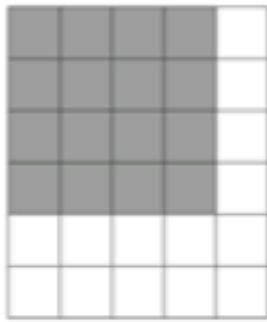


January 21st

5-a-day

Numeracy



$$\frac{16}{30} = \frac{8}{15}$$

What fraction of the shape is shaded?
Give your answer in its simplest form.



Name this shape:

pentagon



Name this shape:

heptagon

$$\text{COST} = \text{NUMBER OF DAYS} \times \text{£40} + \text{£50}$$

The formula above shows the cost of hiring a caravan.

Work out the cost for 5 days.

$$5 \times \text{£}40 = \text{£}200$$

$$\text{£}200 + \text{£}50 =$$

$$\text{£}250$$

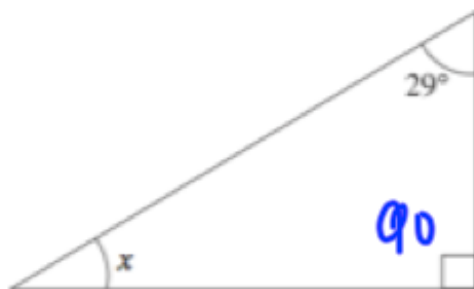
$$\frac{6}{12}$$

$$\frac{2}{8}$$

$$\frac{7}{21}$$

$$\frac{12}{20}$$

Circle any fraction equal a **third**.



Find the value of x

$$\begin{array}{r} 29 \\ + 90 \\ \hline 119 \end{array}$$

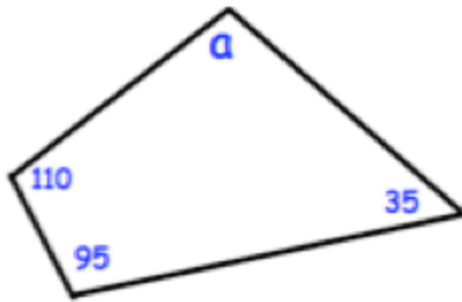
$$\begin{array}{r} 71 \\ 180 \\ - 119 \\ \hline 61 \end{array}$$

$$61^\circ$$

January 21

5-a-day

Foundation



Find a

$$\begin{array}{r} 110 \\ 95 \\ + 35 \\ \hline 240 \end{array}$$

$$\begin{array}{r} 360 \\ - 240 \\ \hline 120 \end{array}$$

Write 81 as a product of primes.
Give your answer in index form.



$$3 \times 3 \times 3 \times 3$$

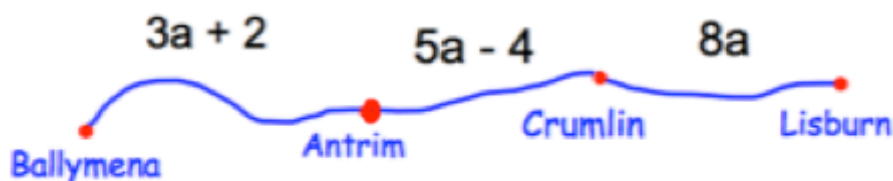
$$3^4$$

Simplify

$$x^2 + x^2 = 2x^2$$

Simplify

$$y^2 \times y^2 = y^4$$



$$13a - 4$$

Write an expression for the distance from Antrim to Lisburn

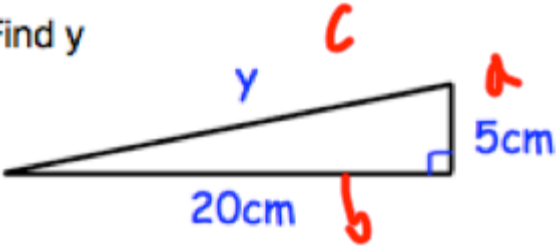
$$R = 8 - \sqrt{S}$$

Calculate S if $R = 3$

$$3 = 8 - \sqrt{S}$$

$$-\sqrt{S} = -5$$

$$S = \sqrt{S} \quad S = 25$$

January 21	5-a-day	Higher
<p>Mrs Griffiths buys a car for £1400. She sells it for £1850.</p> <p>Work out her percentage profit.</p>		$\frac{450}{1400} \times 100$
<p>Find y</p> 		$5^2 + 20^2 = y^2$ $425 = y^2$ $y = 20.616\text{cm}$
<p>Mary has a bag of 8 sweets. 6 are lemon and 2 are strawberry.</p> <p>Mary chooses two sweets at random.</p> <p>What is the probability she gets one sweet of each flavour?</p>		$\frac{6}{8} \times \frac{2}{7} = \frac{12}{56}$ $\frac{2}{8} \times \frac{6}{7} = \frac{12}{56}$ $\frac{24}{56} = \frac{12}{28}$ $\frac{6}{14} = \frac{3}{7}$
<p>Simplify $\sqrt{98}$</p>		<p>Write $\sqrt{200}$ in the form $a\sqrt{b}$</p>
<p>A is inversely proportional to B.</p> <p>If A = 10, B = 3.</p> <p>Find B when A = 15.</p>		$10 = \frac{k}{3} \quad k = 30$ $A = \frac{30}{B} \quad 15 = \frac{30}{B}$ $B = 2$