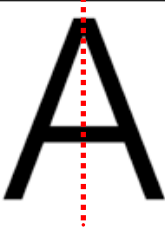
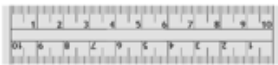

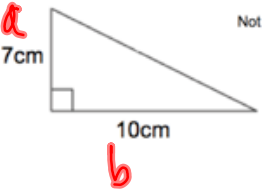
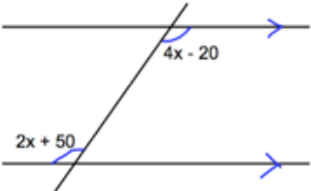


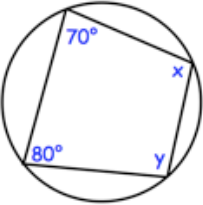

Name: \_\_\_\_\_

September 6th	5-a-day	Numeracy
384 of 591 students are girls. How many are boys?  $207$		
Write 7:30am in 24-hour time  $07:30$	Write 7:30pm in 24-hour time  $19:30$	
	Draw all lines of symmetry on the letter A.	
 Convert 2 metres into centimetres  $200\text{ cm}$	Convert 2 metres into millimetres  $2000\text{ mm}$	
Work out two-thirds of 144.  $144 \div 3 = 48$ $48 \times 2 = 96$		$96$

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

September 6	5-a-day	Foundation
<p>In a sale, all prices are reduced by 35%.</p> <p>If the normal price of a TV is £240, work out the sale price.</p>		<p>£156</p>
<p>Write 60 as a product of primes.</p>	<p>60 = 2 × 2 × 3 × 5</p> <p>60 = 2<sup>2</sup> × 3 × 5</p>	
<p>A plane travels due south.</p> <p>On what bearing is it traveling?</p>	<p>A plane travels west.</p> <p>On what bearing is it traveling?</p>	<p>180°</p> <p>270°</p>
<p>Find the length of the missing side</p>	 <p>Not drawn accurately</p>	<p><math>a^2 + b^2 = c^2</math></p> <p><math>7^2 + 10^2 = c^2</math></p> <p><math>149 = c^2</math></p> <p><math>c = 12.2\text{cm}</math></p>
	<p>Find the size of the angle <math>4x - 20</math></p>	<p><math>4x - 20 = 2x + 50</math></p> <p><math>2x = 70</math></p> <p><math>x = 35</math></p> <p><math>4 \times 35 - 20 = 120^\circ</math></p>

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

September 6	5-a-day	Higher
Solve $5x^2 = 180$ $x^2 = 36$ $x = 6$		
	Find x and y $x = 100^\circ$ $y = 110^\circ$	
Find the area of the sector. 	$\frac{45}{360} \times \pi \times 8^2$ $25.13 \text{ cm}^2$	
Solve these simultaneous equations $3x - 4y = 18$ $\times 2$ $2x - 5y = 19$ $\times 3$	$6x - 8y = 36$ $6x - 15y = 57$ sub <hr/> $7y = -21$ $y = -3$ $x = 2$	
w is inversely proportional to c squared. When $w = 400$ , $c = 2$ . Find w when $c = 4$ .	$w \propto \frac{1}{c^2}$ $w = \frac{k}{c^2}$ $400 = \frac{k}{4}$ $k = 1600$ $w = \frac{1600}{16} = 100$	$w = \frac{1600}{c^2}$