

**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 as a product of its prime factors. 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]

Mathematics Caps Paper 1 November 2013

H Kauffman



Mathematics Caps Paper 1 November 2013:

A Mind at Play Jimmy Soni, Rob Goodman, 2017-07-18 Winner of the Neumann Prize for the History of Mathematics We owe Claude Shannon a lot and Soni Goodman's book takes a big first step in paying that debt San Francisco Review of Books Soni and Goodman are at their best when they invoke the wonder an idea can instill They summon the right level of awe while stopping short of hyperbole Financial Times Jimmy Soni and Rob Goodman make a convincing case for their subtitle while reminding us that Shannon never made this claim himself The Wall Street Journal A charming account of one of the twentieth century's most distinguished scientists Readers will enjoy this portrait of a modern day Da Vinci Fortune In their second collaboration biographers Jimmy Soni and Rob Goodman present the story of Claude Shannon one of the foremost intellects of the twentieth century and the architect of the Information Age whose insights stand behind every computer built email sent video streamed and webpage loaded Claude Shannon was a groundbreaking polymath a brilliant tinkerer and a digital pioneer He constructed the first wearable computer outfoxed Vegas casinos and built juggling robots He also wrote the seminal text of the digital revolution which has been called the Magna Carta of the Information Age In this elegantly written exhaustively researched biography Soni and Goodman reveal Claude Shannon's full story for the first time With unique access to Shannon's family and friends A Mind at Play brings this singular innovator and always playful genius to life

Leading Change in Teacher Education Thuwayba Al Barwani, Maria Assunção Flores, David Imig, 2018-12-12 The international attempt to expand schooling despite dealing with an insufficient number of trained teachers has placed significant pressure on teacher education Continued effort to change all aspects of teacher education including ways of learning methods of practice institution interaction and assessment of teaching ability in order to fulfil the desire to offer inclusive and equitable teaching for all is a serious consideration In response to this increased attention on cross national campaigns Leading Change in Teacher Education features discussions covering what has been done how and why the change has happened the journey itself and the challenges encountered along the way alongside contributions from international academics who share their reflections and suggestions for a way forward despite a global shortage of teachers Strategies surrounding the design and delivery of education now centre on improving how teachers are prepared supported and evaluated Leading Change in Teacher Education captures the stories of international change leaders by Providing details of both the successes and challenges faced Presenting innovative practices in teacher education from around the world Describing the strategies put in place to ensure that teacher education is developing The topics discussed are relevant for educators policymakers and international organizations involved in the design and implementation of programmes in teacher education Leading Change in Teacher Education is also an invaluable resource for those looking to increase the changes occurring within teacher education

Forever Finite Kip K. Sewell, 2023-08-01 INFINITY IS NOT WHAT IT SEEMS Infinity is commonly assumed to be a logical concept reliable for conducting mathematics describing the Universe and understanding

the divine Most of us are educated to take for granted that there exist infinite sets of numbers that lines contain an infinite number of points that space is infinite in expanse that time has an infinite succession of events that possibilities are infinite in quantity and over half of the world's population believes in a divine Creator infinite in knowledge power and benevolence According to this treatise such assumptions are mistaken In reality to be is to be finite The implications of this assessment are profound the Universe and even God must necessarily be finite The author makes a compelling case against infinity refuting its most prominent advocates Any defense of the infinite will find it challenging to answer the arguments laid out in this book But regardless of the reader's position Forever Finite offers plenty of thought provoking material for anyone interested in the subject of infinity from the perspectives of philosophy mathematics science and theology

Telecommunication Network Economics Patrick Maillé, Bruno Tuffin, 2014-02-27 Presenting a balance of theory and practice this up to date guide provides a comprehensive overview of the key issues in telecommunication network economics as well as the mathematical models behind the solutions These mathematical foundations enable the reader to understand the economic issues arising at this pivotal time in network economics from business research and political perspectives This is followed by a unique practical guide to current topics including app stores volume based pricing auctions for advertisements search engine business models the network neutrality debate the relationship between mobile operators and mobile virtual network operators and the economics of security The guide discusses all types of players in telecommunications from users to access and transit network providers to service providers including search engines cloud providers or content delivery networks to content providers and regulatory bodies Ideal for graduate students researchers and industry practitioners working in telecommunications

Pedagogy in Poverty Ursula Hoadley, 2017-08-09 As South Africa transitioned from apartheid to democracy changes in the political landscape as well as educational agendas and discourse on both a national and international level shaped successive waves of curriculum reform over a relatively short period of time Using South Africa as a germane example of how curriculum and pedagogy can interact and affect educational outcomes Pedagogy in Poverty explores the potential of curricula to improve education in developing and emerging economies worldwide and ultimately to reduce inequality Incorporating detailed empirical accounts of life inside South African classrooms this book is a much needed contribution to international debate surrounding optimal curriculum and pedagogic forms for children in poor schools Classroom level responses to curriculum policy reforms reveal some implications of the shifts between a radical progressive approach and traditional curriculum forms Hoadley focuses on the crucial role of teachers as mediators between curriculum and pedagogy and explores key issues related to teacher knowledge by examining the teaching of reading and numeracy at the foundational levels of schooling Offering a data rich historical sociology of curriculum and pedagogic change this book will appeal to academics researchers and postgraduate students in the fields of education sociology of education curriculum studies educational equality and school reform and the policy and

politics of education *Self-Directed Learning for the 21st Century: Implications for Higher Education* Elsa Mentz,Josef de Beer,Roxanne Bailey,Per B. Bergamin,Chantelle Bosch,Adri du Toit,Roelien Goede,Aubrey Golightly,David W. Johnson,Roger T. Johnson,Corné Kruger,Dorothy Laubscher,Anitia Lubbe,Jako Olivier,Christo van der Westhuizen,Sukie van Zyl,2019-12-12 This book is devoted to scholarship in the field of self directed learning in the 21st century with specific reference to higher education The target audience of the book includes scholars in the field of self directed learning and higher education The book contributes to the discourse on the quality of education in the 21st century and adds to the body of scholarship in terms of self directed learning and specifically its role in higher education Although all the chapters in the book directly address self directed learning the different foci and viewpoints raised make the book a rich knowledge bank of work on self directed learning

Competition and Cooperation in Economics and Business Lindawati Gani,Beta Yulianita Gitaharie,Zaäfri Husodo,Ari Kuncoro,2017-10-12 Asia and the Pacific have become the growth engine of the world economy with the contribution of two third of the global growth The book discusses current issues in economics business and accounting in which economic agents as individuals entrepreneurs and professionals as well as countries in the Asia and Pacific regions compete and collaborate with each other and with the rest of the globe Areas covered in the book include economic development and sustainability labor market competition Islamic economic and business marketing finance accounting standard compliances and taxation It will help shed light on what business and economic scholars in regions have done in terms of research and knowledge development as well as the new frontiers of research that have been explored and opening up This is an Open Access ebook and can be found on www.taylorfrancis.com

[Drawing for Science Education](#) Phyllis Katz,2017-03-23 This book argues for the essential use of drawing as a tool for science teaching and learning The authors are working in schools universities and continual science learning CSL settings around the world They have written of their experiences using a variety of prompts to encourage people to take pen to paper and draw their thinking sometimes direct observation and in other instances their memories The result is a collection of research and essays that offer theory techniques outcomes and models for the reader Young children have provided evidence of the perceptions that they have accumulated from families and the media before they reach classrooms Secondary students describe their ideas of chemistry and physics Teacher educators use drawings to consider the progress of their undergraduates understanding of science teaching and even their moral ethical responses to teaching about climate change Museum visitors have drawn their understanding of the physics of how exhibit sounds are transmitted A physician explains how the history of drawing has been a critical tool to medical education and doctor patient communications Each chapter contains samples insights and where applicable analysis techniques The chapters in this book should be helpful to researchers and teachers alike across the teaching and learning continuum The sections are divided by the kinds of activities for which drawing has historically been used in science education An instance of observation Audubon Linnaeus A process how plants grow over time what happens

when chemicals combine Conceptions of what science is and who does it Images of identity development in science teaching and learning

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