

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 ₁	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 $3x^2 + 10x + 8 = 0$

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

2013 Maths Grade 10 March Common Question Paper

Linda Pound, Trisha Lee



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Teaching Mathematics Creatively Linda Pound, Trisha Lee, 2021-09-30 This revised and updated third edition offers a range of strategies activities and ideas to bring mathematics to life in the primary classroom Taking an innovative and playful approach to maths teaching this book promotes creativity as a key element of practice and offers ideas to help your students develop knowledge understanding and enjoyment of the subject In the creative classroom mathematics becomes a tool to build confidence develop problem solving skills and motivate children The fresh approaches explored in this book include a range of activities such as storytelling music and construction elevating maths learning beyond subject knowledge itself to enable students to see mathematics in a new way Key chapters of this book explore Learning maths outdoors make more noise make more mess or work on a larger scale Everyday maths making sense of the numbers patterns shapes and measures children see around them Music and maths the role of rhythm in learning and music and pattern in maths Stimulating accessible and underpinned by the latest research and theory this is essential reading for trainee and practising teachers who wish to embed creative approaches to maths teaching in their classroom *Prentice Hall Mathematics, Grade 10*, 2004

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