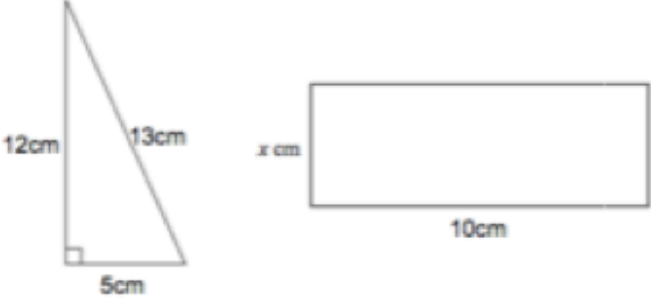
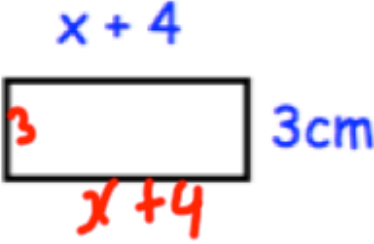
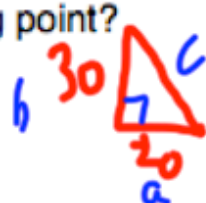
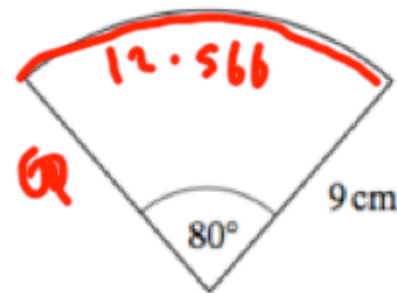
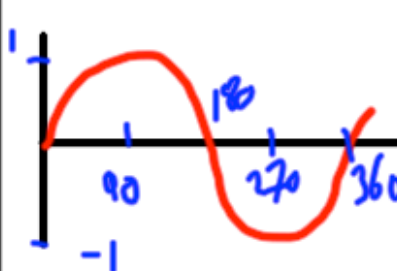
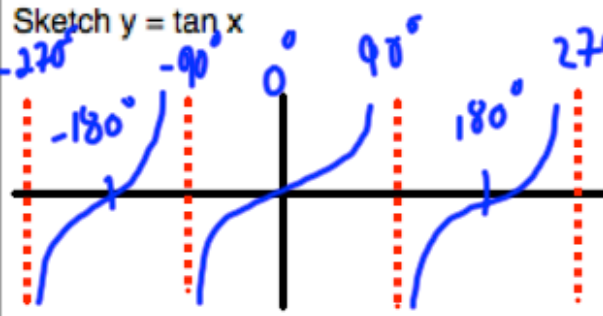
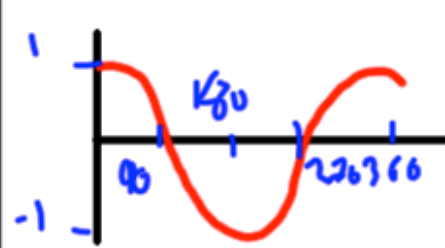


June 18th	5-a-day	Numeracy
<p>Give an event where you think the probability is impossible.</p> <p>Rolling a 7 on a standard dice.</p>		
<p>Using the digits 5, 8 and 9 only once in each number:</p> <p>Write the largest possible number</p> <p>985</p>	<p>Write the smallest possible even number</p> <p>598</p>	
<p>7 7 7 8 2 8 7 7 5</p> <p>Find the mode 7</p> <p>Find the range <math>8 - 2 = 6</math></p>	<p>Find the median</p> <p><del>2 5 7 7 7 7 7 8 8</del></p> <p>7</p>	
<p>Expand <math>5(a + c)</math></p> <p><math>5a + 5c</math></p>	<p>Expand <math>10(x + 4)</math></p> <p><math>10x + 40</math></p>	
<p>Calculate <math>2 + \frac{3}{4}</math></p> <p>Write your answer as a decimal.</p> <p>2.75</p>	<p>Write your answer to one decimal place</p> <p>2.8</p>	

June 18	5-a-day	Foundation
<p>Factorise</p> <p><math>9w + 15y</math></p>	$3(3w + 5y)$	
<p>Expand and simplify</p> <p><math>(y + 3)(y + 5)</math></p>	$y^2 + 8y + 15$	
		
<p>Calculate the area of the triangle.</p> $\frac{1}{2}(5) \times (12) = 30\text{cm}^2$	<p>The area of the triangle and rectangle are the same.</p> <p>Find x.</p> $30\text{cm}$	
	<p>The perimeter of the rectangle is 24cm.</p> <p>Find x.</p> $2x + 14 = 24$ $2x = 10$ $x = 5$	

June 18	5-a-day	Higher
<p>Factorise <math>3x + 9</math></p> <p style="text-align: center;"><math>3(x+3)</math></p>		
<p>A plane travels 20 miles West and then 30 miles North. How far, in a direct line, is the plane from its starting point?</p> 	$a^2 + b^2 = c^2$ $20^2 + 30^2 = c^2$ $c^2 = 1300$ $c = 36.06 \text{ miles}$	
	<p>Calculate the perimeter of the sector.</p> $\frac{80}{360} \times \pi \times 18 = 12.566 \text{ cm}$ $12.566 + 9 + 9 = 30.566 \text{ cm}$	
<p>Sketch <math>y = \sin x</math></p> 	<p>Sketch <math>y = \tan x</math></p> 	
<p>Sketch <math>y = \cos x</math></p> 	<p>Sketch <math>y = 1/x</math></p> 