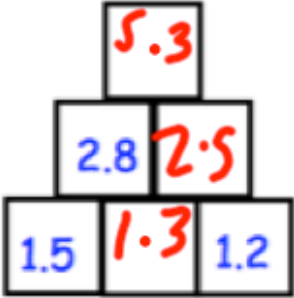
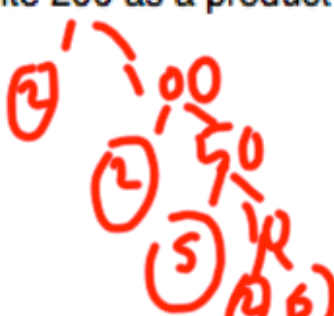


June 25th	5-a-day	Numeracy
<p><math>3 \times 4 + 8</math></p> <p><math>3 \times 4 + 8</math></p> <p><math>12 + 8 = 20</math></p>	<p><math>4 + 4 \times 4</math></p> <p><math>4 + 16 = 20</math></p>	
<p>Usman buys one packet of cereal for £2.47 and 3 pints of milk at 38p each.</p> <p>Work out how much change he should get from £5.</p> <p><math>3 \times 38p = £1.14</math></p>	<p><math>2.47</math></p> <p><math>1.14</math></p> <hr style="width: 50%; margin-left: 0;"/> <p><math>3.61</math></p> <p><math>£5 - £3.61 = £1.39</math></p>	
<p><math>38 \times 92</math></p> <p><math>3496</math></p>		
<p>The number in each block is found by adding the two blocks directly beneath it.</p> <p>Find the missing numbers.</p>		
<p>Find the mean of</p> <p><math>4 + 2 + 5 + 8 + 6 + 4 + 2 + 3 + 5 + 1 = 40</math></p> <p><math>40 \div 10 = 4</math></p>		

June 25	5-a-day	Foundation
<p>Work out 5% of 70</p> $10\% = 7$ $5\% = 3.5$		
<p>Write 200 as a product of primes.</p> 	$2 \times 2 \times 2 \times 5 \times 5$ $2^3 \times 5^2$	
<p>The sum of <u>Claire</u> and Hannah's ages is 45.</p> <p>If their ages are in the ratio <u>2:3</u>.</p> <p>How old is Claire?</p> $18$	$2 + 3 = 5$ $45 \div 5 = 9$ $2 \times 9 = 18 \leftarrow \text{Claire}$ $3 \times 9 = 27$	
<p>How far does a motorist travel if his speed is 60mph for 4 hours?</p> $d = s \times t$ $60 \times 4 = 240 \text{ miles}$		
<p>Simplify <math>5w \times 4w \times 2w</math></p> $40w^3$		

June 25	5-a-day	Higher
<p>Solve</p> $\frac{16-x}{5} = 2+x$	$16-x = 10+5x$ $16 = 10+6x$ $6 = 6x$ $x = 1$	
<p>Factorise</p> $4a + 12$ $4(a+3)$	<p>Factorise</p> $y^2 - 6y$ $y(y-6)$	
<p>How long will it take an athlete to run 6000m at an average speed of 3 metres per second?</p> <p>Give your answer in minutes and seconds.</p>	$t = d \div s$ $6000 \div 3 = 2000 \text{ sec}$ $2000 \div 60 = 33.3$ $33 \text{ mins } 20 \text{ seconds}$	
<p>Find an equation of the line perpendicular to <math>y = 2x - 1</math> and passing through <math>(2, 4)</math></p> $m = -\frac{1}{2}$	$y = -\frac{1}{2}x + c$ $4 = -\frac{1}{2}(2) + c$ $4 = -1 + c$ $c = 5$ $y = -\frac{1}{2}x + 5$	
<p>Factorise <math>2x^2 + x - 6</math></p>	<p>Factorise <math>a^4 - b^4</math></p> $(a^2 - b^2)(a^2 + b^2)$	