

January 19th	5-a-day	Numeracy
Work out 6^2 <div style="text-align: center; font-size: 2em; color: red;">36</div>	Work out $\sqrt{81}$ <div style="text-align: center; font-size: 2em; color: red;">9</div>	
Here is a list of numbers 15 17 27 36 54 21 39 (a) Write down a prime number <div style="text-align: center; font-size: 2em; color: red;">17</div>	(b) Write down a cube number <div style="text-align: center; font-size: 2em; color: red;">27</div>	
Work out $4.7 - 3.52$ <div style="text-align: center;"> $\begin{array}{r} 4.70 \\ - 3.52 \\ \hline 1.18 \end{array}$ </div>	<div style="text-align: center; font-size: 2em; color: blue;">1.18</div>	
Work out the value of 0.3×0.7 <div style="text-align: center; font-size: 2em; color: blue;">0.21</div>		
Find the value of 362×31 <div style="text-align: center;"> $\begin{array}{r} 362 \\ \times 31 \\ \hline 362 \\ 10860 \\ \hline 11222 \end{array}$ </div>	<div style="text-align: center; font-size: 2em; color: blue;">11222</div>	

What is the reciprocal of 4?

$$\frac{1}{4}$$

What is the reciprocal of 0.5?

$$2$$

Country	Frequency	
France	3	60°
Wales	4	80°
England	11	220°

$$18$$

Ricky is drawing a pie chart.

Work out the size of each angle.

$$360 \div 18 = 20^\circ$$

1.5 2 2.5 3 3.5

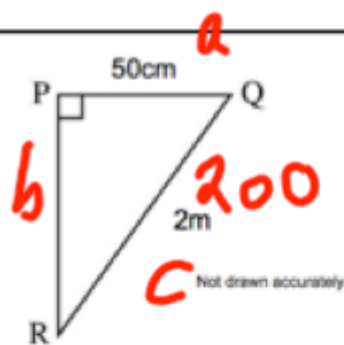
Work out the nth term

$$0.5n + 1$$

Work out the 20th term.

$$0.5 \times 20 + 1$$

$$11$$



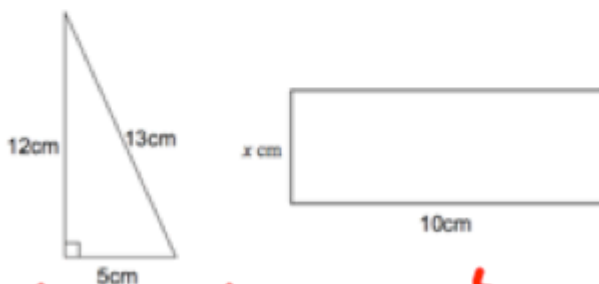
$$a^2 + b^2 = c^2$$

$$50^2 + PR^2 = 200^2$$

$$2500 + PR^2 = 40000$$

$$\sqrt{37500} = 193.6\text{cm}$$

Work out the length of PR.

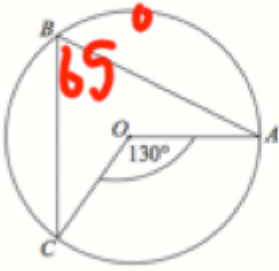
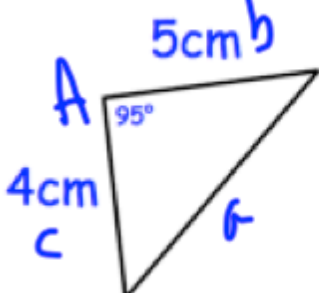


$$\frac{1}{2}(5 \times 12) = 30\text{cm}^2$$

The triangle and rectangle have the same area.

Find x.

$$x = 3$$

January 19	5-a-day	Higher												
<p>In May 1999, the population of a country was 720,000.</p> <p>In May 2009, the population was 770,000.</p> <p>Work out the percentage increase.</p>		$\frac{50,000}{720,000} \times 100$ 6.94%												
<p>Solve, to 1 decimal place.</p> $x^3 + 2x = 150$ 5.2	$x \quad x^3 + 2x$ <table border="0"> <tr><td>5</td><td>135</td><td>↓</td></tr> <tr><td>6</td><td>228</td><td>↑</td></tr> <tr><td>5.2</td><td>151.008</td><td>↑</td></tr> <tr><td>5.1</td><td>142.89</td><td>↓</td></tr> </table>	5	135	↓	6	228	↑	5.2	151.008	↑	5.1	142.89	↓	<p>Correct</p> <p>↓</p> <p>↑</p> <p>↑</p> <p>↓</p>
5	135	↓												
6	228	↑												
5.2	151.008	↑												
5.1	142.89	↓												
<p>Find angle ABC</p> 	<table border="0"> <tr><td>5.1</td><td>142.89</td><td>↓</td></tr> <tr><td>5.15</td><td>146.89</td><td>↓</td></tr> </table> <p>↓ ↓ ↑</p> <p>5.1 5.15 5.2</p>	5.1	142.89	↓	5.15	146.89	↓	<p>↓</p> <p>↑</p> <p>↓</p> <p>↓</p>						
5.1	142.89	↓												
5.15	146.89	↓												
<p>Calculate the missing side</p> $a^2 = b^2 + c^2 - 2bc \cos A$ $a^2 = 41 - 40 \cos 95$ $a^2 = 44.486 \dots$ $a = 6.67 \text{ cm}$														
<p>Calculate the area</p> $\frac{1}{2} \times 4 \times 5 \times \sin 95$ $10 \sin 95$		9.96 cm^2												