

## GRADE 9 MATHEMATICS JUNE EXAM

### Question 1

Choose the correct answer. Write only the letter next to the question number on your answer sheet.

1.1 Which of the following is a prime number?

- a) 25
- b) 42
- c) 27
- d) -23

1.2 Complete:  $2(\sqrt{36}) - (-4)^2 + \sqrt{-343}$

- a) 5
- b) -11
- c) -6
- d) -23

1.3 The next number in the sequence 1; 9; 27; ... is

- a) 56
- b) 49
- c) 64
- d) 36

1.4 Complete:  $5\frac{1}{2}x - 1\frac{1}{4}x =$

- a)  $2\frac{1}{4}x$
- b)  $3\frac{1}{4}x$
- c)  $2\frac{11}{2}x$
- d)  $4\frac{1}{2}x$

1.5 Which of the following exponential laws are INCORRECT?

- a)  $x^a \cdot x^b = x^{a+b}$
- b)  $x^a \div x^b = x^{a-b}$
- c)  $x^a = 0$
- d)  $(x^a)^b = x^a$

[2x2]  
 [10]

### Question 2

2.1 Write down the HCF of 24 and 36.

(2)

2.2 Write down the LCM of 12, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100.

(3)

2.3 Subtract  $2x^2 - 3x^2 - x$  from  $7x^2 - 5x - 4x^3$

(3)  
 [6]

### Question 3

3.1 Calculate:  $(2,0 \times 10^2) \times (3,5 \times 10^3)$

(1)

3.2 If  $x = 2$ , calculate  $\frac{1}{2}x^2 + 3x - 4$

(3)

3.3 Simplify:

3.3.1  $-4(x - 5)(x + 3)$

(2)

3.3.2  $\frac{x^2 - 4}{x} - \frac{x}{x - 2}$

(4)

3.3.3  $\frac{x^2 - 4}{x} \div \frac{x - 2}{x + 2}$

(3)

3.3.4  $\frac{x^2 - 4}{x^2 + 4x + 4}$

(4)  
 [12]

### Question 4

Solve the following equations.

4.1  $2^x = \frac{1}{2}$

(2)

4.2  $x^2 - 4 = 0$

(4)

4.3  $(x + 5)(x - 2) = 0$

(2)

# Grade 9 Maths June Exam Paper

**M Lipman**



## **Grade 9 Maths June Exam Paper:**

**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 has 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. **The Times Index**, 2011 Indexes the

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knowledge testing features are covered every month in this magazine      Resources in Education ,1998      **Daily Graphic** Sam Clegg,1992-11-04      WBPS-C-S Exam PDF-West Bengal Civil Service (Executive) etc. Preliminary Exam Basic Maths/Numerical Ability Subject Only PDF eBook Chandresh Agrawal,nandini books,2024-06-25 SGN The West Bengal Civil Service Executive etc Preliminary Exam Basic Maths Numerical Ability Subject Only PDF eBook Covers Objective Questions From Various Competitive Exams With Answers      **Corporate DNA** Arnold Kransdorff,2017-05-15 For more than half a century the developed world has been chasing productivity It s financed our wealth but that part of output on which our continued prosperity depends productivity growth is petering out The traditional scapegoat has been the dearth of worker skills But the worker skills base has never been higher The other explanation is that it is managers who are not giving full value to their employers The way they re making decisions is conferring virtually no upside potential which means they re leaving us wide open for experience poor competitors to step into our experience rich shoes Exactly as Japan did in the 1960s and the so called BRICK countries Brazil Russia India China especially China and Korea are threatening now If creeping uncompetitiveness is not to overtake us from where are the next round of productivity gains to come from Identifying some gaping holes in the way managers are taught to manage this book outlines both the size of the problem and a solution Businesses and other organizations the author says have to substantially raise the quality of their decision making For this to happen they need to be much better experiential learners And for experiential learning to take place companies and other institutions have to better manage their corporate DNA the institution specific experiences otherwise known as Organizational Memory OM which characterizes any organization s ability to perform is the single biggest influence on decision making excellence It is a factor of production that has already been paid for at great expense yet is readily discarded in the backwash of the biggest change in workplace practice for more than a century the actively encouraged flexible labour market Corporate DNA explains why this key component of intellectual capital should be better managed can be better managed and particularly how it can be used to help organizations reduce the pandemic of repeated mistakes rei

**Whitaker's Cumulative Book List** ,1953      *The Psychologist* ,1991      *The Educational year book. [5 issues].* ,1880

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