

# 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 Complete the table



DO NOT WRITE IN THESE SPACES

A. B. Find the value of  $x$  in the circle, centre O.

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

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



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

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

# O Level Maths Paper 23

**Ransford Tetteh**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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## **Table of Contents O Level Maths Paper 23**

1. Understanding the eBook O Level Maths Paper 23
  - The Rise of Digital Reading O Level Maths Paper 23
  - Advantages of eBooks Over Traditional Books
2. Identifying O Level Maths Paper 23
  - 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 O Level Maths Paper 23
  - User-Friendly Interface
4. Exploring eBook Recommendations from O Level Maths Paper 23
  - Personalized Recommendations
  - O Level Maths Paper 23 User Reviews and Ratings
  - O Level Maths Paper 23 and Bestseller Lists
5. Accessing O Level Maths Paper 23 Free and Paid eBooks
  - O Level Maths Paper 23 Public Domain eBooks

- 
- O Level Maths Paper 23 eBook Subscription Services
  - O Level Maths Paper 23 Budget-Friendly Options
6. Navigating O Level Maths Paper 23 eBook Formats
    - ePub, PDF, MOBI, and More
    - O Level Maths Paper 23 Compatibility with Devices
    - O Level Maths Paper 23 Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of O Level Maths Paper 23
    - Highlighting and Note-Taking O Level Maths Paper 23
    - Interactive Elements O Level Maths Paper 23
  8. Staying Engaged with O Level Maths Paper 23
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers O Level Maths Paper 23
  9. Balancing eBooks and Physical Books O Level Maths Paper 23
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection O Level Maths Paper 23
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine O Level Maths Paper 23
    - Setting Reading Goals O Level Maths Paper 23
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of O Level Maths Paper 23
    - Fact-Checking eBook Content of O Level Maths Paper 23
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks

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- Interactive and Gamified eBooks

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