

**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 14  
B 16  
C 18  
D 20

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 in km/h. \_\_\_\_\_ (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  $2 \times 10^3 + 3 \times 10^2 + 4 \times 10^1 + 5$  \_\_\_\_\_ (3)  
2.5.2  $2 \times 10^3 + 3 \times 10^2 + 4 \times 10^1 + 5$  \_\_\_\_\_ (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]

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**DP Hallahan**



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## **Table of Contents Grade 9 Mathematics November 2012 Memorandum Thutong**

1. Understanding the eBook Grade 9 Mathematics November 2012 Memorandum Thutong
  - The Rise of Digital Reading Grade 9 Mathematics November 2012 Memorandum Thutong
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade 9 Mathematics November 2012 Memorandum Thutong
  - 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 Grade 9 Mathematics November 2012 Memorandum Thutong
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 9 Mathematics November 2012 Memorandum Thutong
  - Personalized Recommendations
  - Grade 9 Mathematics November 2012 Memorandum Thutong User Reviews and Ratings
  - Grade 9 Mathematics November 2012 Memorandum Thutong and Bestseller Lists
5. Accessing Grade 9 Mathematics November 2012 Memorandum Thutong Free and Paid eBooks

- Grade 9 Mathematics November 2012 Memorandum Thutong Public Domain eBooks
  - Grade 9 Mathematics November 2012 Memorandum Thutong eBook Subscription Services
  - Grade 9 Mathematics November 2012 Memorandum Thutong Budget-Friendly Options
6. Navigating Grade 9 Mathematics November 2012 Memorandum Thutong eBook Formats
- ePub, PDF, MOBI, and More
  - Grade 9 Mathematics November 2012 Memorandum Thutong Compatibility with Devices
  - Grade 9 Mathematics November 2012 Memorandum Thutong Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Grade 9 Mathematics November 2012 Memorandum Thutong
  - Highlighting and Note-Taking Grade 9 Mathematics November 2012 Memorandum Thutong
  - Interactive Elements Grade 9 Mathematics November 2012 Memorandum Thutong
8. Staying Engaged with Grade 9 Mathematics November 2012 Memorandum Thutong
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Grade 9 Mathematics November 2012 Memorandum Thutong
9. Balancing eBooks and Physical Books Grade 9 Mathematics November 2012 Memorandum Thutong
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Grade 9 Mathematics November 2012 Memorandum Thutong
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Grade 9 Mathematics November 2012 Memorandum Thutong
- Setting Reading Goals Grade 9 Mathematics November 2012 Memorandum Thutong
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 9 Mathematics November 2012 Memorandum Thutong
- Fact-Checking eBook Content of Grade 9 Mathematics November 2012 Memorandum Thutong
  - 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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