




July 22nd	5-a-day	Numeracy
<p>35p</p>  <p>£1.40</p> <p>Michael has 7 five pence pieces and 7 twenty pence pieces</p>	<p>How much money does Michael have?</p> <p>£1.75</p>	
<p>4 8 12 16 20 24 28</p> <p>Each number is a ..... of 4</p> <p>Circle the square numbers</p>		
<p>400 of 600 students are girls.</p> <p>How many are boys?</p> <p>200</p>	<p>What fraction are girls?</p> <p>Simplify your answer.</p> <p><math>\frac{400}{600} = \frac{4}{6} = \frac{2}{3}</math></p>	
<p>Simplify</p> <p><math>\frac{8}{10}</math></p> <p><math>\frac{4}{5}</math></p>		
<p>5cm</p>  <p>3cm</p>	<p>Sketch a triangle with the same area as this rectangle.</p> 	

July 22	5-a-day	Foundation
<p>Solve <math>4(4x - 3) = 68</math></p> $16x - 12 = 68$ $16x = 80$		$x = 5$
<p>Make u the subject</p> $v = u + 10t$ $-10t \quad -10t$		$v - 10t = u$ $u = v - 10t$
<p>7    3    8    2    5    1</p> <p>5    3    4    6    2    3</p> $1 \ 2 \ 3 \ 3 \ 3 \ 4 \ 5 \ 5 \ 8 \ 8 \ 8$	<p>(a) mode    3</p> <p>(b) median    3.5</p> <p>(c) range    7</p>	
<p>When Ali takes a penalty the probability that he will score a goal is <math>\frac{4}{5}</math>.</p> <p>Ali takes 30 penalties, how many times is he expected to score a goal.</p>		$\frac{4}{5} \times 30$ $= 24$
		<p>Calculate the volume of the prism.</p> $45 \times 12 = 540 \text{ cm}^3$

July 22	5-a-day	Higher
<p>Expand and simplify</p> $(x-3)^2 (x-3)(x-3)$ $x^2 - 6x + 9$		
<p>What is the reciprocal of 6?</p> $\frac{1}{6}$	<p>Martin claims the reciprocal of zero is 0.</p> <p>Is he correct? <sup>No</sup></p> $\frac{1}{0} \text{ is undefined.}$	
<p>Solve</p> $x^2 + 8x - 9 = 0$	$(x+9)(x-1) = 0$ $x = -9 \quad x = 1$	
<p>Year 7 129 Year 8 240 Year 9 180</p> <p>Matt wants to take a stratified sample of 50. How many Year 8 should he pick?</p>	$\frac{240}{549} \times 50 = 21.86$ <p>22 (21)</p>	
<p>W is inversely proportional to Y</p> <p>When W = 6, Y = 5.</p> <p>Calculate W when Y = 2.</p>	$W \propto \frac{1}{Y} \quad W = \frac{k}{Y} \quad 6 = \frac{k}{5}$ $k = 30$ $W = \frac{30}{2} = 15$	