

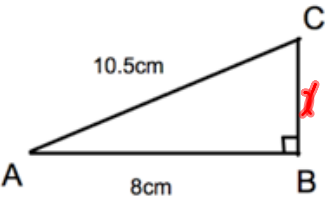
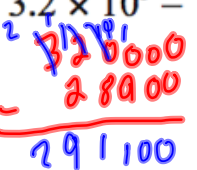
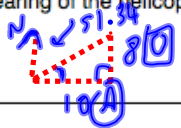
Name: \_\_\_\_\_

November 3rd	5-a-day	Numeracy
Jennifer is paid £9 an hour. Kate is paid £8 an hour.  On a Saturday, Jennifer works 5 hours and Kate works 6 hours.  Who earns more?	$J: 9 \times 5 = \pounds 45$ $K: 8 \times 6 = \pounds 48$  Kate.	
Write down the first five multiples of 8.	Write down all the factors of 50.	
8 16 24 32 40	1 2 5 10 25 50	
$\sqrt{25} + 5^2$ $5 + 25 = 30$	$2^5$ $2 \times 2 \times 2 \times 2 \times 2$  32	
A car park is open from 7am until 10pm.  200 cars enter the car park between 7am and 9am.  $\frac{1}{4}$ of these cars are red.	How many red cars enter the car park between 7am and 9am.  $200 \div 4 = 50$	
Another 63 cars enter the car park between 9am and 11am.  Nathanael says $\frac{1}{2}$ of these cars are red.  Explain why he is wrong.	$63 \div 2 = \underline{31.5}$ not possible.	

Name: \_\_\_\_\_

November 3	5-a-day	Foundation									
<p>Draw a frequency polygon for:</p> <table style="margin-left: 20px;"> <thead> <tr> <th>Age</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td><math>0 &lt; x \leq 10</math></td> <td>3</td> </tr> <tr> <td><math>10 &lt; x \leq 20</math></td> <td>8</td> </tr> <tr> <td><math>20 &lt; x \leq 30</math></td> <td>6</td> </tr> <tr> <td><math>30 &lt; x \leq 40</math></td> <td>4</td> </tr> </tbody> </table>	Age	Frequency	$0 < x \leq 10$	3	$10 < x \leq 20$	8	$20 < x \leq 30$	6	$30 < x \leq 40$	4	
Age	Frequency										
$0 < x \leq 10$	3										
$10 < x \leq 20$	8										
$20 < x \leq 30$	6										
$30 < x \leq 40$	4										
<p>Write down the modal interval.</p> <p style="color: red; font-size: 1.2em; margin-left: 40px;"><math>10 &lt; x \leq 20</math></p>	<p>Translate triangle <b>A</b> by <math>\begin{pmatrix} -8 \\ 4 \end{pmatrix}</math> <span style="color: red;">3 left</span> <span style="color: red;">4 up</span></p> <p>Label the image <b>C</b>.</p>										

Name: \_\_\_\_\_

November 3	5-a-day	Higher
	<p>Find the length BC</p> $8^2 + x^2 = 10.5^2$ $64 + x^2 = 110.25$ $x^2 = 46.25$ $x = 6.8 \text{ cm}$	
$3.2 \times 10^5 - 2.89 \times 10^4$ 	$291100$ <p>or</p> $2.911 \times 10^5$	
<p>Solve</p> $x^2 + 5x - 14 = 0$	$(x+7)(x-2) = 0$ $x = -7 \text{ or } x = 2$	
<p>Solve the simultaneous equations</p> $4x + 3y = 5$ $2x - 5y = 9$ $20x + 15y = 25$ $6x - 15y = 27$ <p style="text-align: right;"><u>Add</u></p>	$26x = 52$ $x = 2$ $4 - 5y = 9$ $-5y = 5$ <div style="border: 1px solid red; padding: 5px; display: inline-block;"> <math display="block">y = -1, x = 2</math> </div>	
<p>A helicopter leaves Bristol and flies due east for 10 miles. Then the helicopter flies 8 miles north before landing.</p> <p>Calculate the bearing of the helicopter from Bristol.</p> 	$\tan x = \frac{8}{10}$ $x = 38.66$ $90 - 38.66 = 51.34$ <div style="border: 1px solid blue; padding: 5px; display: inline-block;"> <math display="block">051^\circ</math> </div>	