

April 2nd	5-a-day	Numeracy
Work out the area of a rectangle with length 8cm and width 3cm $8\text{cm} \times 3\text{cm}$ $= 24\text{cm}^2$	Work out the area of a triangle with base 8cm and height 6cm $\frac{1}{2}(8 \times 6)$ $= 24\text{cm}^2$	
384 + 124 508	Work out 43 x 28 1204	
Simplify $3x + 4x - x$ $6x$	Simplify $5w \times 3w$ $15w^2$	
Solve $4x - 3 = 29$ $4x = 32$ $x = 8$	If $x = 5$ Work out $3x + 9$ $15 + 9 = 24$	
3 7 2 8 10 a) Work out the range $10 - 2 = 8$ b) Work out the median 3 3 7 8 10 (7)	c) Work out the mean $\frac{3 + 7 + 2 + 8 + 10}{5} = 6$	

April 2nd

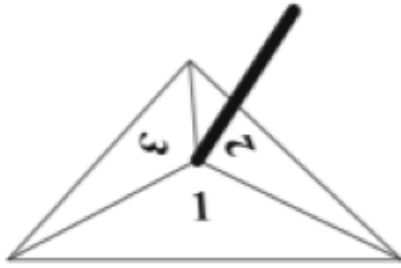
5-a-day

Foundation

$$A = 3w - 2y$$

Work out the value of A when $w = 5$
and $y = 6$

$$\begin{aligned} 3 \times 5 - 2 \times 6 \\ 15 - 12 \\ = 3 \end{aligned}$$



What is the probability of a 2?

All sections are the same size.

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

Expand $5(3w + 2)$

$$15w + 10$$

Expand and simplify

$$2(w + 3) + 3(w + 5)$$

$$\begin{aligned} 2w + 6 + 3w + 15 \\ 5w + 21 \end{aligned}$$

Factorise

$$10w - 15y$$

$$5(2w - 3y)$$

Write 80 as a product of primes



$$\begin{aligned} 2 \times 2 \times 2 \times 2 \times 5 \\ 2^4 \times 5 \end{aligned}$$

April 2

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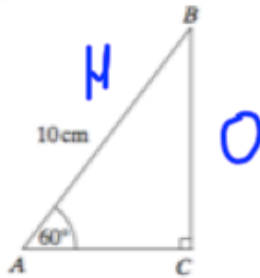
Higher

Work out, in standard form.

$$6 \times 10^3 \times 5 \times 10^8$$

$$30 \times 10^{11}$$

$$3 \times 10^{12}$$



Calculate the length of BC

$$\sin(60) \times 10$$

$$8.66 \text{ cm}$$

A savings account earns 10% a year.

£3000 is invested.

How much is in the account after 4 years?

$$3000 \times 1.1^4$$

$$= 4392.30$$

A is directly proportional to B squared.

When $A = 100$, $B = 2$

Find A when $B = 10$

$$A \propto B^2$$

$$A = k \times B^2$$

$$100 = k \times 4$$

$$k = 25$$

$$A = 25B^2$$

$$A = 25 \times 100$$

$$A = 2500$$

Simplify

$$\sqrt{200} + \sqrt{8}$$

$$10\sqrt{2} + 2\sqrt{2}$$

$$= 12\sqrt{2}$$