

**GRADE 9 MATHEMATICS  
NOVEMBER EXAMINATION PAPER 1**

**QUESTION 1**

Choose and write the correct letter on your answer sheet.

1.1 The constant value in the expression  $2x^2 + 3x + 2$  is \_\_\_\_\_ (3)

- A 3  
B 2  
C 4  
D 5

1.2 How many terms are in the expression  $2x^2 + 3x + 2$ ? \_\_\_\_\_ (3)

- A 1  
B 2  
C 3  
D 4

1.3 Determine the following two terms in the sequence: \_\_\_\_\_ (3)

- A 48; 56  
B 48; 57  
C 47; 56  
D 47; 57

1.4 Prime numbers that lie between 8 and 22: \_\_\_\_\_ (3)

- A 11, 13, 17, 19, 23  
B 11, 17, 19, 23  
C 11, 13, 17, 19  
D 11, 17, 19, 23

1.5  $\sqrt{324}$  is \_\_\_\_\_ (3)

- A 18  
B 74  
C 18 and 74  
D 18

1.6 If  $x = 2$ , the value of  $3x^2 + 4x$  would be: \_\_\_\_\_ (3)

- A 10  
B 12  
C 14  
D 16

6 x 1 = 6

**QUESTION 2: WHOLE NUMBERS & INTEGERS**

2.1 Write 345:15 in it's simplest form. \_\_\_\_\_ (2)

2.2 If 10 contractors can build a house in 10 days. How many contractors, working at the same rate, will be needed to build the house in 4 days? \_\_\_\_\_ (3)

2.3 John drove 620km in 5 and a half hours. Calculate his average speed. \_\_\_\_\_ (3)

2.4 Write the number 48 as a product of its prime factors. Write the prime factors in exponential form. \_\_\_\_\_ (4)

2.5 Calculate the following:

- 2.5.1  $2 \times 10^3 + 3 \times 10^2$  \_\_\_\_\_ (3)  
2.5.2  $2 \times 10^3 + 3 \times 10^2$  \_\_\_\_\_ (3)  
[16]

**QUESTION 3: EXPONENTS**

3.1  $5^2 \times \sqrt{5} + 5^2$  \_\_\_\_\_ (2)

3.2  $5^2 \times 5^3$  \_\_\_\_\_ (2)

3.3  $\frac{5^2}{5^3}$  \_\_\_\_\_ (3)

3.4  $\sqrt{5^2} \times 5^3$  \_\_\_\_\_ (3)  
[10]

# Memorandum Grade Maths Paper 2014 November Exams

**John L. Rudolph**



## **Memorandum Grade Maths Paper 2014 November Exams:**

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*The Gambler and the Scholars* John F. Dooley, 2023-04-05 In May 1917 William and Elizebeth Friedman were asked by the U S Army to begin training officers in cryptanalysis and to decrypt intercepted German diplomatic and military communications In June 1917 Herbert Yardley convinced the new head of the Army's Military Intelligence Division to create a code and cipher section for the Army with himself as its head These two seminal events were the beginning of modern American cryptology the growth of which culminated 35 years later with the creation of the National Security Agency Each running their own cryptologic agencies in the 1920s the Friedman Yardley relationship was shattered after Yardley published a tell all book about his time in military intelligence Yet in the end the work they all started in 1917 led directly to the modern American intelligence community As they got older they became increasingly irrelevant in the burgeoning American cryptologic fraternity Topics and features Examines the lives of three remarkable and pioneering cryptologists Offers fascinating insights into spies codes and ciphers rumrunners poker and military history Sheds new light on interesting parts of the cryptologists' careers especially Elizebeth Friedman whose work during World War II has just begun to be explored Recounts several good stories i.e. What if the Friedmans had gone to work for Herbert Yardley in his new Cipher Bureau in 1919 What if Yardley had moved back to Washington to work for William Friedman a decade later This enjoyable book has wide appeal for general readers interested in the evolution of American cryptology American historians particularly of World War I the inter war period and World War II signals intelligence and historians of and general readers

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## **Table of Contents Memorandum Grade Maths Paper 2014 November Exams**

1. Understanding the eBook Memorandum Grade Maths Paper 2014 November Exams
  - The Rise of Digital Reading Memorandum Grade Maths Paper 2014 November Exams
  - Advantages of eBooks Over Traditional Books
2. Identifying Memorandum Grade Maths Paper 2014 November Exams
  - 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 Memorandum Grade Maths Paper 2014 November Exams
  - User-Friendly Interface
4. Exploring eBook Recommendations from Memorandum Grade Maths Paper 2014 November Exams

- Personalized Recommendations
  - Memorandum Grade Maths Paper 2014 November Exams User Reviews and Ratings
  - Memorandum Grade Maths Paper 2014 November Exams and Bestseller Lists
5. Accessing Memorandum Grade Maths Paper 2014 November Exams Free and Paid eBooks
    - Memorandum Grade Maths Paper 2014 November Exams Public Domain eBooks
    - Memorandum Grade Maths Paper 2014 November Exams eBook Subscription Services
    - Memorandum Grade Maths Paper 2014 November Exams Budget-Friendly Options
  6. Navigating Memorandum Grade Maths Paper 2014 November Exams eBook Formats
    - ePub, PDF, MOBI, and More
    - Memorandum Grade Maths Paper 2014 November Exams Compatibility with Devices
    - Memorandum Grade Maths Paper 2014 November Exams Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Memorandum Grade Maths Paper 2014 November Exams
    - Highlighting and Note-Taking Memorandum Grade Maths Paper 2014 November Exams
    - Interactive Elements Memorandum Grade Maths Paper 2014 November Exams
  8. Staying Engaged with Memorandum Grade Maths Paper 2014 November Exams
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Memorandum Grade Maths Paper 2014 November Exams
  9. Balancing eBooks and Physical Books Memorandum Grade Maths Paper 2014 November Exams
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Memorandum Grade Maths Paper 2014 November Exams
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Memorandum Grade Maths Paper 2014 November Exams
    - Setting Reading Goals Memorandum Grade Maths Paper 2014 November Exams
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Memorandum Grade Maths Paper 2014 November Exams

- Fact-Checking eBook Content of Memorandum Grade Maths Paper 2014 November Exams
- 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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