

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'	X	X'
$\sqrt{9} + 1$							
$\frac{5}{2}$							
0,75/3							
$\sqrt{5}$							

- 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.

Not to scale, not to be used for marking.

QUESTION 2

Factorise the following expressions:

2.1 $x^2 - 49$

2.2 $2x^2 + 5x - 3$

2.3 $6x^2 - 13x + 6$

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

QUESTION 3

Simplify the following expressions:

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

3.2 $6x^2 - 12x + 6$

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

QUESTION 4

Simplify the following using the exponential laws.

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

4.2 $\frac{x^3 \cdot x^2}{x^5}$

Solve for x :

4.3 $2^x - 5 = 11$

QUESTION 5

Solve for x :

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

5.2 $3x^2 + 10x + 7 = 0$

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

5.4 $\frac{x+2}{x} + 5 > 8$

5.5 Solve x and y simultaneously:

$$\begin{cases} x + y = 10 \\ x - y = 2 \end{cases}$$

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

Not to scale, not to be used for marking.

QUESTION 6

6.1 Use the following triangle to determine the trigonometric ratios:



6.1.1

6.1.2

6.1.3

Mathematics Memorandum Grade 10 Final Exam 2014

Ian Pickup



Mathematics Memorandum Grade 10 Final Exam 2014:

Official Gazette Philippines,2004 Resources in Education ,1988 **The Gambler and the Scholars** John F. Dooley,2023-04-05 In May 1917 William and Elizebeth Friedman were asked by the U S Army to begin training officers in cryptanalysis and to decrypt intercepted German diplomatic and military communications In June 1917 Herbert Yardley convinced the new head of the Army s Military Intelligence Division to create a code and cipher section for the Army with himself as its head These two seminal events were the beginning of modern American cryptology the growth of which culminated 35 years later with the creation of the National Security Agency Each running their own cryptologic agencies in the 1920s the Friedman Yardley relationship was shattered after Yardley published a tell all book about his time in military intelligence Yet in the end the work they all started in 1917 led directly to the modern American intelligence community As they got older they became increasingly irrelevant in the burgeoning American cryptologic fraternity Topics and features Examines the lives of three remarkable and pioneering cryptologists Offers fascinating insights into spies codes and ciphers rumrunners poker and military history Sheds new light on interesting parts of the cryptologists careers especially Elizebeth Friedman whose work during World War II has just begun to be explored Recounts several good stories i e What if the Friedmans had gone to work for Herbert Yardley in his new Cipher Bureau in 1919 What if Yardley had moved back to Washington to work for William Friedman a decade later This enjoyable book has wide appeal for general readers interested in the evolution of American cryptology American historians particularly of World War I the inter war period and World War II signals intelligence and historians of and general readers interested in American military intelligence It also can be used as an auxiliary text or recommended reading in introductory or survey courses in history or on the related topics **Keys**

unlocking maths Andrea Morgan,2016 **Cracking the MCAS.** Jeff Rubenstein,Princeton Review (Firm),2001-03-13 The Princeton Review realizes that acing the MCAS Grade 10 Math exam is very different from getting straight As in school TPR doesn t try to teach students everything there is to know about math only what they ll need to score higher on the exam There s a big difference In Cracking the MCAS Grade 10 Math The Princeton Review will teach test takers how to think like the test makers and Raise scores by using techniques such as the two pass system Ballparking and Process of Elimination Get students familiar with the test format so they won t be surprised on the test day Score higher by knowing in advance what will be on the test Learn problem solving skills that are designed to help test takers ace the MCAS Grade 10 Math exam This book includes 2 full length simulated MCAS Grade 10 Math exams The questions are just like the ones test takers will see on the actual exam and The Princeton Review fully explains every solution Contents Include Introduction to the MCAS Exams Structure and Strategies II Subject Review Number Sense Geometry and Measurement Patterns Relations and Functions Statistics and Probability Solutions and Exercises III The Princeton Review Practice Tests *Mathematics and Mathematical Literacy* South Africa. Department of Education,2007 **Oklahoma Acadmeic Standards in Grade 5 Mathematics**

American Book Company,2014

Mathematics Memorandum Grade 10 Final Exam 2014 Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Mathematics Memorandum Grade 10 Final Exam 2014**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall affect readers.

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