



GRADE 10 MATHEMATIC 5 MARCH TEST

QUESTION 1

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

	P	R	T	E	V	S	N
1.1.1							
1.1.2							
1.1.3							

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

$$\sqrt{25}$$

- 1.3 Use the ladder method to give the prime factors of 2184

(Show all your work on your answer sheet)

QUESTION 2

Factorise the following expressions:

2.1 $x^2 - 49$

2.2 $16x^2 + 24x + 9$

2.3 $9 - 4x^2$

2.4 $3x^2 + 9x + 6$

QUESTION 3

Simplify the following expressions:

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

3.2 9

3.3 $\frac{10^2 \times 10^3}{10^4}$

QUESTION 4

Simplify the following using the exponential laws:

4.1 $\frac{2^5}{2^3}$

4.2 $2^3 \times 2^4$

Solve for x :

4.3 $2^x - 5 = 11$

QUESTION 5

Solve for x :

5.1 $(x - 3)(x + 2) = 0$

5.2 $3(x + 2) = 12$

5.3 $\frac{1}{2}x + 3 = 10$

5.4 $\frac{1}{3}x + 5 = 8$

5.5 Solve x and y simultaneously:

$$x + y = 10$$

$$x - y = 2$$

5.6 Jane is 3 years older than her sister. Together they are 18 years old.

(Show all your work on your answer sheet)

QUESTION 6

6.1 Use the following triangle to determine the trigonometric ratios:



6.1.1

6.1.2

6.1.3

Mathematics Paper March 2014 Grade 12 Memorandum

J Rink



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Motivation for Learning and Performance Bobby Hoffman, 2015-06-20 Designed for educators researchers practitioners or anyone interested in maximizing human potential Motivation for Learning and Performance outlines 50 key motivation principles based on the latest scientific evidence from the disciplines of psychology education business athletics and neurology Using a highly applied and conversational style the book is designed to inform the reader about how to diagnosis analyze and mediate learning and performance challenges influenced by motivation The book features chapters on the biopsychology of motivation how motivation changes across the lifespan and the important influence of culture on motivated behavior Three chapters are devoted to practical strategies and the implementation of motivational change Special sections are included on enhancing motivation at work in the classroom in competitive environments and during online education Hoffman employs the innovative approach of using his interviews with real people including many notable personalities across diverse cultures and disciplines to illustrate motivated behavior For example readers will learn what motivated the colossal investment fraud masterminded by Bernie Madoff the intimate thoughts of former NFL superstar Nick Lowery when he missed a field goal and the joys and tribulations of Emmy nominated Curb your Enthusiasm actress Cheryl Hines The book provides a practical applied and multi disciplinary resource for anyone interested in motivation and performance but especially for university students at the graduate or undergraduate level studying education psychology business leadership hospitality sports management or military science Additionally the writing style and eclectic nature of the text will appeal to readers of non fiction who can use the book to gain self awareness to enhance performance of themselves or others Considers motivation for both learning and performance Identifies 50 foundational principles relating to motivation Provides research evidence supporting the foundational principles Includes interviews from famous individuals identifying what motivated them and why Includes research from psychology education neuroscience business and sports

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South African Schooling: The Enigma of Inequality Nic Spaull, Jonathan D. Jansen, 2019-11-05 This volume brings together many of South Africa's leading scholars of education and covers the full range of South African schooling from financing and policy reform to in depth discussions of literacy numeracy teacher development and curriculum change The book moves beyond a historical analysis and provides an inside view of the questions South African scholars are now grappling with Are there different and preferential equilibria we have not yet thought of or explored and if so what are they In practical terms how does one get to a more equitable distribution of teachers resources and learning outcomes While decidedly local these questions resonate throughout the developing world South Africa today is the most unequal country in the world The richest 10% of South Africans lay claim to 65% of national income and 90% of national wealth This is the largest 90/10 gap in the world and one that is reflected in the schooling system Two decades after apartheid it is still the case that the life chances of most South African children are determined not by their ability or the result of hard work and determination but instead by the colour of their skin the province of their birth and the wealth of their parents Looking back on almost three decades of democracy in South Africa it is this stubbornness of inequality and its patterns of persistence that demands explanation justification and analysis This is a landmark book on basic education in South Africa an essential volume for those interested in learning outcomes and their inequality in South Africa The various chapters present conceptually and empirically sophisticated analyses of learning outcomes across divisions of race class and place The book brings together the wealth of decades of research output from top quality researchers to explore what has improved what has not and why Prof Lant Pritchett Harvard University There is much wisdom in this collection from many of the best education analysts in South Africa No surprise that they conclude that without a large and sustained expansion in well trained teachers early childhood education and adequate school resources South Africa will continue to sacrifice its people's future to maintaining the privileges of the few Prof Martin Carnoy Stanford University Altogether one can derive from this very valuable volume if not an exact blueprint for the future then certainly at least a crucial and evidence based itinerary for the next few steps Dr Luis Crouch RTI

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