

## GRADE 10 MATHEMATICS MARCH TEST

### QUESTION 1

- 1.1 Copy and complete the following table on your answer sheet. Only tick in the applicable columns.

	N	N <sub>1</sub>	Z	Q	Q'	R	R'
$\sqrt{9} + 3$							
$\frac{1}{\frac{1}{2}}$							
$0,7(13)$							
$\sqrt{9}$							

- 1.2 Determine between which integers the following irrational number lies:

$$\sqrt{17}$$

- 1.3 Use the ladder method to give the prime factors of 5104.

$$5104 = 2^4 \times 11 \times 59$$

### QUESTION 2

Factorise the following expressions:

2.1  $x^2 - 49$

2.2  $2x^2 + 12x + 18$

2.3  $6x^2 - 12x + 6$

2.4  $3x^2 + 9x - 12$

### QUESTION 3

Simplify the following expressions:

3.1  $(x - 5)(3x + 2)$

3.2  $(x^2 + 2x + 1)(x - 1)$

3.3  $\frac{3x^2 + 6x}{3x}$

### QUESTION 4

Simplify the following using the exponential laws.

4.1  $\frac{1}{x^2}$

4.2  $\frac{1}{x^2} \times x^3$

Solve for  $x$ :

4.3  $2^x - 5 = 11$

### QUESTION 5

Solve for  $x$ :

5.1  $(x - 3)(x + 5) = 0$

5.2  $3x^2 + 12x + 12 = 0$

5.3  $\frac{1}{x} + \frac{1}{x+1} = \frac{1}{x+2}$

5.4  $\frac{3x+1}{x} - 5 > 0$

5.5 Solve  $x$  and  $y$  simultaneously:

$$x + y = 10$$

$$2x - y = 2$$

5.6 Jane is 3 years older than her sister. Together they are 19 years old.

$$J = S + 3$$

$$J + S = 19$$

### QUESTION 6

6.1 Use the following triangle to determine the trigonometric ratios:



6.1.1

6.1.2

6.1.3

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## **Table of Contents 2013 Maths Grade 10 March Common Question Paper**

1. Understanding the eBook 2013 Maths Grade 10 March Common Question Paper
  - The Rise of Digital Reading 2013 Maths Grade 10 March Common Question Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying 2013 Maths Grade 10 March Common Question 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 2013 Maths Grade 10 March Common Question Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from 2013 Maths Grade 10 March Common Question Paper
  - Personalized Recommendations
  - 2013 Maths Grade 10 March Common Question Paper User Reviews and Ratings
  - 2013 Maths Grade 10 March Common Question Paper and Bestseller Lists
5. Accessing 2013 Maths Grade 10 March Common Question Paper Free and Paid eBooks

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