

# 0 Level Math

4024/12

Paper 1

May June 2022

4. Illustration is a sequence of patterns using counters.



Pattern 1

Pattern 2

Pattern 3

Fig. 1 Complete the table

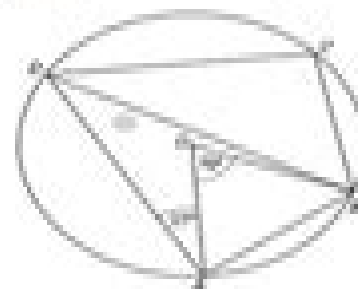
Pattern number	1	2	3	4	5
Number of counters	4	9	16	25	36

Fig. 2 Find an expression, in terms of  $n$ , for the number of counters in Pattern  $n$ .

$$\text{No. of counters in } n \text{th pattern } 4 + 4n + n^2 \\ a_n = 2 + 3n$$

$$2 + 3n$$

Fig. 3



DO NOT WRITE IN THESE SPACES

A. B. C. D. E. are points on the circle. Lines O A, O B, O C, O D, O E are drawn.

11. The graph of  $y = \frac{1}{2}x^2 - 3x + 2$  is shown below.



$$\frac{1}{2}x^2 - 3x + 2 = 0$$

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

# Maths Paper 4024

**CL Gary**



## Maths Paper 4024:

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## **Table of Contents Maths Paper 4024**

1. Understanding the eBook Maths Paper 4024
  - The Rise of Digital Reading Maths Paper 4024
  - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper 4024
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Maths Paper 4024
  - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper 4024
  - Personalized Recommendations
  - Maths Paper 4024 User Reviews and Ratings
  - Maths Paper 4024 and Bestseller Lists
5. Accessing Maths Paper 4024 Free and Paid eBooks
  - Maths Paper 4024 Public Domain eBooks
  - Maths Paper 4024 eBook Subscription Services
  - Maths Paper 4024 Budget-Friendly Options

6. Navigating Maths Paper 4024 eBook Formats
  - ePub, PDF, MOBI, and More
  - Maths Paper 4024 Compatibility with Devices
  - Maths Paper 4024 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Maths Paper 4024
  - Highlighting and Note-Taking Maths Paper 4024
  - Interactive Elements Maths Paper 4024
8. Staying Engaged with Maths Paper 4024
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Maths Paper 4024
9. Balancing eBooks and Physical Books Maths Paper 4024
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Maths Paper 4024
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Maths Paper 4024
  - Setting Reading Goals Maths Paper 4024
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Paper 4024
  - Fact-Checking eBook Content of Maths Paper 4024
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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