

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

Maths Paper 2march Grade 12

IM Harris



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Resources in Education ,2001-10 *Handbook of Research on Mathematics Teaching and Learning* Douglas Grouws,2006-11-01 Sponsored by the National Council of Teachers of Mathematics and written by leading experts in the field of mathematics education the Handbook is specifically designed to make important vital scholarship accessible to mathematics education professors graduate students educational researchers staff development directors curriculum supervisors and teachers The Handbook provides a framework for understanding the evolution of the mathematics education research field against the backdrop of well established conceptual historical theoretical and methodological perspectives It is an indispensable working tool for everyone interested in pursuing research in mathematics education as the references for each of the Handbook s twenty nine chapters are complete resources for both current and past work in that particular area

Paper Qualification Syndrome (PQS) and Unemployment of School Leavers John Oxenham,1982 **Commonwealth Universities Yearbook** ,1980 A directory to the universities of the Commonwealth and the handbook of their association

Teaching for Numeracy Across the Age Range Peter Stuart Westwood,2021-08-10 This book provides an introduction to what it means to be numerate and how numeracy can best be developed and nurtured in children and in adults It also presents a cohesive coverage of numeracy development from early childhood to adulthood This book draws on international research and practice to provide a comprehensive overview on the topic It depicts and draws connections with the National Curriculum in the United Kingdom the Australian Curriculum and the Common Core State Standards in the United States This book identifies skills and concepts involved in achieving functional numeracy and provides practical advice on effective teaching learning and assessment It serves as a valuable guide to educators who teach mathematics in primary and secondary schools but who are not specifically trained in the subject **Corporate DNA** Arnold Kransdorff,2017-05-15 For more than half a century the developed world has been chasing productivity It s financed our wealth but that part of output on which our continued prosperity depends productivity growth is petering out The traditional scapegoat has been the dearth of worker skills But the worker skills base has never been higher The other explanation is that it is managers who are not giving full value to their employers The way they re making decisions is conferring virtually no upside potential which means they re leaving us wide open for experience poor competitors to step into our experience rich shoes Exactly as Japan did in the 1960s and the so called BRICK countries Brazil Russia India China especially China and Korea are threatening now If creeping uncompetitiveness is not to overtake us from where are the next round of productivity gains to come from Identifying some gaping holes in the way managers are taught to manage this book outlines both the size of the problem and a solution Businesses and other organizations the author says have to substantially raise the quality of their decision making For this to happen they need to be much better experiential learners And for experiential learning to take place companies and other institutions have to better manage their corporate DNA the institution specific experiences otherwise known as

Organizational Memory OM which characterizes any organization's ability to perform is the single biggest influence on decision making excellence. It is a factor of production that has already been paid for at great expense yet is readily discarded in the backwash of the biggest change in workplace practice for more than a century: the actively encouraged flexible labour market. Corporate DNA explains why this key component of intellectual capital should be better managed, can be better managed, and particularly how it can be used to help organizations reduce the pandemic of repeated mistakes. **New Scientist**, 1996

Maths June Highton, 2004. Comprising three Worksheet Packs and a textbook, this title is useful for the Adult Numeracy Curriculum covering Entry Levels 1, 2 and 3 and Levels 1 and 2. All topics are clearly labelled with a curriculum reference to assist with planning. **Complete Book of Colleges, 2005 Edition** Princeton Review (Firm), 2004-07-20. Up to date information on 1,780 colleges and universities.

International Perspectives on Gender and Mathematics Education Olof Steinthorsdottir, Helen J. Forgasz, Joanne Rossi Becker, Kyeonghwa Lee, 2010-06-01. Why a book on gender issues in mathematics in the 21st century? Several factors have influenced the undertaking of this project by the editors. First, an international volume focusing on gender and mathematics has not appeared since publication of papers emerging from the 1996 International Congress on Mathematical Education. Keitel, 1998. Surely it was time for an updated look at this critical area of mathematics education. Second, we have had lively discussion and working groups on gender issues at conferences of the International Group for the Psychology of Mathematics Education (PME) for the past four years, sessions at which stimulating and ground-breaking research has been discussed by participants from many different countries. Some publication seemed essential to share this new knowledge emerging from a wider variety of countries and from different cultural perspectives. Third, some western countries such as Australia and the USA have experienced in recent years a focus on the boy problem with an underlying assumption that issues of females and mathematics have been solved and are no longer worthy of interest. Thus it seemed timely to look more closely at the issue of gender and mathematics internationally. When the idea for this volume first emerged, invitations were issued to those regularly attending the working and discussion groups at PME. Potential authors were charged to focus on gender issues in mathematics and were given wide scope to hone in on the issues that were central to their own research efforts or were in receipt of or in need of close attention in their own national or regional contexts. **Editor & Publisher**, 1927. The fourth estate.

Pratiyogita Darpan, 2008-04. Pratiyogita Darpan, monthly magazine, is India's largest read. General Knowledge and Current Affairs Magazine. Pratiyogita Darpan English monthly magazine is known for quality content on General Knowledge and Current Affairs. Topics ranging from national and international news, issues, personality development, interviews of examination toppers, articles, write-ups on topics like career, economy, history, public administration, geography, polity, social environment, scientific, legal, etc., solved papers of various examinations, Essay and debate, contest, Quiz and knowledge testing features are covered every month in this magazine. **Engineering Journal**, 1928. **Cambridge University Reporter** University of Cambridge, 1967.

Backpacker ,2007-09 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured *Teaching Community School Mathematics* Barbara Miller-Souviney,1981 New Scientist and Science Journal ,1995 *The Engineer* ,1920 *Atlanta Magazine* ,2005-01 Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region **The Schoolmasters Yearbook and Directory** ,1908

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web the easiest colors to observe during the flame test were that of copper chloride and lithium chloride for potassium chloride there was a purple color close to the stick but the flame remained orange for the majority of the burn time the unknown slat burned orange but also had a slight blue color close to the stick

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web use crayons or colored pencils to color in the spectrum in the box on your report sheet to show the correlation between color and wavelength part ii flame tests you will conduct flame tests to observe the flame emission colors for the following solutions lino3 cu no3 2 sr no3 2 ba no3 2 kno3 and nano3 since nitrates do not emit color you

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web energy and matter answered worksheet the experiment conducted aimed to give students the opportunity to determine different metal ions in liquid and solid compounds by observing the color of the flames they give off when

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web sep 22 2021 pre laboratory assignment flame tests of metal cations in this lab you will perform flame tests of several different metal cations the characteristic colors observed are due to emitted electromagnetic radiation from the excited metal cations in this lab how do the metal cations become excited

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web feb 10 2021 section 1 purpose and summary observe the color of light emitted when a sample of a salt of a metal cation is heated use the characteristic color of flames to identify ions in various laboratory samples observe the emission spectra of various elements in gas discharge tubes

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web 25 october 2022 objective experiment 1 to show how flame test can be used to identify some metals ion 2 to identify some unknown metal ions using flame test introduction the arrangement of electrons around the nucleus of the atom is

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flame flame intensity flame duration wavelength nm color low medium high seconds bacl₂ yellow to orond 597 high 13 sec
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