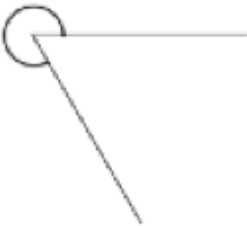



March 12th	5-a-day	Numeracy
	<p>What type of angle is shown?</p> <p>Reflex</p>	
 <p>A cinema ticket costs £4</p>	<p>How much more money is needed?</p> <p>£1.87</p> $\begin{array}{r} \text{£ } 4.00 \\ - \text{£ } 1.87 \\ \hline \text{£ } 2.13 \end{array}$	
<p>Given $26 \times 142 = 3692$</p> <p>What is 260×142?</p> <p>36920</p>	<p>What is 26×1.42?</p> <p>36.92</p>	
<p>Calculate 10^3</p> <p>$10 \times 10 \times 10$</p> <p>1000</p>	<p>Calculate $\sqrt{16}$</p> <p>4</p>	
<p>A bus holds 32 passengers.</p> <p>150 people want to go on a bus trip.</p> $\begin{array}{r} 32 \\ 64 \\ 96 \\ \hline 128 \\ 160 \end{array}$	<p>How many buses are needed?</p> <p>5</p> <p>How many empty seats will there be?</p> <p>10</p>	

March 12th

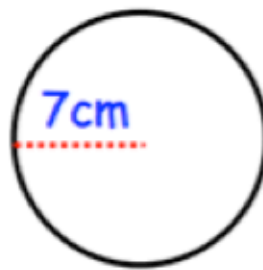
5-a-day

Foundation

Calculate the area

$$\pi \times 7^2$$

$$153.94 \text{ cm}^2$$



Factorise

$10y - 15$

$$5(2y - 3)$$

Expand

$4(3w + 1)$

$$12w + 4$$

Increase 4 million by 5%

$$4,000,000$$

$$10\% = 400,000$$

$$5\% = 200,000$$

$$4,200,000$$

Write 82 as a product of primes

$$82$$

$$\begin{array}{c} \textcircled{2} \textcircled{41} \\ 2 \times 41 \end{array}$$

Simplify

$$q^4 \div q^3$$

$$q^1 = q$$

Simplify

$$p^6 \times p^{-2} = p^4$$

March 12th

5-a-day

Higher

A straight line has gradient 4 and passes through (0,2).

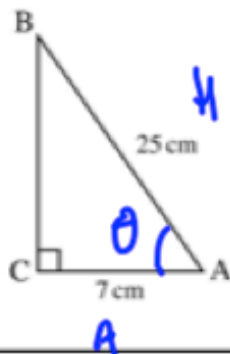
Write down its equation

$$y = 4x + 2$$

A line has equation $y = 3x + 1$

Write down the coordinates of any two points on the line.

$$\left(\frac{0}{\dots\dots\dots}, \frac{1}{\dots\dots\dots}\right) \left(\frac{1}{\dots\dots\dots}, \frac{4}{\dots\dots\dots}\right) \text{ etc}$$
$$(2, 7) \quad (3, 10) \text{ etc}$$



Calculate angle BAC

$$\cos \theta = \frac{7}{25}$$

$$\theta = 73.74^\circ$$

Solve

$$9x^2 + 29x - 28 = 0$$

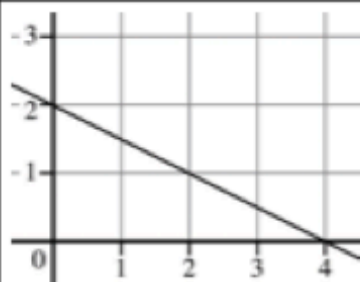
$$(9x - 7)(x + 4) = 0$$
$$x = \frac{7}{9} \quad x = -4$$

A mountain is losing 5% of its snow each year.

What percentage of its original will be left after 10 years?

$$100 \times 0.95^{10}$$

$$59.87\%$$



$$\text{grad} = -\frac{1}{2}$$

Write down the equation of a line perpendicular to this line that passes through (0,5)

$$\text{grad} = 2$$

$$y = 2x + 5$$