

## 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)  
 [6]

### Question 3

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

(1)

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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**R Sandford**



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## **Table of Contents Grade 9 2013 Jun Ana Mathematics Paper**

1. Understanding the eBook Grade 9 2013 Jun Ana Mathematics Paper
  - The Rise of Digital Reading Grade 9 2013 Jun Ana Mathematics Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade 9 2013 Jun Ana Mathematics Paper
  - 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 2013 Jun Ana Mathematics Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 9 2013 Jun Ana Mathematics Paper
  - Personalized Recommendations
  - Grade 9 2013 Jun Ana Mathematics Paper User Reviews and Ratings
  - Grade 9 2013 Jun Ana Mathematics Paper and Bestseller Lists
5. Accessing Grade 9 2013 Jun Ana Mathematics Paper Free and Paid eBooks
  - Grade 9 2013 Jun Ana Mathematics Paper Public Domain eBooks
  - Grade 9 2013 Jun Ana Mathematics Paper eBook Subscription Services
  - Grade 9 2013 Jun Ana Mathematics Paper Budget-Friendly Options

6. Navigating Grade 9 2013 Jun Ana Mathematics Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Grade 9 2013 Jun Ana Mathematics Paper Compatibility with Devices
  - Grade 9 2013 Jun Ana Mathematics Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Grade 9 2013 Jun Ana Mathematics Paper
  - Highlighting and Note-Taking Grade 9 2013 Jun Ana Mathematics Paper
  - Interactive Elements Grade 9 2013 Jun Ana Mathematics Paper
8. Staying Engaged with Grade 9 2013 Jun Ana Mathematics Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Grade 9 2013 Jun Ana Mathematics Paper
9. Balancing eBooks and Physical Books Grade 9 2013 Jun Ana Mathematics Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Grade 9 2013 Jun Ana Mathematics Paper
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Grade 9 2013 Jun Ana Mathematics Paper
  - Setting Reading Goals Grade 9 2013 Jun Ana Mathematics Paper
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 9 2013 Jun Ana Mathematics Paper
  - Fact-Checking eBook Content of Grade 9 2013 Jun Ana Mathematics Paper
  - 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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