

## 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)  $4\frac{1}{4}x$

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, 18, 20, 24, 30, 36, 40, 45, 50, 60, 72, 80, 90, 100.

(3)

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

(3)  
 [9]

### Question 3

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

(4)

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)

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### **Table of Contents 13 Maths Exam Answers For Grade 9 At Mpumalanga**

1. Understanding the eBook 13 Maths Exam Answers For Grade 9 At Mpumalanga
  - The Rise of Digital Reading 13 Maths Exam Answers For Grade 9 At Mpumalanga
  - Advantages of eBooks Over Traditional Books
2. Identifying 13 Maths Exam Answers For Grade 9 At Mpumalanga
  - 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 13 Maths Exam Answers For Grade 9 At Mpumalanga
  - User-Friendly Interface
4. Exploring eBook Recommendations from 13 Maths Exam Answers For Grade 9 At Mpumalanga
  - Personalized Recommendations

- 13 Maths Exam Answers For Grade 9 At Mpumalanga User Reviews and Ratings
- 13 Maths Exam Answers For Grade 9 At Mpumalanga and Bestseller Lists
- 5. Accessing 13 Maths Exam Answers For Grade 9 At Mpumalanga Free and Paid eBooks
  - 13 Maths Exam Answers For Grade 9 At Mpumalanga Public Domain eBooks
  - 13 Maths Exam Answers For Grade 9 At Mpumalanga eBook Subscription Services
  - 13 Maths Exam Answers For Grade 9 At Mpumalanga Budget-Friendly Options
- 6. Navigating 13 Maths Exam Answers For Grade 9 At Mpumalanga eBook Formats
  - ePub, PDF, MOBI, and More
  - 13 Maths Exam Answers For Grade 9 At Mpumalanga Compatibility with Devices
  - 13 Maths Exam Answers For Grade 9 At Mpumalanga Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 13 Maths Exam Answers For Grade 9 At Mpumalanga
  - Highlighting and Note-Taking 13 Maths Exam Answers For Grade 9 At Mpumalanga
  - Interactive Elements 13 Maths Exam Answers For Grade 9 At Mpumalanga
- 8. Staying Engaged with 13 Maths Exam Answers For Grade 9 At Mpumalanga
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 13 Maths Exam Answers For Grade 9 At Mpumalanga
- 9. Balancing eBooks and Physical Books 13 Maths Exam Answers For Grade 9 At Mpumalanga
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 13 Maths Exam Answers For Grade 9 At Mpumalanga
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 13 Maths Exam Answers For Grade 9 At Mpumalanga
  - Setting Reading Goals 13 Maths Exam Answers For Grade 9 At Mpumalanga
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 13 Maths Exam Answers For Grade 9 At Mpumalanga
  - Fact-Checking eBook Content of 13 Maths Exam Answers For Grade 9 At Mpumalanga



- 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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