

What number is halfway between 20 and 30?

$$\underline{\underline{25}}$$

What number is halfway between 12 and 16?

$$\underline{\underline{14}}$$

What number is halfway between 5 and 8?

$$5 + 8 = 13$$

$$13 \div 2 = \underline{\underline{6.5}}$$

What number is halfway between 1.2 and 1.8?

$$1.2 + 1.8 = 3$$

$$3 \div 2 = \underline{\underline{1.5}}$$

What is 20% of 70

$$10\% = 7$$

$$20\% = \underline{\underline{14}}$$

10.....% of 60 = 6

5.....% of 60 = 3

If $x = 10$

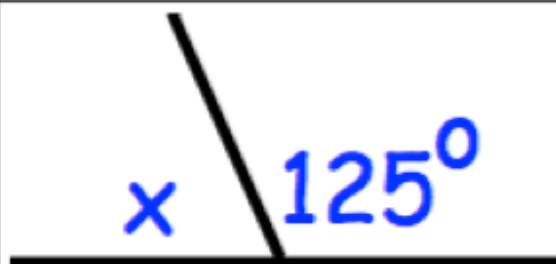
Work out $3x$

$$3 \times 10 = \underline{\underline{30}}$$

If $y = 7$

Work out $2y + 1$

$$2 \times 7 + 1 = \underline{\underline{15}}$$



$$\begin{array}{r} 7 \\ 180 \\ - 125 \\ \hline 055 \end{array} \quad \underline{\underline{55^\circ}}$$

February 29th

5-a-day

Foundation

Factorise $25y + 30$

$$5(5y + 6)$$

Factorise $a^3 + a$

$$a(a^2 + 1)$$

A woman was facing North.

She turned 90 degrees anticlockwise.

She then faced West

A woman was facing North.

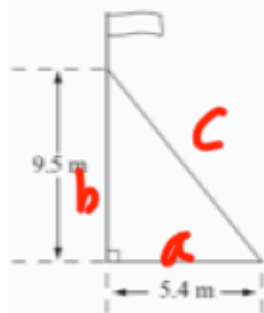
She turned 135 degrees anticlockwise.

She then faced South-West

$$\frac{3}{4} - \frac{5}{12}$$

$$\frac{9}{12} - \frac{5}{12} = \frac{4}{12}$$

$$= \frac{1}{3}$$



Calculate the length of the wire

$$a^2 + b^2 = c^2$$

$$5.4^2 + 9.5^2 = c^2$$

$$119.41 = c^2$$

$$c = \sqrt{119.41} = 10.93\text{m}$$

A cylinder has diameter 10cm and height 20cm

Work out its volume



Area of circle

$$\pi \times 5^2 = 78.539... \text{cm}^2$$

Volume

$$78.539... \times 20$$

$$= 1570.8 \text{cm}^3$$

Write 0.5555... as a fraction

$$x = 0.555 \dots$$

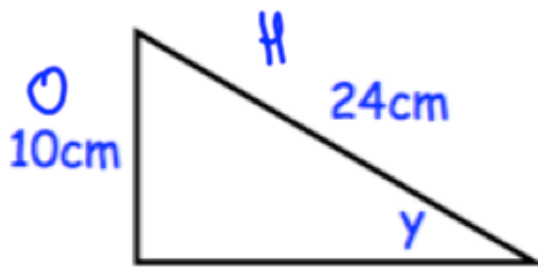
$$10x = 5.555 \dots$$

$$10x = 5.555 \dots$$

$$- \quad x = 0.555 \dots$$

$$9x = 5$$

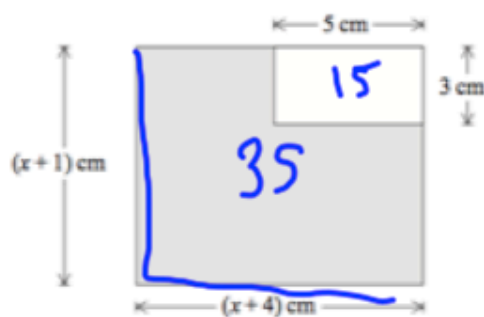
$$x = \frac{5}{9}$$

Calculate angle y in this right angled triangle.

$$\sin y = \frac{10}{24}$$

$$\sin y = 0.4166 \dots$$

$$y = 24.62^\circ$$

The area of the shaded shape is 35cm^2 Show that $x^2 + 5x - 46 = 0$

$$(x+1)(x+4) = 15 + 35$$

$$x^2 + 4x + x + 4 = 50$$

$$x^2 + 5x + 4 - 50 = 0$$

$$x^2 + 5x - 46 = 0$$

QED

Simplify $\sqrt{2} \times \sqrt{8}$

$$\sqrt{2} \times \sqrt{8} = \sqrt{16}$$

$$= 4$$

Simplify

$$\frac{2x^2 - 3x - 20}{x^2 - 16}$$

$$\frac{(2x+5)(x-4)}{(x-4)(x+4)}$$

$$\frac{2x+5}{x+4}$$