

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.

$$5104 = 2^4 \times 11 \times 29$$

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 $\frac{3x^2 + 12x}{3x}$

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.

$$\begin{cases} J = S + 3 \\ J + S = 19 \end{cases}$$

QUESTION 6

6.1 Use the following triangle to determine the trigonometric ratios:



6.1.1

6.1.2

6.1.3

March 2mathematics Paper Memorandum

Lowell H. Harrison



March 2mathematics Paper Memorandum:

How We Teach Science John L. Rudolph, 2019-06-01 A former Wisconsin high school science teacher makes the case that how and why we teach science matters especially now that its legitimacy is under attack Why teach science The answer to that question will determine how it is taught Yet despite the enduring belief in this country that science should be taught there has been no enduring consensus about how or why This is especially true when it comes to teaching scientific process Nearly all of the basic knowledge we have about the world is rock solid The science we teach in high schools in particular laws of motion the structure of the atom cell division DNA replication the universal speed limit of light is accepted as the way nature works Everyone also agrees that students and the public more generally should understand the methods used to gain this knowledge But what exactly is the scientific method Ever since the late 1800s scientists and science educators have grappled with that question Through the years they've advanced an assortment of strategies ranging from the laboratory method to the five step method to science as inquiry to no method at all How We Teach Science reveals that each strategy was influenced by the intellectual cultural and political circumstances of the time In some eras learning about experimentation and scientific inquiry was seen to contribute to an individual's intellectual and moral improvement while in others it was viewed as a way to minimize public interference in institutional science John Rudolph shows that how we think about and teach science will either sustain or thwart future innovation and ultimately determine how science is perceived and received by the public

Memorandum Rand Corporation, 1964 *Memorandum -*, 1963 *Linear Programming and Extensions* George B. Dantzig, 2016-08-10 The influential book that established the mathematical discipline of linear programming In the worlds of finance business and management mathematicians and economists frequently encounter problems of optimization In this classic book George Dantzig shows how the methods of linear programming can provide solutions Drawing on a wealth of examples he introduces the basic theory of linear inequalities and describes the powerful simplex method used to solve them He discusses the price concept the transportation problem and matrix methods and covers key mathematical concepts such as the properties of convex sets and linear vector spaces Dantzig demonstrates how linear programming can be applied to a host of optimization problems from minimizing traffic congestion to maximizing the scheduling of airline flights An invaluable resource for students and practitioners alike *Linear Programming and Extensions* is an extraordinary account of the development and uses of this versatile mathematical technique blending foundational research in mathematical theory with computation economic analysis and applications to industrial problems

Catalogue of Publications Issued by the Government of the United States United States. Superintendent of Documents, 1948 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index

Harvey Friedman's Research on the Foundations of Mathematics L.A. Harrington, M.D. Morley, A. Šcedrov, S.G. Simpson, 1985-11-01 This volume

discusses various aspects of Harvey Friedman's research in the foundations of mathematics over the past fifteen years. It should appeal to a wide audience of mathematicians, computer scientists, and mathematically oriented philosophers.

Research Memorandum, 1947 **Western Kentucky University** Lowell H. Harrison, 2021-12-14 Most Hilltoppers believe that Western Kentucky University is unique. They take pride in its lovely campus, its friendly spirit, the loyalty of its alumni, and its academic and athletic achievements. But Western's development also illustrates a major trend in American higher education during the past century. Scores of other institutions have followed the Western pattern, growing from private normal school to state normal school to teachers college to general college, finally emerging as an important state university. Historian Lowell Harrison traces the Western story from the school's origin in 1875 to the January 1986 election of its seventh president. For much of its history, Western has been led by paternalistic presidents whose major battles have been with other state schools and parsimonious legislatures. In recent years, the presidents have been challenged by students and faculty who have demanded more active roles in university governance, and by a Board of Regents and the Council on Higher Education, which have raised challenging new issues. Harrison's account of the institution's development is laced with anecdotes and vignettes of some of the school's interesting personalities: President Henry Hardin Cherry, whose chapel talks convinced countless students that the Spirit Makes the Master; Uncle Ed Diddle, whose flying towel and winning teams earned national basketball fame; Daddy Burton, who could catch flies while lecturing; Miss Gabie Robertson, who held students into the next class period; the lone Japanese student who was on campus during World War II. Harrison also recalls steamboat excursions, the Great Depression, and the Second World War, the astounding boom in enrollment and buildings in the 1960s, the period of student unrest, and the numerous fiscal crises that have beset the school. This is the story of an institution proud of its past and seeking to chart its course into the twenty-first century. **United States Government Publications**
Monthly Catalog, 1948 **British Books**, 1915

Reviewing **March 2mathematics Paper Memorandum**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**March 2mathematics Paper Memorandum**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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