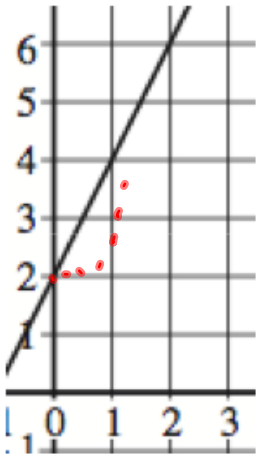
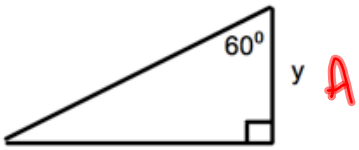
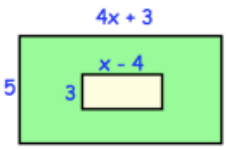
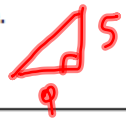
Name: _____

October 27th	5-a-day	Numeracy
39 x 10 390		940 x 100 94000
4 5 5 5 6 6 7 8 9 9 Find the range. 9-4=5		Write down the mode. 5 Find the median. 6
3^4 3x3x3x3 =81		
1·5 → +3 → 4.5		12 → x2 → ÷3 → 8 24
The input is the same as the output. Find the input.		4 → x3 → -8 → 4

Name: _____

October 27	5-a-day	Foundation
0.4 x 0.3 0.12		70 ÷ 0.5 140
How far would you travel if you travelled for 2.5 hours at 30mph? d = s x t 30 x 2.5 = 75 miles		How long does it take to travel 100 miles at 25mph? t = d ÷ s = 100 ÷ 25 = 4 hours
Write down the gradient of this line 2		
What is the equation of this line y = 2x + 2		
Before training: 50kg After training: 70kg What is the percentage increase? $\frac{\text{change}}{\text{original}} \times 100$		$\frac{20}{50} \times 100 = 40\%$

Name: _____

October 27	5-a-day	Higher
Calculate length y $y = \frac{5}{\tan 60}$ $= 2.887\text{cm}$	 A O	
 Work out the area of the green shape		$5(4x+3) - 3(x-4)$ $20x + 15 - 3x + 12$ $17x + 27$
Calculate the distance between the coordinates (0, 5) and (9, 10). Give your answer correct to 1 decimal place. 		$x^2 = 5^2 + 9^2$ $x^2 = 25 + 81$ $x^2 = 106$ $x = 10.3\text{cm}$
Two containers are mathematically similar. The height of container A is 5cm. The height of container B is 15cm The volume of A is 120cm³	What is the volume of B? 1×3 $3^3 = 27$	120×27 $= 3240\text{cm}^3$
Expand and simplify $(\sqrt{3} + \sqrt{5})^2$ $(\sqrt{3}+\sqrt{5})(\sqrt{3}+\sqrt{5})$ $3 + \sqrt{15} + \sqrt{15} + 5$		$8 + 2\sqrt{15}$