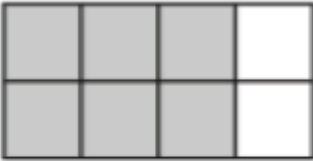
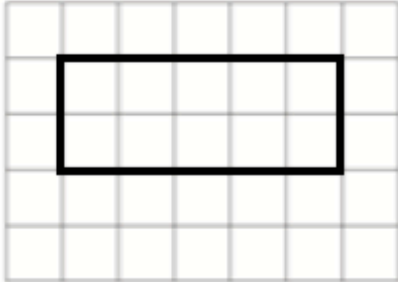
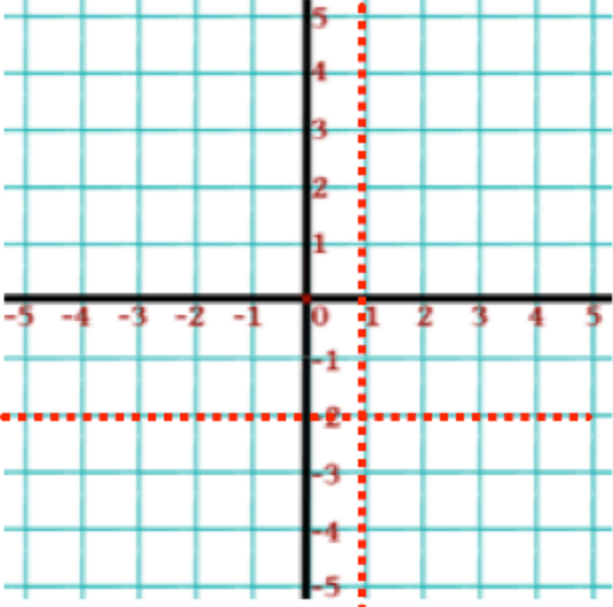

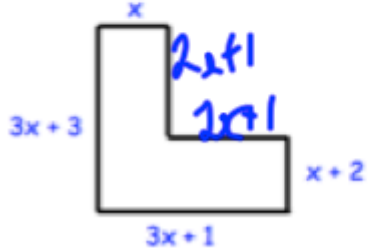




July 19th	5-a-day	Numeracy
 <p>What fraction of this shape is shaded?</p> <p><math>\frac{3}{4}</math> (<math>\frac{6}{8}</math>)</p>	<p>What percentage of this shape is shaded?</p> <p>75%</p>	
	<p>This is a centimetre grid.</p> <p>Draw a rectangle with area 10cm<sup>2</sup></p>	
<p>Work out 10% of £2</p> <p>£0.20 or 20p</p>	<p>Work out 5% of £2</p> <p>£0.10 or 10p</p>	
$\begin{array}{r} 5784 \\ + 419 \\ \hline 6203 \end{array}$	<p>6203</p>	
<p>Write down the number which is 5 less than ten thousand and two.</p> <p>9997</p>		

July 19	5-a-day	Foundation												
<p>Anne and Ben are giraffes</p> <p>The ratio of Anne's height: Ben's height is 2:5</p> <p>If Anne is 6 foot tall, how tall is Ben?</p> <p><math>6 \div 2 = 3</math></p>	<p><math>5 \times 3 = 15</math> foot</p>													
	<p>Draw <math>x = 1</math></p> <p>Draw <math>y = -2</math></p>													
<p>Calculate the area of the trapezium</p> <p><math>\frac{1}{2}(2.5 + 5.5) \times 4</math></p> <p><math>\frac{1}{2}(8) \times 4 = 16\text{cm}^2</math></p>	<p>Complete the table and draw the line <math>x + y = 3</math></p> <table border="1" data-bbox="805 1075 1276 1276"> <tr> <td>x</td> <td>-2</td> <td>-1</td> <td>0</td> <td>1</td> <td>2</td> </tr> <tr> <td>y</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>1</td> </tr> </table> 		x	-2	-1	0	1	2	y	5	4	3	2	1
x	-2	-1	0	1	2									
y	5	4	3	2	1									
 <p>The perimeter is 68cm</p>	<p>Find x</p> <p><math>12x + 8</math></p>													

July 19	5-a-day	Higher
<p>Work out the circumference of this circle.</p> 		$\pi \times 9.4$ $= 29.531 \text{ cm}$ <p>or <math>9.4\pi \text{ cm}</math>.</p>
<p>A car travels 100 miles in 1 hour and 45 minutes.</p> <p>Calculate it's speed.</p>	$100 \div 1.75$	$57.143 \text{ mph}$
<p>The Earth and the Sun are 150000000km apart.</p> <p>Write this number in standard form.</p>	$1.5 \times 10^8$	<p>Convert 150000000km into metres. Write the answer in standard form.</p> $150000000000$ $1.5 \times 10^{11} \text{ m}$
<p>Simplify</p> $\frac{2a + 12}{a^2 - 36}$	$\frac{2(a+b)}{(a-b)(a+b)}$	$\frac{2}{a-b}$
<p>A cylinder has radius <math>y</math> cm and height <math>2y</math>.</p> <p>Write an expression for the volume of the cylinder.</p>		$\pi \times y^2 \times 2y$ $2\pi y^3$