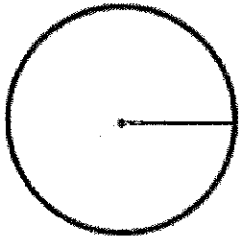
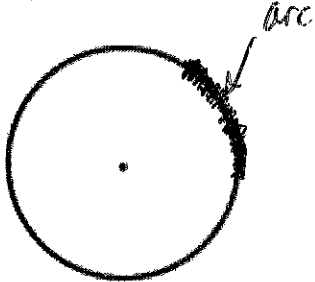
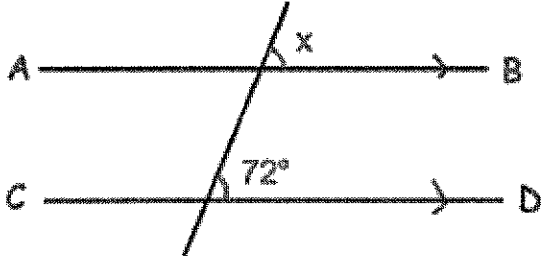
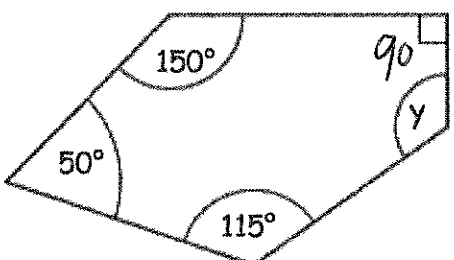


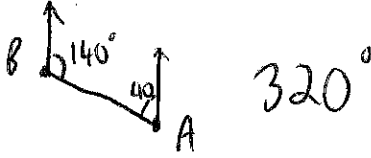
Name: \_\_\_\_\_

December 28th	5-a-day	Numeracy									
<p>383 x 8</p> <p style="text-align: center;">3064</p>	<p>393 ÷ 3</p> <p style="text-align: center;">131</p>										
<p>Draw a radius on the circle.</p> 	<p>Draw an arc on the circle.</p> 										
<p>Work out 25% of 32</p> <p style="text-align: center;">8</p>	<p>Work out 75% of 32.</p> <p style="text-align: center;">24</p>										
<p>Put the names of these quadrilaterals into the correct boxes.</p> <p>Square, parallelogram, kite and rhombus.</p> <table border="1" data-bbox="220 1512 1157 1944"> <thead> <tr> <th></th> <th>Line Symmetry</th> <th>No Line Symmetry</th> </tr> </thead> <tbody> <tr> <th>Two pairs of parallel lines</th> <td>Rhombus Square</td> <td>Parallelogram</td> </tr> <tr> <th>No parallel lines</th> <td>kite</td> <td></td> </tr> </tbody> </table>				Line Symmetry	No Line Symmetry	Two pairs of parallel lines	Rhombus Square	Parallelogram	No parallel lines	kite	
	Line Symmetry	No Line Symmetry									
Two pairs of parallel lines	Rhombus Square	Parallelogram									
No parallel lines	kite										

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

December 28	5-a-day	Foundation
<p>Solve</p> $\frac{W}{3} = 9$ $W = 27$	<p>Solve</p> $3W + 20 = 9W - 10$ $20 = 6W - 10$ $30 = 6W$ $W = 5$	
<p>Factorise</p> $8x + 14$ $2(4x + 7)$	<p>Factorise</p> $x^2 + 8x$ $x(x + 8)$	
	<p>Work out the size of x</p> $72^\circ$ <p>Give a reason for your answer.</p> <p><i>Corresponding angles</i></p>	
<p>James leaves £4000 in the bank for two years.</p> <p>It earns compound interest of 5% per year.</p> <p>Calculate the total amount in the bank at the end of two years.</p>	$1 \text{ year} : \pounds 4200$ $2 \text{ years} : \pounds 4410$	
<p>Find y.</p> 	$\begin{array}{r} 150 \\ 90 \\ 50 \\ 115 \\ \hline 405 \end{array}$ $\begin{array}{r} 540 \\ 405 \\ \hline 135^\circ \\ \hline \end{array}$	

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

December 28	5-a-day	Higher
<p>The rope on a roll is <math>4\frac{1}{2}</math> m long.</p> <p>Jenny wants 20 pieces of rope <math>\frac{5}{8}</math> m long.</p> <p>How many rolls of rope are needed?</p>		$20 \times \frac{5}{8} = \frac{100}{8} = \frac{25}{2}$ $\frac{25}{2} \div \frac{5}{8}$ $\frac{25}{2} \times \frac{8}{5} = \frac{25}{1} = 2\frac{7}{9}$ <p style="text-align: center;">3 rolls</p>
<p>£400 is invested. The investment pays 10% every year.</p> <p>How much money will there be after 3 years?</p>		$400 \times 1.1^3$ $£ 532.40$
<p>Solve</p> $x^2 + 10x + 21 = 0$		$(x+7)(x+3) = 0$ $x = -7 \text{ or } x = -3$
<p>The bearing of A from B is <math>140^\circ</math></p> <p>What is the bearing of B from A?</p> 		$x^2 + 3x\left(\frac{3}{2} - \frac{1}{2}x\right) = 10$ $x^2 + \frac{9x}{2} - \frac{3}{2}x^2 = 10$ $-\frac{1}{2}x^2 + \frac{9}{2}x = 10 \quad \times 2$ $-x^2 + 9x = 20$ $x^2 - 9x + 20 = 0$ $(x-4)(x-5) = 0$ $x = 4 \text{ or } x = 5$ $y = -\frac{1}{2} \text{ or } y = -1$
<p>Solve:</p> $x + 2y = 3$ $x^2 + 3xy = 10$		