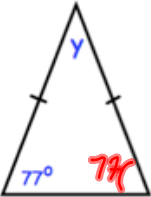
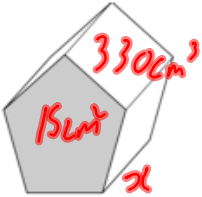


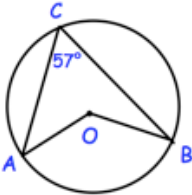
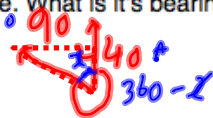
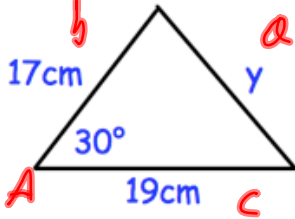
Name: _____

October 26th	5-a-day	Numeracy																				
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin: 5px;">30</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">20</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">10</div> </div> <p style="text-align: center; color: red;">or others</p>	<p>The three numbers on the cards have a sum of 60.</p> <p>Write the numbers on the cards.</p>																					
<p style="text-align: center; color: blue;">y</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p style="color: blue;">Area 65cm^2</p> </div> <p style="text-align: right; color: blue;">5cm</p>	<p>Find y</p> <p style="color: red; font-size: 1.2em;">$65 \div 5 = 13\text{cm}$</p>																					
<p>Find y</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> $\begin{array}{r} 77 \\ +177 \\ \hline 154 \end{array}$ </div> <div style="text-align: center;"> $\begin{array}{r} 180 \\ -154 \\ \hline 26 \end{array}$ </div> </div>	 <p style="color: red; font-size: 1.2em; margin-left: 20px;">26°</p>																					
<p>Serves 4</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Chopped tomatoes</td> <td style="text-align: right;">400g</td> </tr> <tr> <td>Garlic</td> <td style="text-align: right;">1 clove</td> </tr> <tr> <td>Minced beef</td> <td style="text-align: right;">350g</td> </tr> <tr> <td>...</td> <td></td> </tr> <tr> <td>...</td> <td></td> </tr> </table>	Chopped tomatoes	400g	Garlic	1 clove	Minced beef	350g		<p>Serves 8</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Chopped tomatoes</td> <td style="text-align: right; color: red;">800g</td> </tr> <tr> <td>Garlic</td> <td style="text-align: right; color: red;">2 cloves</td> </tr> <tr> <td>Minced beef</td> <td style="text-align: right; color: red;">700g</td> </tr> <tr> <td>...</td> <td></td> </tr> <tr> <td>...</td> <td></td> </tr> </table>	Chopped tomatoes	800g	Garlic	2 cloves	Minced beef	700g		
Chopped tomatoes	400g																					
Garlic	1 clove																					
Minced beef	350g																					
...																						
...																						
Chopped tomatoes	800g																					
Garlic	2 cloves																					
Minced beef	700g																					
...																						
...																						
<p>Michael wins £200 in a competition.</p> <p>He gives 30% of the money to his aunt. $10\% = 20$ $30\% = 60$</p> <p>He gives $\frac{1}{5}$ of the money to his brother. $200 \div 5 = 40$</p>	<p>How much money does Michael have left?</p> <p style="color: red; font-size: 1.2em;">$10 + 40 = 100$</p> <p style="color: red; font-size: 1.2em;">$\pounds 200 - \pounds 100 = \pounds 100$</p>																					

Name: _____

October 26	5-a-day	Foundation
Round 0.048 to 1 significant figure 0.05	Round 8194 to 2 significant figures 8200	
Estimate $401.2 \div 7.98$ $400 \div 8 = 50$		
$\frac{4}{7} \times \frac{1}{2} = \frac{4}{14} = \frac{2}{7}$		
 $330 \div 15 = 22$	The area of the cross-section is 15cm^2 The volume is 330cm^3 How long is the prism? 22cm	
Before training: 50kg After training: 60kg What is the percentage increase? $\frac{\text{change}}{\text{original}} \times 100$		$\frac{10}{50} \times 100 = 20\%$

Name: _____

October 26	5-a-day	Higher
	<p>O is the centre of the circle.</p> <p>Find the size of angle AOB.</p> <p style="color: red; font-size: 1.5em;">114°</p>	
<p>Find the size of each interior angle of a regular 40-sided polygon.</p> <p style="color: red; font-size: 1.5em;">exterior $360 \div 40 = 9^\circ$</p>	<p style="color: red; font-size: 1.5em;">Interior = 171°</p>	
<p>A helicopter flies 90 miles East and 40 miles South and lands. The helicopter flies back on a direct course. What is its bearing?</p> 	<p style="color: blue; font-size: 1.5em;">$\tan x = \frac{40}{90}$ $x = 66.04^\circ$</p> <p style="color: blue; font-size: 1.5em;">$360 - 66.04^\circ$</p> <p style="color: blue; font-size: 1.5em;">294° (293.96°)</p>	
<p>Find the equation of the line perpendicular to $y = \frac{1}{2}x - 3$ that passes through $(0, 4)$</p> <p style="color: blue; font-size: 1.5em;">$m = -2$</p>	<p style="color: blue; font-size: 1.5em;">$y = -2x + 4$</p>	
	<p>Find y.</p> <p style="color: red; font-size: 1.5em;">$a^2 = b^2 + c^2 - 2bc \cos A$</p> <p style="color: blue; font-size: 1.5em;">$a^2 = 17^2 + 19^2 - 2(17)(19) \cos 30$</p> <p style="color: blue; font-size: 1.5em;">$a^2 = 650 - 646 \cos 30$</p> <p style="color: blue; font-size: 1.5em;">$a^2 = 90.542$</p> <p style="color: blue; font-size: 1.5em;">$y = 9.516 \text{ cm}$</p>	