

**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 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 $2 \times 10^3 + 3 \times 10^2$ _____ (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]

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M Tight



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Table of Contents Grade 1maths Paper Memorandum 2014 November

1. Understanding the eBook Grade 1maths Paper Memorandum 2014 November
 - The Rise of Digital Reading Grade 1maths Paper Memorandum 2014 November
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 1maths Paper Memorandum 2014 November
 - 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 1maths Paper Memorandum 2014 November
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 1maths Paper Memorandum 2014 November
 - Personalized Recommendations
 - Grade 1maths Paper Memorandum 2014 November User Reviews and Ratings
 - Grade 1maths Paper Memorandum 2014 November and Bestseller Lists
5. Accessing Grade 1maths Paper Memorandum 2014 November Free and Paid eBooks
 - Grade 1maths Paper Memorandum 2014 November Public Domain eBooks
 - Grade 1maths Paper Memorandum 2014 November eBook Subscription Services
 - Grade 1maths Paper Memorandum 2014 November Budget-Friendly Options
6. Navigating Grade 1maths Paper Memorandum 2014 November eBook Formats

- ePub, PDF, MOBI, and More
 - Grade 1maths Paper Memorandum 2014 November Compatibility with Devices
 - Grade 1maths Paper Memorandum 2014 November Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Grade 1maths Paper Memorandum 2014 November
 - Highlighting and Note-Taking Grade 1maths Paper Memorandum 2014 November
 - Interactive Elements Grade 1maths Paper Memorandum 2014 November
8. Staying Engaged with Grade 1maths Paper Memorandum 2014 November
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 1maths Paper Memorandum 2014 November
9. Balancing eBooks and Physical Books Grade 1maths Paper Memorandum 2014 November
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 1maths Paper Memorandum 2014 November
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 1maths Paper Memorandum 2014 November
- Setting Reading Goals Grade 1maths Paper Memorandum 2014 November
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 1maths Paper Memorandum 2014 November
- Fact-Checking eBook Content of Grade 1maths Paper Memorandum 2014 November
 - 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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635 640 write balanced equations for reactions between the following aluminum and sulfuric acid $2\text{Al} + 3\text{H}_2\text{SO}_4 \rightarrow \text{Al}_2(\text{SO}_4)_3 + 3\text{H}_2$

$\text{SO}_4^{2-} + 3\text{H}^+ + 3\text{H}_2\text{O}$ calcium carbonate and hydrobromic acid