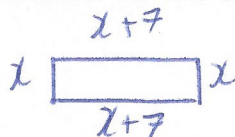
$$y = 7 \text{ or } y = -7$$



ACE and BCD are straight lines.
DE is parallel to AB.
Work out the size of CE.

$$5 \times 1.75 = 8.75$$

A rectangular field is 7 metres longer than wide.
The perimeter of the field is 106m.



Find the area of the field.

$$4x + 14 = 106$$

$$4x = 92$$

$$x = 23$$

$$23 \times 30 = 690 \text{ m}^2$$

What is the sum of the interior angles for a decagon?

10 sides

$$(n-2) \times 180$$

$$8 \times 180 = 1440^\circ$$

What is the size of each interior angle for a regular decagon?

$$144^\circ$$

Tim's pay increased by 5% to £868.30 a fortnight.

What was his pay before the increase?

$$105\% = 868.30$$

$$1\% = 8.26952\dots$$

$$100\% = \pounds 826.95$$