

0 Level Math

4024/12

Paper 1

May June 2022

2. Consider the sequence of patterns using counters.



Pattern 1 Pattern 2 Pattern 3

Fig. 1 Complete the table

Pattern number	1	2	3	4	5
Number of counters	4	9	16	25	36

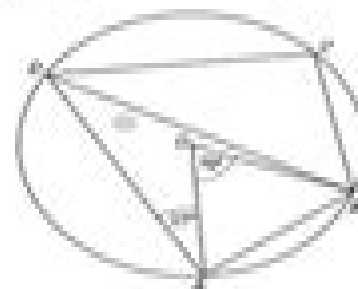
3. Find an expression, in terms of n , for the number of counters in Pattern n .

$$\text{No. of Counters in } n\text{th Pattern } 4 + 4n + n^2$$

$$a_n = 2 + 3n$$

$$2 + 3n$$

4. A circle with center O and radius 5 cm is shown. The points A , B , C , D , E are on the circumference. The points A , B , C , D , E are in order clockwise from the top.



5. A circle with center O and radius 5 cm is shown. The points A , B , C , D , E are on the circumference. The points A , B , C , D , E are in order clockwise from the top.

6. The graph of $y = \frac{1}{2}x^2 - 3x + 2$ is shown. The graph intersects the x -axis at $x = 2$ and $x = 6$. The graph intersects the y -axis at $y = 2$.

$$y - 2 = \frac{1}{2}x^2 - 3x$$



$$\frac{1}{2} \times 4 \times 4 = 8$$

7. By drawing a tangent, estimate the gradient of the curve at $x = 4$.

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