

GRADE 11 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1

QUESTION 1

- 1.1 Solve for x :
- 1.1.1 $x^2 - 5x - 6 = 0$ (2)
- 1.1.2 $(2x - 3)(x + 1) = 9$ (3)
- 1.1.3 $x - \sqrt{x - 1} = 3$ (4)
- 1.1.4 $x(x + 18) > -25$ (4)
- 1.1.5 $x^{\frac{1}{2}} = 4$ (3)
- 1.1.6 $2^{2x} - 2^{x+1} = 12$ (4)
- 1.2 Simultaneously solve x and y :
- $2x - y = 1$ and $3x^2 - 4xy + y^2 = 0$ (5)
- 1.3 Solve the following inequalities:
- 1.3.1 $x^2 + 5x - 6 > 0$ (3)
- 1.3.2 $-3(x + 1)(x - 2) < 0$ (3)
- (P1)**

QUESTION 2

- 2.1 $x = -3 \pm 2\sqrt{2}$ are the roots of a quadratic function, $f(x)$, of which the y -intercept is 4. Determine $f(x)$. (5)
- 2.2 Given: $g(x) = \frac{x^2 - 2x + 1}{x - 1}$
- 2.2.1 For which values of x will $g(x)$ be undefined? (2)
- 2.2.2 Explain why $g(x)$ will never equal zero. (Show all your calculations). (3)
- 2.3 Solve x if: $\frac{2-x}{x+1} < 0$. Graphically represent your answer. (5)

- 2.4 Simplify and leave an answer with positive exponents only:

$$\frac{\sqrt[3]{x^2 y^{2x+1}}}{x^{2x+1} y^2} \quad (4)$$

- 2.5 Without solving the equation, determine the nature of the roots of: $4x^2 = 2x + 1$. (5)
- (P4)**

QUESTION 3

- 3.1 The first three terms of a linear series, is given as: $3x - 2$, $x + 1$, $2x + 5$
- 3.1.1 Determine the value of x . (3)
- 3.1.2 Determine the numerical value of T_5 . (2)
- 3.2 Given the quadratic series: $-120, -94, -68, -20, \dots$
- 3.2.1 Determine the next two terms of the series. (2)
- 3.2.1 Determine T_n , the general term of the pattern. (3)
- 3.2.3 Given that $T_n = -4n^2 + 56n - 180$, determine the largest possible numerical value for T_n . (4)
- 3.3 Given $T_n = 13 - 3n$:
- 3.3.1 Which term in the series would be equal to -179 . (3)
- 3.3.2 Determine the numerical value for the 11th term. (2)

- 3.4 James and John look at the following patterns:

Pattern 1	Pattern 2	Pattern 3
		
		
		

James says if he increases the pattern number by one, square that number and then subtract the pattern number increased by one he will get the general formula.

John says he can derive the general formula for the number of blocks by taking the number of columns in each pattern and multiplying it by the number of rows.

- Who is correct between James and John? Prove your answer. (5)
- (P4)**

QUESTION 4

Given: $f(x) = \frac{x^2}{x+1} - 1$ and $g(x) = -x^2$. The point $(1, -3)$ lies on g .

- 4.1 Determine the value of x . (2)
- 4.2 Draw a neat sketch of the two graphs on the same axis. Show all intercepts with the axes and asymptote clearly. (5)
- 4.3 Determine the axis of symmetry of f that has a positive gradient. (2)
- (P1)**

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H Kauffman



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Proceedings of the 3rd International Conference on Cognitive Based Information Processing and Applications-Volume 1 Bernard J. Jansen, Qingyuan Zhou, Jun Ye, 2024-06-01 This book contains papers presented at the 3rd International Conference on Cognitive based Information Processing and Applications CIPA in Changzhou China from November 23 2023 The papers represent the various technological advancements in theory technology and application of artificial intelligence including precision mining intelligent computing deep learning and all other theories models and technologies related to artificial intelligence It caters to postgraduate students researchers and practitioners specializing and working in the area of cognitive inspired computing and intelligent computing The book represents Volume 1 for this conference proceedings which consists of a 3 volume book series Psychology and Mathematics Education Gila Hanna, Laura Macchi, Karin Binder, Laura Martignon, Katharina Loibl, 2023-09-05 Modern Mathematics is constructed rigorously through proofs based on truths which are either axioms or previously proven theorems Thus it is par excellence a model of rational inquiry Links between Cognitive Psychology and Mathematics Education have been particularly strong during the last decades Indeed the Enlightenment view of the rational human mind that reasons makes decisions and solves problems based on logic and probabilities was shaken during the second half of the twentieth century Cognitive psychologists discovered that humans thoughts and actions often deviate from rules imposed by strict normative theories of inference Yet these deviations should not be called errors as Cognitive Psychologists have demonstrated these deviations may be either valid heuristics that succeed in the environments in which humans have evolved or biases that are caused by a lack of adaptation to abstract information formats Humans as the cognitive psychologist and economist Herbert Simon claimed do not usually optimize but rather satisfice even when solving problem This Research Topic aims at demonstrating that these insights have had a decisive impact on Mathematics Education We want to stress that we are concerned with the view of bounded rationality that is different from the one espoused by the heuristics and biases program In Simon s bounded rationality and its direct descendant ecological rationality rationality is understood in terms of cognitive success in the world correspondence rather than in terms of conformity to content free norms of coherence e g transitivity **The Meritocracy Trap** Daniel Markovits, 2020-09-08 A revolutionary new argument from eminent Yale Law professor Daniel Markovits attacking the false promise of meritocracy It is an axiom of American life that advantage should be earned through ability and effort Even as the country divides itself at every turn the meritocratic ideal that social and economic rewards should follow achievement rather than breeding reigns supreme Both Democrats and Republicans insistently repeat meritocratic notions Meritocracy cuts to the heart of who we are It sustains the American dream But what if both up and down the social ladder meritocracy is a sham Today meritocracy has become exactly what it was conceived to resist a mechanism for the concentration and dynastic transmission of wealth and privilege across generations Upward mobility has become a fantasy

and the embattled middle classes are now more likely to sink into the working poor than to rise into the professional elite At the same time meritocracy now ensnares even those who manage to claw their way to the top requiring rich adults to work with crushing intensity exploiting their expensive educations in order to extract a return All this is not the result of deviations or retreats from meritocracy but rather stems directly from meritocracy s successes This is the radical argument that Daniel Markovits prosecutes with rare force Markovits is well placed to expose the sham of meritocracy Having spent his life at elite universities he knows from the inside the corrosive system we are trapped within Markovits also knows that if we understand that meritocratic inequality produces near universal harm we can cure it When The Meritocracy Trap reveals the inner workings of the meritocratic machine it also illuminates the first steps outward towards a new world that might once again afford dignity and prosperity to the American people

COVID-19 and the Educational Response: New Educational and Social Realities Jane McIntosh Cooper, Leslie Michel Gauna, Christine Beaudry, 2022-01-31 **Teaching with**

Literacy Programs Patricia A. Edwards, Kristen L. White, Ann M. Castle, Laura J. Hopkins, 2023-09-21 Winner of the AACTE 2025 Gloria J Ladson Billings Outstanding Book Award A step by step guide to developing equitable literacy instruction by adapting curriculum to support diverse learners In Teaching with Literacy Programs Patricia A Edwards Kristen L White Laura J Hopkins and Ann M Castle present a model that allows educators to address educational inequity through the critical and adaptive use of existing literacy curriculum materials In this accessible work they advise educators on ways to combine common classroom materials such as basal readers and core reading programs with instructional practices that provide high quality responsive instruction to all students Edwards White Hopkins and Castle credit literacy instruction as a core part of overall educational equity and they recognize the crucial role that educators play in translating materials into instruction that benefits all learners Here they offer teacher education in support of this essential role deftly guiding educators through a four part development process CARE an acronym for cultivating critical consciousness analyzing materials reconstructing curricula and evaluating instruction reflectively to advance equity Built upon culturally relevant sustaining and antiracist pedagogy CARE enables teachers to provide literacy instruction that meets the range of needs and performance levels in classrooms supporting students in attaining academic achievement cultural competence and critical consciousness The approach outlined in this work which can be put into immediate practice helps educators to provide literacy instruction that builds on students multiple literacies and reduces educational inequity

The School Reform Landscape Reloaded Christopher H. Tienken, 2020-10-30 The School Reform Landscape Reloaded More Fear Myths and Lies peels back the curtain of school reform to examine the tensions that exist between the democratic and equitable system of public education and the emerging dual system based on elite interests aimed at profit making and decreasing education equity The author takes in depth and controversial look at school reform since the launch of Sputnik I Education reform events proposals and policies are examined through the lens of progressivist philosophy and critical social theory Some of the issues and policies

critiqued include the neoliberal corporate influence on education the Sputnik myth A Nation At Risk standardization charter schools and other relevant topics The author provides an evidence based view of the free market reform ideas and he pierces the veil of the new reform policies to find that they are not built upon empirical evidence but instead rest solidly on foundations of myth fear and lies Ideas for a new set of reform policies based on empirical evidence and supportive of a unitary equitable and democratic system of education are presented *Why Do English Learners Struggle With Reading?*

John J. Hoover, Leonard M. Baca, Janette K. Klingner, 2016-03-22 Make the right instructional and eligibility decisions to help your English Learners Do your students reading difficulties reflect language acquisition issues or a learning disability Now in an updated second edition this essential guide helps educators make informed accurate choices about strategies and services to support English Learners Developed for general and special education teachers and service providers this trusted resource offers a variety of research based best practices and includes Nine common misconceptions that can lead to wrongful placement of students in special education Theories of second language acquisition Select evidence based methods for teaching reading to students learning English Issues to consider and techniques to use when assessing students for special education and making data based decisions Role of cultural influences in reading instruction Expanded coverage of multi tiered system of supports MTSS Readers will find helpful vignettes checklists and suggestions that support outstanding teaching practices and appropriate effective use of assessment and referrals This book provides a wealth of information on ELs within the RTI process The authors provide a number of practical checklists that can be used by any school district Very few books address the topic as well as this one does Jennifer Urbach Associate Professor University of Northern Colorado

Materials Performance, 1976 *Resources in Education*, 1986 *Teaching to Change the World* Jeannie Oakes, Martin Lipton, Lauren Anderson, Jamy Stillman, 2018-01-29 Teaching to Change the World is an up to the moment engaging social justice oriented introduction to education and teaching and the challenges and opportunities they present Both foundational and practical the chapters are organized around conventional topics but in a way that consistently integrates a coherent story that explains why schools are as they are Taking the position that a hopeful democratic future depends on ensuring that all students learn the text pays particular attention to inequalities associated with race social class language gender and other social categories and explores teachers role in addressing them This thoroughly revised fifth edition remains a vital introduction to the profession for a new generation of teachers who seek to become purposeful knowledgeable practitioners in our ever changing educational landscape for those teachers who see the potential for education to change the world Features and Updates of the New Edition Fully updated Chapter 1 The U S Schooling Dilemma reflects our current state of education after the 2016 U S presidential election First person observations from teachers including first year teachers continue to offer vivid authentic pictures of what teaching to change the world means and involves Additional coverage of the ongoing effects of Common Core highlights the heated public discourse around teaching and teachers and charter schools

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