

Number Patterns

<p>1</p>	<p>A sequence of patterns formed by dots is as shown.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 20px;"> <div style="text-align: center;"> <p><u>Pattern 1</u></p>  <p>Number of dots = 1</p> </div> <div style="text-align: center;"> <p><u>Pattern 2</u></p>  <p>Number of dots = 5</p> </div> <div style="text-align: center;"> <p><u>Pattern 3</u></p>  <p>Number of dots = 9</p> </div> <div style="text-align: center;"> <p><u>Pattern 4</u></p> <div style="border: 1px solid black; width: 150px; height: 80px; margin: 0 auto;"></div> </div> </div> <p>(a) Draw the 4th pattern of the sequence in the above box. [1] (b) State the total number of dots required, in terms of n, to form the n^{th} pattern? [2] (c) Pattern P requires 333 dots. What is the value of 'P'? [2]</p>
<p>2</p>	<p>Given the following sequence,</p> $\frac{1}{6} + \frac{1}{3} = \frac{1}{2}$ $\frac{1}{12} + \frac{1}{4} = \frac{1}{3}$ $\frac{1}{20} + \frac{1}{5} = \frac{1}{4}$ $\frac{1}{30} + \frac{1}{6} = \frac{1}{5}$ $\frac{1}{p} + \frac{1}{12} = \frac{1}{11}$ <p>Find</p> <p>(a) the 5th line of sequence, [1] (b) the value of p, [1] (c) the value of $\frac{1}{99} - \frac{1}{99}$, showing your workings clearly. [2]</p>

Secondary Maths Exam Paper

Mark Chatterton

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