

**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 49; 56
- D 49; 57

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

- A 11, 13, 17, 19
- 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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ML Morrison



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Table of Contents Maths Paper1 Scope Grade 9 November

1. Understanding the eBook Maths Paper1 Scope Grade 9 November
 - The Rise of Digital Reading Maths Paper1 Scope Grade 9 November
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper1 Scope Grade 9 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 Maths Paper1 Scope Grade 9 November
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper1 Scope Grade 9 November
 - Personalized Recommendations
 - Maths Paper1 Scope Grade 9 November User Reviews and Ratings
 - Maths Paper1 Scope Grade 9 November and Bestseller Lists
5. Accessing Maths Paper1 Scope Grade 9 November Free and Paid eBooks
 - Maths Paper1 Scope Grade 9 November Public Domain eBooks
 - Maths Paper1 Scope Grade 9 November eBook Subscription Services

- Maths Paper1 Scope Grade 9 November Budget-Friendly Options
- 6. Navigating Maths Paper1 Scope Grade 9 November eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Paper1 Scope Grade 9 November Compatibility with Devices
 - Maths Paper1 Scope Grade 9 November Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper1 Scope Grade 9 November
 - Highlighting and Note-Taking Maths Paper1 Scope Grade 9 November
 - Interactive Elements Maths Paper1 Scope Grade 9 November
- 8. Staying Engaged with Maths Paper1 Scope Grade 9 November
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Paper1 Scope Grade 9 November
- 9. Balancing eBooks and Physical Books Maths Paper1 Scope Grade 9 November
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper1 Scope Grade 9 November
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper1 Scope Grade 9 November
 - Setting Reading Goals Maths Paper1 Scope Grade 9 November
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper1 Scope Grade 9 November
 - Fact-Checking eBook Content of Maths Paper1 Scope Grade 9 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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web aug 3 2022 die dampfmaschine stellte sich als besonders bedeutend für die industrielle revolution heraus sie wurde anfangs in der textilindustrie und später dank verbesserungen auch zum betrieb von

james watt der verbesserer der dampfmaschine ard alpha - Jan 14 2023

web jan 4 2023 im winter 1763 64 kommt es an der universität zu einem schicksalsträchtigen ereignis der talentierte feinmechaniker james watt bekommt den auftrag ein modell einer newcomen dampfmaschine wieder zum laufen zu bringen dabei erkennt er den haken an dieser dampfmaschine die enormen wärmeverluste und die unmengen an kohle