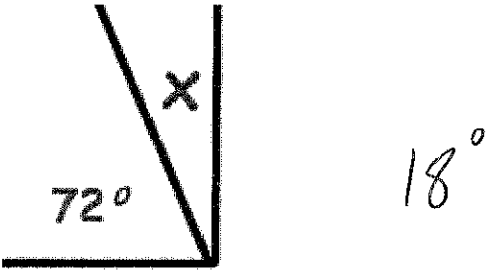
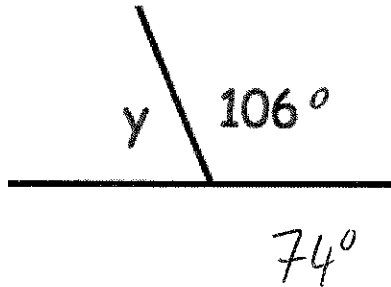
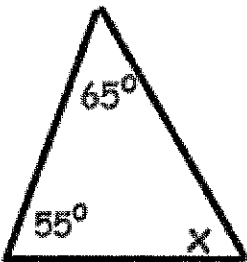



Name: _____

August 12th	5-a-day	Numeracy																
<p>Round 272 to the nearest 10</p> <p style="text-align: center;">270</p>	<p>Round 272 to the nearest 100</p> <p style="text-align: center;">300</p>																	
																		
<p>Write 15% as a decimal</p> <p style="text-align: center;">0.15</p>	<p>Write 0.8 as a percentage</p> <p style="text-align: center;">80%</p>																	
<p>A win is worth 3 points. A draw is worth 1 point. A loss is worth -1 point.</p> <p>How many points do Sunderland City have?</p>	<table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Wins</th> <th>Draws</th> <th>Losses</th> </tr> </thead> <tbody> <tr> <td>Sunderland City</td> <td>6</td> <td>5</td> <td>3</td> </tr> <tr> <td></td> <td>$6 \times 3 = 18$</td> <td>$5 \times 1 = 5$</td> <td>$3 \times -1 = -3$</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="border-top: 1px solid black;">20</td> </tr> </tbody> </table>		Wins	Draws	Losses	Sunderland City	6	5	3		$6 \times 3 = 18$	$5 \times 1 = 5$	$3 \times -1 = -3$				20	
	Wins	Draws	Losses															
Sunderland City	6	5	3															
	$6 \times 3 = 18$	$5 \times 1 = 5$	$3 \times -1 = -3$															
			20															
	<p>Find x</p> <p>$55 + 65 = 120^\circ$</p> <p>$180 - 120 = \underline{60^\circ}$</p>																	

Name: _____

August 12	5-a-day	Foundation																		
<p>Henry buys a car that costs £8000.</p> <p>He pays a 20% deposit and pays the rest of the money over 20 monthly payments.</p> <p>How much is each payment?</p>		$10\% = 800$ $20\% = 1600$ $8000 - 1600 = 6400$ $6400 \div 20 = \underline{\underline{£320}}$																		
<table border="1"> <thead> <tr> <th>Country</th> <th>Frequency</th> <th></th> </tr> </thead> <tbody> <tr> <td>England</td> <td>5</td> <td>50°</td> </tr> <tr> <td>Ireland</td> <td>15</td> <td>150°</td> </tr> <tr> <td>Scotland</td> <td>10</td> <td>100°</td> </tr> <tr> <td>Wales</td> <td>6</td> <td>60°</td> </tr> <tr> <td></td> <td><u>36</u></td> <td></td> </tr> </tbody> </table>	Country	Frequency		England	5	50°	Ireland	15	150°	Scotland	10	100°	Wales	6	60°		<u>36</u>			<p>Ivan wants to draw a pie chart.</p> <p>Work out the size of each angle.</p> $360 \div 36 = 10$
Country	Frequency																			
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<p>Work out $1.2 \div 100$</p> 0.012																				
<div style="text-align: center;"> $2x + 9$ </div>  <div style="text-align: center;"> $4x + 1$ 17 </div>		<p>Explain why $4x + 1 = 2x + 9$</p> <p>The opposite sides of a rectangle have equal length.</p>																		
<p>Solve $4x + 1 = 2x + 9$</p> $2x + 1 = 9$ $2x = 8$ $x = 4$		<p>Find the area of the rectangle.</p> $17 \times 4 = 68 \text{ cm}^2$																		

Name: _____

August 12

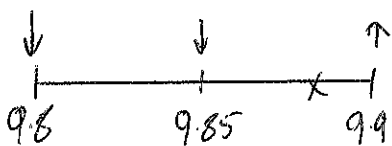
5-a-day

Higher

Use trial and improvement to solve

$$x^2 - 3x = 68$$

to one decimal place.



x	$x^2 - 3x$	Comment
9	54	too low
10	70	too high
9.7	64.99	too low
9.8	66.64	too low
9.9	68.31	too high
9.85		

9.9

What is the size of each exterior angle of a regular hexagon?

$$360 \div 6 = \underline{\underline{60^\circ}}$$

What is the size of each interior angle of a regular nonagon?

$$360 \div 9 = 40^\circ$$

$$180 - 40 = \underline{\underline{140^\circ}}$$

Work out the gradient of the straight line that passes through (2, 6) and (6, 12).



$$\frac{6}{4} = \frac{3}{2} \text{ or } 1.5$$

Number of goals	0	1	2	3
Probability	0.4	0.3	0.2	0.1

What is the probability David scores 5 or more goals in two consecutive games?

$$P(23) = 0.2 \times 0.1 = 0.02$$

$$P(32) = 0.1 \times 0.2 = 0.02$$

$$P(33) = 0.1 \times 0.1 = 0.01$$

$$\underline{\quad\quad\quad}$$

$$0.05$$