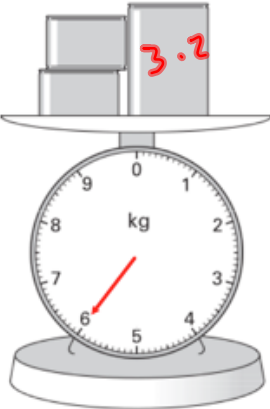
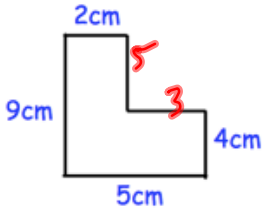
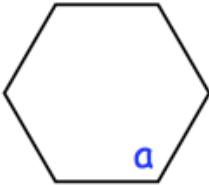
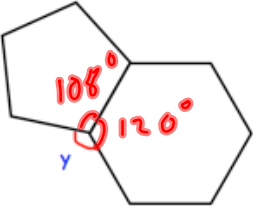


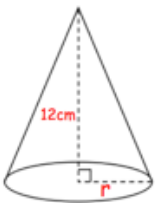
Name: _____

September 20th	5-a-day	Numeracy
8^2 64	$\sqrt{49}$ 7	
Write down all the prime numbers between 20 and 30 23 29	Write the first square number which is greater than 1 4	
	The two small containers have the same mass. The big container has a mass of 3.2kg. What is the mass of one small container?	
Simplify $5y + 2 + 3y$ $8y + 2$	Simplify $w + 1 + w + 5$ $2w + 6$	

Name: _____

September 20	5-a-day	Foundation
$\frac{7}{11} + \frac{2}{3}$	$\frac{21}{33} + \frac{22}{33}$ $\frac{43}{33} \quad 1\frac{10}{33}$	
	Calculate the perimeter 28cm	
	Shown is a regular hexagon. Find the size of the angle marked a. 120°	
	Shown is a regular hexagon and a regular pentagon. Find the size of the angle marked y. 228° 132°	
The nth term of a sequence is $n^2 - 1$ Work out the first 5 terms $0, 3, 8, 15, 24$		

Name: _____

September 20	5-a-day	Higher
<p>In a sale, all prices are decreased by 15%.</p> <p>In the sale, a TV costs £323.</p> <p>Work out the normal price of the TV.</p>	$85\% = 323$ $100\% = \underline{380}$	
<p>Factorise</p> $x^2 + 8x + 15$ $(x+3)(x+5)$	<p>Factorise</p> $x^2 - 11x + 10$ $(x-1)(x-10)$	
<p>Solve $x^2 + 5x - 14 = 0$</p> $(x+7)(x-2) = 0$ $x = -7 \quad x = 2$		
<p>Expand $(8 - \sqrt{3})^2$</p> $(8-\sqrt{3})(8-\sqrt{3})$ $64 - 8\sqrt{3} - 8\sqrt{3} + 3$	$67 - 16\sqrt{3}$	
 <p>The diagram shows a cone with a vertical dashed line representing its height, labeled '12cm'. A horizontal dashed line from the center of the base to the edge represents the radius, labeled 'r'. A right-angle symbol is shown at the base of the height line.</p>	<p>The volume of the cone is 400cm^3 Find r.</p> $\frac{1}{3}(\pi \times r^2) \times 12 = 400$ $4(\pi \times r^2) = 400$ $\pi r^2 = 100$ $r = 5.64 \text{ cm}$	