
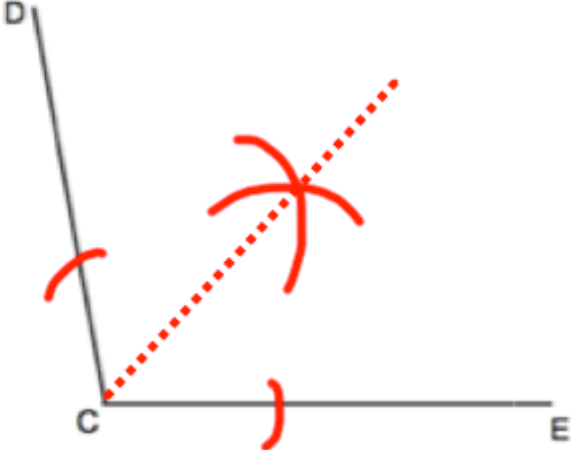

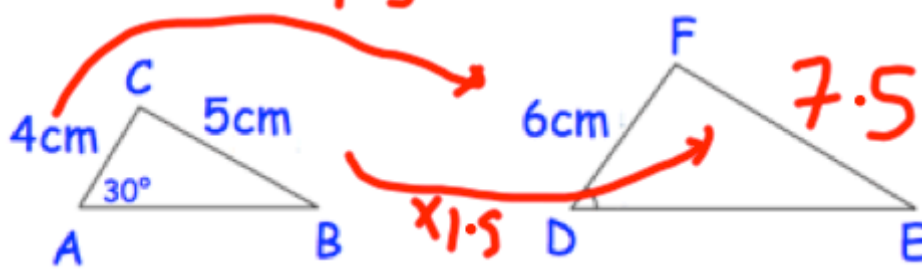


July 17th	5-a-day	Numeracy
<p>Write down the square of 6</p> <p style="text-align: center;">36</p>	<p>Write down the square root of 9</p> <p style="text-align: center;">3</p>	
	<p>This bottle holds 500 litres.</p> <p>What is 500 millilitres in litres?</p> <p style="text-align: center;">0.5L</p>	
<p>A shopkeeper buys a box of 10 pens for £4.</p> <p>He sells them for 65p each.</p> <p>What is his profit?</p>	<p>10 x 65p £6.50 - £4.00 ----- £2.50</p>	
<p>Write down all the factors of 10</p> <p style="text-align: center;">1 2 5 10</p> <p>5 8 5 12</p> <p>Calculate the mean</p> <p style="text-align: center;">5 + 5 + 8 + 12 = 30 30 ÷ 4 = 7.5</p>	<p>Write down all the multiples of 3 between 10 and 25</p> <p style="text-align: center;">12 15 18 21 24</p> <p>Calculate the range</p> <p style="text-align: center;">12 - 5 = 7</p> <p>Calculate the mode</p> <p style="text-align: center;">5</p>	

July 17	5-a-day	Foundation
<p>The nth term of a sequence is $n^2 - 1$</p> <p>Work out the first 5 terms</p>	$1^2 - 1 = 0$ $2^2 - 1 = 3$ $3^2 - 1 = 8$ $4^2 - 1 = 15$ $5^2 - 1 = 24$	
<p>Draw the locus of all points which are equidistant from lines CD and CE.</p> 		
$\frac{2}{7} \div 1 \frac{1}{3}$ $\frac{2}{7} \div \frac{4}{3}$	$\frac{2}{7} \times \frac{3}{4} = \frac{6}{28}$ $\frac{3}{14}$	
<p>Explain why regular pentagons do not tessellate.</p> $540 \div 5 = 108^\circ$ $360^\circ \div 108^\circ \text{ is not an integer}$		

July 17	5-a-day	Higher
<p>Simplify</p> $\frac{3a}{2} \times \frac{4}{5a}$	$\frac{\cancel{12a}}{\cancel{10a}} = \frac{6}{5}$	
 <p>Triangles ABC and DEF are similar.</p>		
<p>Find the length of EF</p> <p style="text-align: center;">7.5 cm</p>	<p>Find the size of angle EDF</p> <p style="text-align: center;">30°</p>	
<p>Solve</p> $\frac{2x+3}{4} + \frac{x-1}{2} = 1$ $\frac{2x+3}{4} + \frac{2x-2}{4} = 1$	$\frac{4x+1}{4} = 1$ $4x+1 = 4$ $4x = 3$ $x = 0.75$	
<p>Rationalise the denominator</p> $\frac{20}{\sqrt{5}} \times \frac{\sqrt{5}}{\sqrt{5}} = \frac{20\sqrt{5}}{5} = 4\sqrt{5}$		