

# Grade 9 Mathematics Paper 2 - Mock Final Examination

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Time: 2 Hours

Answer ALL questions. Show all working. Use separate sheets where necessary.

## Section A: Short Answer Questions (30 marks)

1. Simplify:  $(3x - 2) + (5x + 7) - (2x - 4)$
2. Solve for  $x$ :  $2x + 3 = 11$
3. Expand and simplify:  $(x + 4)(x - 2)$
4. Factorize:  $x^2 - 5x + 6$
5. Evaluate:  $\sqrt{144} + \sqrt[3]{27}$
6. Convert  $1101_2$  to base 10.
7. Find the value of  $x$  in the matrix equation:  $\begin{bmatrix} x & 2 \end{bmatrix} + \begin{bmatrix} 3 & 1 \end{bmatrix} = \begin{bmatrix} 5 & 3 \end{bmatrix}$
8. Find the mean of the data: Marks: 2, 3, 4, 5; Frequency: 1, 2, 3, 4
9. Use the Pythagorean theorem to find the hypotenuse of a triangle with legs 6 cm and 8 cm.
10. Simplify using index laws:  $2^4 \times 2^3 \div 2^2$

## Section B: Long Answer Questions (70 marks)

11. A cylinder has a radius of 3 cm and a height of 10 cm. Calculate the volume of the cylinder. (Use  $\pi = 3.14$ )
12. Solve the simultaneous equations:  $2x + y = 7$  and  $x - y = 1$
13. A student scored the following marks in tests: 12, 15, 13, 10, 14. Find the mean, median, and mode.
14. Draw a bar chart to represent the data: Apples - 10, Bananas - 15, Oranges - 5, Mangoes - 20.
15. A rectangular prism has length 8 cm, width 3 cm and height 2 cm. Calculate its surface area.
16. Draw the graph of  $y = 2x - 1$  for  $x$  values from -2 to 3.
17. A matrix  $A = \begin{bmatrix} 2 & 3 \\ 1 & 4 \end{bmatrix}$ . Find the determinant of  $A$ .
18. A number is selected at random from the set  $\{1, 2, 3, 4, 5, 6\}$ . Find the probability of selecting an even number.
19. If the  $n$ th term of a sequence is given by  $T_n = 3n - 1$ , find the first five terms.
20. Solve the quadratic equation:  $x^2 - 4x - 5 = 0$  using the quadratic formula.

# Maths Paper2 Grade1june Exam

**RC Schank**



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**Maths Handbook & Study Guide Grade 12** Kevin Smith,2017-11-01 The Maths Handbook Study Guide is a comprehensive reference book and set of notes that covers everything in one book The book is written in a clear simple visual and logical manner The colour coding facilitates explanations definitions formulas recaps of previous work hints and ideas It is easy to read easy to understand and it is easy to apply what has been learnt It works in conjunction with all other Maths books It is a welcome addition to the Handbook and Study Guide series The Maths Handbook and Study Guide demystifies Maths and helps students to reach their potential in this challenging subject The sub title of the book is Maths Made Easy and this is what it aims to do Kevin ensures that his work is up to date at all times and that it is suitable for IEB and National Curriculum students There are exercises in the front of the book and solutions to problems at the back **GCSE**

**Mathematics - A Pocket Guide for Re-takers and Adults** Mick Price,2024-05-24 As its title suggests this book by been devised by author Mick Price as an essential guide for those revisiting Mathematics at GCSE level Crafted from years of experience and class tested materials it serves as a unique revision tool tailored for both FE college students and adults seeking to improve their previous grades or refresh long forgotten knowledge Stripping back the complexities of mathematics this book focuses on the fundamentals needed to achieve a grade 4 without overwhelming its readers with the entirety of KS4 content GCSE Mathematics promises accessibility and convenience making it an indispensable companion for both classroom learning and self study Inside you ll find a blend of theoretical essentials practical real life examples and exercises designed for both younger and more mature learners all presented in a straightforward uncondescending manner GCSE Mathematics is not just a book it s a tool for success always within reach Commonwealth Universities Yearbook

,1982-02 **GCSE Maths** David Bowles,Paul Metcalf,2002 Written specifically for the Foundation and Intermediate tier GCSE for the AQA Modular GCSE Specification B This clearly presented book will help all students looking to achieve a grade C in GCSE maths An ideal stand alone resource for students doing the GCSE course in one year including students resitting modules **Daily Graphic** Sam Clegg,1992-11-04 The Times Index ,2013-06 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Time educational supplement Scotland and the Times higher education supplement The Educational year book. [5 issues]. ,1880 *Current Literature* ,1951

*Pratiyogita Darpan* ,2007-08 Pratiyogita Darpan monthly magazine is India s largest read General Knowledge and Current Affairs Magazine Pratiyogita Darpan English monthly magazine is known for quality content on General Knowledge and Current Affairs Topics ranging from national and international news issues personality development interviews of examination toppers articles write up on topics like career economy history public administration geography polity social environment scientific legal etc solved papers of various examinations Essay and debate contest Quiz and knowledge testing features are covered every month in this magazine *Whitaker's Cumulative Book List* ,1953 *Crucial Issues in*

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