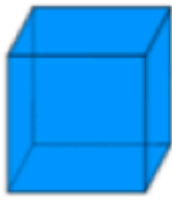


February 4th

5-a-day

Numeracy



How many Faces?

6

How many Edges?

12

How many Vertices?

8

$5 - 7 =$

-2

$-8 + 3 =$

-5

$9 + (-2) =$

7

$8 - (-3) =$

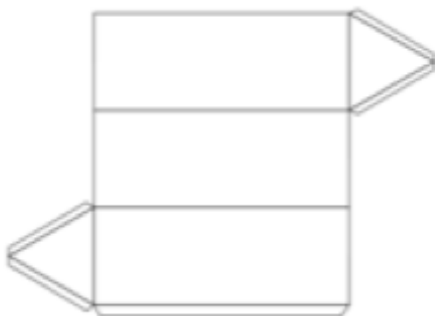
11

Two numbers multiply together to make -15

They add together to make 2

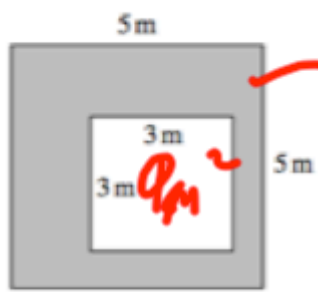
What are they?

5 and -3



Shown is a net for which solid?

triangular prism

February 4th	5-a-day	Foundation
<p>$ab^2 = 75$</p> <p>a and b are prime numbers.</p> <p>Find the values of a and b</p>	$ \begin{array}{r} 75 \\ \begin{array}{r} \swarrow \downarrow \\ (3) \quad 25 \\ \swarrow \downarrow \\ (5) \quad (5) \end{array} \end{array} $ $ \begin{array}{l} 3 \times 5 \times 5 \\ 3 \times 5^2 \end{array} $	
<p>Expand and simplify</p> <p>$(x + 5)(x + 3)$</p>	$x^2 + 8x + 15$	
<p>Calculate the shaded area</p> 	<p>What percentage of the shape is not shaded?</p> $ \frac{9}{25} = \frac{36}{100} $ <p>36%</p>	
<p>Work out 800×0.2</p>	<p>Work out $800 \div 0.2$</p>	
<p>Find the value of $6x + 3y$ if:</p> <p>$x = 10$ and $y = -4$</p>	48	

February 4

5-a-day

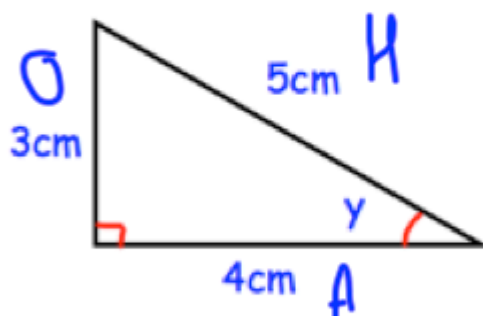
Higher

Write 0.000045 in standard form.

$$4.5 \times 10^{-5}$$

Write four million in standard form.

$$4 \times 10^6$$



Write down the value of Sin y.

$$\sin y = \frac{O}{H}$$

$$\frac{3}{5}$$

Write down the value of Cos y.

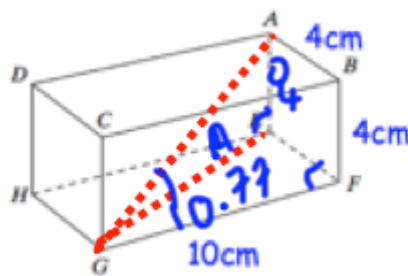
$$\cos y = \frac{A}{H}$$

$$\frac{4}{5}$$

Write down the value of Tan y.

$$\tan y = \frac{O}{A}$$

$$\frac{3}{4}$$



Work out the length of EG

$$4^2 + 10^2 = 116$$

$$\sqrt{116} = 10.77 \text{ cm}$$

Work out the size of angle AGE.

$$\tan(\text{AGE}) = \frac{4}{10.77}$$

$$\angle \text{AGE} = 20.375^\circ$$