

**GRADE 9 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1**

QUESTION 1

Choose and write the correct letter on your answer sheet.

1.1 The constant value in the expression $2x^2 + 3x + 2$ is _____ (3)

- A 3
B 2
C 4
D 5

1.2 How many terms are in the expression $2x^2 + 3x + 2$? _____ (3)

- A 1
B 2
C 3
D 4

1.3 Determine the following two terms in the sequence: _____ (3)

- A 48; 56
B 48; 57
C 47; 56
D 47; 57

1.4 Prime numbers that lie between 8 and 22: _____ (3)

- A 11, 13, 17, 19, 23
B 11, 17, 19, 23
C 11, 13, 17, 19
D 11, 17, 19, 23

1.5 $\sqrt{324}$ is _____ (3)

- A 18
B 74
C 18 and 74
D 18

1.6 If $x = 2$, the value of $3x^2 + 4x$ would be: _____ (3)

- A 10
B 12
C 14
D 16

6 x 1 = 6

QUESTION 2: WHOLE NUMBERS & INTEGERS

2.1 Write 345:15 in it's simplest form. _____ (2)

2.2 If 10 contractors can build a house in 10 days. How many contractors, working at the same rate, will be needed to build the house in 4 days? _____ (3)

2.3 John drove 620km in 5 and a half hours. Calculate his average speed in km/h. _____ (3)

2.4 Write the number 48 in its prime factorised form. Write the prime factors in exponential form. _____ (4)

2.5 Calculate the following:

- 2.5.1 $2 \times 10^3 + 3 \times 10^2$ _____ (3)
2.5.2 $2 \times 10^3 + 3 \times 10^2$ _____ (3)
[16]

QUESTION 3: EXPONENTS

3.1 $5^2 \times \sqrt{5} + 5^2$ _____ (2)

3.2 $5^2 \times 5^3$ _____ (2)

3.3 $\frac{5^2}{5^3}$ _____ (3)

3.4 $\sqrt{5^2} \times 5^3$ _____ (3)
[10]

General Mathematics Paper Nov Dec 2009

Brian D Miller



General Mathematics Paper Nov Dec 2009:

Assessment Methods in Statistical Education Penelope Bidgood, Neville Hunt, Flavia Jolliffe, 2010-03-10 Assessment Methods in Statistical Education An International Perspective provides a modern international perspective on assessing students of statistics in higher education It is a collection of contributions written by some of the leading figures in statistical education from around the world drawing on their personal teaching experience and educational research The book reflects the wide variety of disciplines such as business psychology and the health sciences which include statistics teaching and assessment The authors acknowledge the increasingly important role of technology in assessment whether it be using the internet for accessing information and data sources or using software to construct and manage individualised or online assessments Key Features Presents successful assessment strategies striking a balance between formative and summative assessment individual and group work take away assignments and supervised tests Assesses statistical thinking by questioning students ability to interpret and communicate the results of their analysis Relates assessment to the real world by basing it on real data in an appropriate context Provides a range of individualised assessment methods including those that deter plagiarism and collusion by providing each student with a unique problem to solve or dataset to analyse This book is essential reading for anyone involved in teaching statistics at tertiary level or interested in statistical education research

Proceedings Of The International Congress Of Mathematicians 2010 (Icm 2010) (In 4 Volumes) - Vol. I: Plenary Lectures And Ceremonies, Vols. Ii-iv: Invited Lectures Rajendra Bhatia, Arup Pal, G Rangarajan, V Srinivas, M Vanninathan, 2011-06-06 ICM 2010 proceedings comprises a four volume set containing articles based on plenary lectures and invited section lectures the Abel and Noether lectures as well as contributions based on lectures delivered by the recipients of the Fields Medal the Nevanlinna and Chern Prizes The first volume will also contain the speeches at the opening and closing ceremonies and other highlights of the Congress [Proceedings of the International Congress of Mathematicians](#) Rajendra Bhatia, Arup Pal, 2010 ICM 2010 proceedings comprise a four volume set containing articles based on plenary lectures and invited section lectures the Abel and Noether lectures as well as contributions based on lectures delivered by the recipients of the Fields Medal the Nevanlinna and Chern Prizes The first volume will also contain the speeches at the opening and closing ceremonies and other highlights of the Congress *Above the Fold* Brian D Miller, 2011-02-15 This is a different kind of web design book Above the Fold is not about timely design or technology trends instead this book is about the timeless fundamentals of effective communication within the context of web design It is intended to help you the reader understand the considerations that web designers make when developing successful websites Above the Fold is divided into three sections Design Typography Planning Usability Business Value Each section represents a phase in the continuous cycle of web design It s the balance among design usability and return on investment that makes a website truly great Topics covered in Above the Fold include What makes web design unique The history of web design Anatomy of a web page White space and grid use in web design

The elements of web design color texture imagery scale depth animation and variability Web typography including web safe type images of type and font replacement and embedding Web project planning Information architecture including site maps wireframes and user flow diagrams The elements of usability navigation breadcrumbs links search submission forms and error messaging Search engine optimization Online marketing including banner ads viral and social marketing on site marketing and email marketing Web statistics and analysis

Daily Graphic Ransford Tetteh, 2008-12 *Computer Mathematics* Ruyong Feng, Wen-shin Lee, Yosuke Sato, 2014-09-30 This book covers original research and the latest advances in symbolic algebraic and geometric computation computational methods for differential and difference equations symbolic numerical computation mathematics software design and implementation and scientific and engineering applications based on features invited talks special sessions and contributed papers presented at the 9th in Fukuoka Japan in 2009 and 10th in Beijing China in 2012 Asian Symposium on Computer Mathematics ASCM Thirty selected and refereed articles in the book present the conference participants ideas and views on researching mathematics using computers

Martin Gardner in the Twenty-First Century Michael Henle, 2012-12-31 Martin Gardner enormously expanded the field of recreational mathematics with the Mathematical Games columns he wrote for Scientific American for over 25 years and the more than 70 books he published He also had a long relationship with the Mathematical Association of America publishing articles in MAA journals right up to his death in 2010 This book collects the articles Gardner wrote for the MAA in the twenty first century together with other articles the MAA published from 1999 to 2012 that spring from and comment on his work

Rediscovering Fire Guinevere Liberty Nell, 2010 The experiment with socialism in the Soviet Union was based on Marxist economic theory which denied the universal nature of economic law The economy became a blank slate without markets prices even without money for a time Government had to rediscover fire learning basics of economics over again This historical laboratory of social science should be exploited for the lessons in basic economics that it offers Many view Lenin as a dictator who exploited the peoples of the Soviet Union betraying the hopes and dreams of socialism for his own benefit Yet Lenin wrote hundreds of books on Marxist theory and the policies he enacted were those he promised Despite the wealth of information available on the Soviet experiment few have closely analyzed why it produced results different from those intended and what these lessons might mean for market economies Based on Marxist economic theory which denied the universality of economic laws the Soviet Union wiped out the market and with it the basis for all economic knowledge In this vacuum of economic information planners had neither market theory nor prices to guide them The socialist experiment was truly an experiment in eliminating the market The Bolsheviks enacted policies based on Marxist hypotheses nationalizing businesses and banks setting wages according to the labor theory of value eliminating interest and capital markets and planning full employment When each Marxist policy failed the state reorganized to better implement it tried modified versions and only pulled back as a last resort In this book Guinevere Nell explores the theory and experience of the socialist experiment In each chapter she

considers one theory put forth by socialists She explores the ways in which the Soviet planners implemented this theory recognized that their policies were not producing the desired results and tried to implement reforms to combat the failures In each chapter she extracts certain lessons from the experience of the planners The lessons capture the dynamic nature of the economy something that is commonly overlooked by mainstream economists and policymakers although it has been a focus of the Austrian school of economics Insights from the debate between socialists and Austrian economists are introduced during the discussion of the lessons at the end of each chapter The lessons suggest that due the dynamic nature of the market the Soviet Union could never surpass the West in economic growth Each chapter concludes with policy examples and discussion of how the lesson can inform policies that market economies are considering All policy examples are from current U S policy debate The last lesson ties together the thrust of many disparate threads throughout the book It makes the case that the socialist arguments were aimed at the wrong target which is why the prescription of planning led to the opposite of what was intended The conclusion of the book summarizes the recurring themes of reform These lessons have relevance for all economies and for both economists and the policy minded citizen For example the socialist elimination of competition provides insight into the neoclassical framework and sheds light on our common understanding of how competitive certain industries are The book is intended for the educated layperson but should also be accessible and relevant to college students and professional economists The book is written in plain language with all economic terms defined

Conflict in History, Measuring Symmetry, Thermodynamic Modeling and Other Work Dennis Glenn Collins, 2011-11-23 This book should revolutionize the study of history symmetry and economic modeling History is dominated by one pattern over different scales symmetry is based on counting the number of pairs of equal distances and social science extends from Josiah Willard Gibbs thermodynamic models

Quaternion and Clifford Fourier Transforms Eckhard Hitzer, 2021-09-21 Quaternion and Clifford Fourier Transforms describes the development of quaternion and Clifford Fourier transforms in Clifford geometric algebra over the last 30 years It is the first comprehensive self contained book covering this vibrant new area of pure and applied mathematics in depth The book begins with a historic overview followed by chapters on Clifford and quaternion algebra and geometric vector differential calculus part of Clifford analysis The core of the book consists of one chapter on quaternion Fourier transforms and one on Clifford Fourier transforms These core chapters and their sections on more special topics are reasonably self contained so that readers already somewhat familiar with quaternions and Clifford algebra will hopefully be able to begin reading directly in the chapter and section of their particular interest without frequently needing to skip back and forth The topics covered are of fundamental interest to pure and applied mathematicians physicists and engineers signal and color image processing electrical engineering computer science computer graphics artificial intelligence geographic information science aero space engineering navigation etc Features Intuitive real geometric approach to higher dimensional Fourier transformations A comprehensive reference suitable for graduate students and

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