

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.

(4)

	$\sqrt{2}$	$\sqrt{3}$	$\sqrt{5}$	$\sqrt{7}$	$\sqrt{10}$	$\sqrt{12}$	$\sqrt{15}$
$\sqrt{3} + \sqrt{2}$							
$\sqrt{5}$							
$\sqrt{10}$							
$\sqrt{7}$							

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

(2)

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

(5)

QUESTION 2

Factorise the following expressions:

2.1 $x^2 - 49$

(1)

2.2 $2x^2 - 12x + 10$

(2)

2.3 $4x^2 - 1$

(2)

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

(3)

QUESTION 3

Simplify the following expressions:

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

(2)

3.2 $\frac{1}{x} + \frac{1}{y}$

(2)

3.3 $\frac{5x^2 + 25x}{5x}$

(2)

QUESTION 4

Simplify the following using the exponential laws.

4.1 $\frac{1}{x^3}$

(1)

4.2 x^0

(2)

Solve for x :

4.3 $2^x - 5 = 11$

(2)

QUESTION 5

Solve for x :

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

(2)

5.2 $3x + 2 = 2x - 1$

(2)

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

(2)

5.4 $\frac{1+x}{x} + 5 > 8$

(2)

5.5 Solve x and y simultaneously:

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

(4)

(2)

QUESTION 6

- 6.1 Use the following triangle to determine the trigonometric ratios:



6.1.1

(2)

6.1.2

(2)

6.1.3

(2)

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Introduction to functions 3 2 Linear functions 3 3 Quadratic functions CHAPTER 4 TRIGONOMETRY 4 1 Degrees and Radians 4 2 Definition of the Trigonometric functions 4 3 Trigonometric functions 4 4 Sine and Cosine Rule 4 5 Trigonometric Ratios 4 6 Inverse Trigonometric functions CHAPTER 5 SETS 5 1 Sets CHAPTER 6 STATISTICS 6 1 Statistics 6 2 Mean Median Mode and Frequency diagrams 6 3 Probability CHAPTER 7 7 1 International system of units 7 2 Common errors 7 3 Review of fractions

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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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