
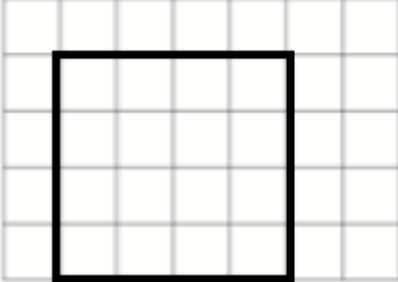




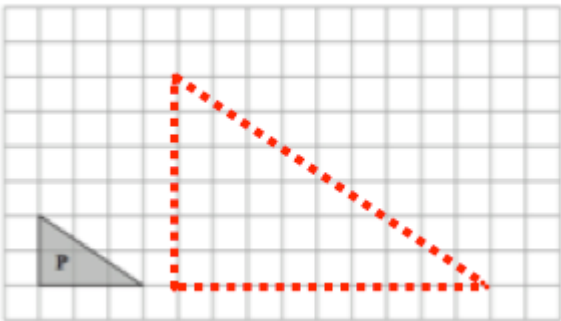


July 28th	5-a-day	Numeracy
<p>Name this shape</p> <p>Trapezium</p>		
	<p>This is a centimetre grid.</p> <p>Draw a square with area 16cm^2</p>	
<p>What number is needed to add to 7.8 to make 10.</p> <p>2.2</p>		
<p>Simplify</p> <p>$8y + 3y$</p> <p>$11y$</p>		
<p>Calculate</p> <p>124^2 15376</p>		

July 28	5-a-day				Foundation												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Pattern number</td> <td style="width: 15%;">1</td> <td style="width: 15%;">2</td> <td style="width: 15%;">3</td> <td style="width: 15%;">4</td> <td style="width: 15%;">5</td> </tr> <tr> <td>Number of sticks</td> <td>8</td> <td>14</td> <td>20</td> <td style="color: red;">26</td> <td style="color: red;">32</td> </tr> </table>	Pattern number	1	2	3	4	5	Number of sticks	8	14	20	26	32					
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Number of sticks	8	14	20	26	32												
<p>Complete the table. How many sticks would be in Pattern number 10?</p>																	
<p>Pattern 1</p>  <p style="color: red; font-size: 2em;">1</p>	<p>Pattern 2</p>  <p style="color: red; font-size: 2em;">5</p>	<p>Pattern 3</p>  <p style="color: red; font-size: 2em;">9</p>	<p>Draw Pattern 4 below</p>  <p style="color: red; font-size: 2em;">13</p>														
<p>How many squares will be in pattern 10?</p> <p style="color: red; font-size: 1.5em;">1 5 9 13 17</p> <p style="color: red; font-size: 1.5em;">21 25 29 33 37</p>			<p>Write an expression for the number of squares in pattern n</p> <p style="color: red; font-size: 2em; text-align: center;">$4n - 3$</p>														
<p style="color: blue; font-size: 1.2em;">Solve $6w - 1 = 5w + 5$</p> <p style="color: red; font-size: 2em; text-align: center;">$w - 1 = 5$</p> <p style="color: red; font-size: 2em; text-align: center;">$w = 6$</p>																	
			<p>Enlarge P by scale factor 3</p>														

July 28	5-a-day	Higher
<p>A water tank is two-thirds full. A quarter of the water is poured out. What fraction of a tank is left?</p> <p>$\frac{3}{4}$ of $\frac{2}{3}$</p>		$\frac{2}{3} \times \frac{3}{4} = \frac{1}{2}$
<p>Expand and simplify $(x - 7)^2$</p> <p>$(x - 7)(x - 7) =$</p>		$x^2 - 14x + 49$
<p>There are 5 red and 5 green counters in a bag.</p> <p>Kellie takes out a counter, replaces it and takes out another.</p> <p>What is the probability of two reds?</p>		$\frac{5}{10} \times \frac{5}{10} = \frac{25}{100}$ $\frac{1}{4}$
<p>Solve</p> $\frac{3}{2x - 1} - \frac{4}{3x - 1} = 1$ <p>x is a positive constant.</p>		$\frac{x + 1}{(2x - 1)(3x - 1)} = 1$ $x + 1 = (2x - 1)(3x - 1)$ $x + 1 = 6x^2 - 2x - 3x + 1$ $0 = 6x^2 - 6x$ $0 = 6x(x - 1)$ $x \neq 0 \text{ or } x = 1$
$\frac{3(3x - 1) - 4(2x - 1)}{(2x - 1)(3x - 1)} = 1$ $\frac{9x - 3 - 8x + 4}{(2x - 1)(3x - 1)} = 1$		