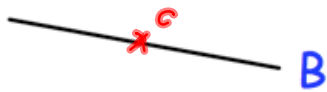
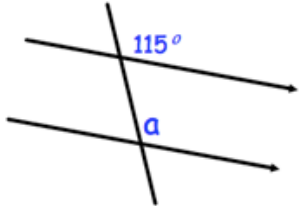


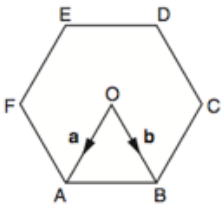
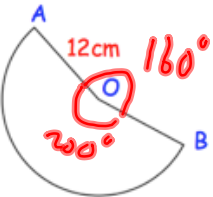
Name: _____

October 31st	5-a-day	Numeracy															
<p>A town was founded in 1675. <i>current year (2014)</i> How many years old is the town?</p> $\begin{array}{r} 2014 \\ -1675 \\ \hline 0339 \end{array}$ <p><i>339 years old</i></p>	<p>What is the value of the 6 in 1675.</p> <p><i>600</i></p>																
<p><i>A</i>  <i>B</i></p> <p><i>depends on the size printed</i> Measure the length of the line AB.</p>	<p>Mark with an X, the point C which is the midpoint of AB.</p>																
<p>A blue light flashes every 6 seconds. A green light flashes every 8 seconds.</p> <p>After how many seconds will they both flash at the same time?</p>	<p><i>24 seconds</i></p>																
<table border="1" data-bbox="228 1161 609 1297"> <thead> <tr> <th>Transport</th> <th>Tally</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>Walk</td> <td> </td> <td><i>7</i></td> </tr> <tr> <td>Cycle</td> <td> </td> <td><i>3</i></td> </tr> <tr> <td>Bus</td> <td> </td> <td><i>12</i></td> </tr> <tr> <td>Car</td> <td> </td> <td><i>10</i></td> </tr> </tbody> </table> <p>Complete the tally chart.</p>	Transport	Tally	Frequency	Walk		<i>7</i>	Cycle		<i>3</i>	Bus		<i>12</i>	Car		<i>10</i>	<p>How many students are in the class?</p> $\begin{array}{r} 7 \\ 3 \\ 12 \\ +10 \\ \hline 32 \end{array}$	
Transport	Tally	Frequency															
Walk		<i>7</i>															
Cycle		<i>3</i>															
Bus		<i>12</i>															
Car		<i>10</i>															
<p>What fraction of the students cycle to school?</p> <p><i>$\frac{3}{32}$</i></p>																	

Name: _____

October 31	5-a-day	Foundation
	Size of a? 115° Reason? <i>corresponding angles</i>	
Draw a stem and leaf for: 19 31 15 28 27 30 36 41 8 25 40 23 46 48 34	$\begin{array}{c ccc} 1 & 5 & 8 & 9 \\ 2 & 3 & 5 & 7 & 8 \\ 3 & 0 & 1 & 4 & 6 \\ 4 & 0 & 1 & 6 & 8 \end{array}$	
The length of a farm building is 9.1m A plan of the farm is drawn using the scale 1:70 How long will the building be on the plan?	$910\text{cm} \div 70$ 13cm	
Solve $3 + 7y < -4$ $-3 \quad -3$ $7y < -7$	$y < -1$	
Expand and simplify $7(3x + 1) + 2(x - 5)$ $21x + 7 + 2x - 10$	$23x - 3$	

Name: _____

October 31	5-a-day	Higher
<p>In June 2011, the population of a country was 23 million. By June 2012, the population had increased by 4%.</p> <p>Work out the population in June 2012.</p>		23000000×1.04 $= 23920000$
<p>A is inversely proportional to B cubed.</p> <p>When A = 250, B = 5.</p> <p>Find A when B = 3.</p>	$A \propto \frac{1}{B^3}$ $A = \frac{k}{B^3}$	$250 = \frac{k}{5^3} \quad A = \frac{31250}{B^3}$ $250 = \frac{k}{125} \quad A = \frac{31250}{3^3}$ $k = 31250 \quad A = 1157.407$
 <p>$\vec{OC} = \vec{AB}$ $\vec{AB} = -\vec{a} + \vec{b}$</p>	<p>Find in terms of a and b</p> <p>OC $-\underline{a} + \underline{b}$</p> <p>FC $-2\underline{a} + 2\underline{b}$</p>	
<p>Simplify fully</p> $\frac{v+3}{15} \div \frac{v^2+3v}{25}$		$\frac{v+3}{15} \times \frac{25}{v^2+3v} = \frac{25(v+3)}{15(v^2+3v)}$ $\frac{25(v+3)}{15v(v+3)} = \frac{5}{3v}$
 <p>12cm 160° 20cm</p>	<p>Angle AOB is 160°. Calculate the perimeter of the sector shown.</p>	<p>ASL</p> $\frac{200}{360} \times \pi \times 24 = 41.888 \text{ cm}$ <p>Perimeter $41.888 + 24 = 65.888 \text{ cm}$</p>