

**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  $x \in \mathbb{R} : \frac{2-x}{x+1} < 0$ . Graphically represent your answer. (5)

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

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

- 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:  $3x - 2$ ,  $x + \frac{1}{2}$ ,  $2x + 5$
- 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 11<sup>th</sup> 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)
- (P)**

# Grd 11 Final Exams 2014 Mathematics Paper 1

**Lei Huang**



## **Grd 11 Final Exams 2014 Mathematics Paper 1:**

**Research for Educational Change** Jill Adler, Anna Sfard, 2016-06-17 Research for Educational Change presents ways in which educational research can fulfil its commitments to educational practice Focussing its discussion within the context of mathematics education it argues that while research generated insights can have beneficial effects on learning and teaching the question of how these effects are to be generated and sustained is far from evident The question of how to turn research into educational improvement is discussed here in the context of learning and teaching hindered by poverty and social injustice In the first part of the book four teams of researchers use different methodologies while analysing the same corpus of data collected in a South African mathematics classroom In the second part each of these teams makes a specific proposal about what can be done and how so that its research generated insights have a tangible beneficial impact on what is happening in mathematical classrooms Combining two discourses that of researchers speaking to one another and that of researchers communicating their insights to those responsible for educational practice the book deals with the perennial question of communication between those who study educational processes and those who are directly responsible for teacher education educational research and classroom practices This book will be key reading for postgraduates researchers and academics in education and particularly in the areas of mathematics education education research teacher education and classroom practice It will also appeal to teacher educators practitioners and undergraduate students interested in educational research

**The Education Invasion** Joy Pullmann, 2017-03-14 Most Americans had no idea what Common Core was in 2013 according to polls But it had been creeping into schools nationwide over the previous three years and children were feeling its effects They cried over math homework so mystifying their parents could not help them even in elementary school They read motley assortments of informational text instead of classic literature They dreaded the high stakes tests in unfamiliar formats that were increasingly controlling their classrooms How did this latest and most sweeping reform of American education come in mostly under the radar Joy Pullmann started tugging on a thread of reports from worried parents and frustrated teachers and it led to a big tangle of history and politics intrigue and arrogance She unwound it to discover how a cabal of private foundation honchos and unelected public officials cooked up a set of rules for what American children must learn in core K 12 classes and how the Obama administration pressured states to adopt them Thus a federalized education scheme took root despite legal prohibitions against federal involvement in curriculum Common Core and its testing regime were touted as an absolute game changer in public education yet the evidence so far suggests that kids are actually learning less under it Why then was such a costly and disruptive agenda imposed on the nation's schools Who benefits And how can citizens regain local self governance in education so their children's minds will be fed a more nourishing intellectual diet and be protected from the experiments of emboldened bureaucrats The Education Invasion offers answers and remedies

Cognitive Neuroscience Editor's Pick 2021 Lutz Jäncke, 2021-08-10 Culturally and Socially

Responsible Assessment Catherine S. Taylor, 2022-02-11 This book addresses a problem that affects the work of all educators how traditional methods of assessment undermine the capacity of schools to serve students with diverse cultural and social backgrounds and identities Anchored in a common sense notion of validity this book explains how current K 12 assessment practices are grounded in the language experiences and values of the dominant White culture It presents a timely review of research on bias in classroom and large scale assessments as well as research on how students level of engagement influences their performances The author recommends practices that can improve the validity of students assessment performances by minimizing sources of bias using culturally responsive assessment tools and adopting strategies likely to increase students engagement with assessment tasks This practical resource provides subject specific approaches for improving the cultural and social relevance of assessment tools and offers guidance for evaluating existing assessment instruments for bias language complexity and accessibility issues Book Features Research based recommendations for improving assessment fairness validity and cultural social relevance Practices that have been shown to improve the effectiveness of classroom assessments in supporting student learning Concrete examples of how to create culturally relevant assessment tasks that target valued learning goals in language arts mathematics social studies and science classrooms Appendixes that provide tools educators can use to improve grading practices **Get Set, Go!** Thomas R.

Guskey, 2020-03-06 Make school a better experience for students by ensuring grading and reporting practices are honest accurate meaningful and fair A companion to the best selling and award winning On Your Mark this practical guide details how to successfully lead lasting grading reform Dr Thomas R Guskey simplifies the transition by guiding educators through six essential steps from developing a coalition devoted to change to creating a systematic plan Use this resource to develop a new system of grading in your school or district Become familiar with the process of implementing a rigorous new system of reporting that aligns with the goals of standards based grading Acquire numerous tools and strategies that will assist in the process of implementing a new grading system Study the six steps that are essential to any successful attempt to reform grading as well as how to succeed in each Learn how to form a change action plan that covers the entire system of implementation and improves the student experience Contents About the Author Introduction Chapter 1 Learn From Failures Chapter 2 Form a Coalition for Change Chapter 3 Understand the Change Process Chapter 4 Clarify the Purpose of Grading and Reporting Chapter 5 Report Multiple Grades for Cognitive Outcomes Chapter 6 Report Multiple Grades for Noncognitive Outcomes Chapter 7 Get Assessment Policies and Practices Right Chapter 8 Develop a Systematic Plan for Implementation References and Resources Index **International Handbook of Comparative Large-Scale Studies in Education** Trude Nilsen, Agnes Stancel-Piątak, Jan-Eric Gustafsson, 2022-09-21 This handbook is the first of its kind to provide a general and comprehensive overview of virtually every aspect of International Large Scale Assessment ILSA It includes historical economic and policy perspectives theoretical foundations methodology and reviews of findings from analyses of ILSA data

After decades during which ILSAs have generated knowledge within central areas of education research and gained increased and substantial impact on educational policy practice and research such a broad overview for a wide ranging audience is much needed With contributions from authors and editors from all continents this handbook appeals to an international audience and keeps a neutral perspective not favoring one ILSA over another The handbook is suitable to be read by politicians researchers and stakeholders who are seeking an overview of ILSAs their history and development and both potential benefits and limitations with regard to policy implications The reviews of findings from studies analyzing ILSA data will be of interest to stakeholders teachers researchers and policymakers Considering that the reviews extend to all fields pertaining to educational research the book will be valuable to all researchers interested in education Students may use the book to learn about ILSAs in the context of policy theoretical underpinnings or research Moreover the methodology section is written in a manner that is understandable and accessible for students stakeholders or researchers not familiar with these data This methodology part however is also a valuable resource for researchers who are familiar with ILSA data as it provides overviews of the design and sampling procedures of several ILSAs and includes advice on methods of analysis Even the owners of the ILSAs may find the book valuable as it contains overviews and insights into a number of ILSAs provides information how the data is used by the research community and includes recommendations for future instruments

*South African Schooling: The Enigma of Inequality* Nic Spaull, Jonathan D. Jansen, 2019-11-05 This volume brings together many of South Africa's leading scholars of education and covers the full range of South African schooling from financing and policy reform to in depth discussions of literacy numeracy teacher development and curriculum change The book moves beyond a historical analysis and provides an inside view of the questions South African scholars are now grappling with Are there different and preferential equilibria we have not yet thought of or explored and if so what are they In practical terms how does one get to a more equitable distribution of teachers resources and learning outcomes While decidedly local these questions resonate throughout the developing world South Africa today is the most unequal country in the world The richest 10% of South Africans lay claim to 65% of national income and 90% of national wealth This is the largest 90/10 gap in the world and one that is reflected in the schooling system Two decades after apartheid it is still the case that the life chances of most South African children are determined not by their ability or the result of hard work and determination but instead by the colour of their skin the province of their birth and the wealth of their parents Looking back on almost three decades of democracy in South Africa it is this stubbornness of inequality and its patterns of persistence that demands explanation justification and analysis This is a landmark book on basic education in South Africa an essential volume for those interested in learning outcomes and their inequality in South Africa The various chapters present conceptually and empirically sophisticated analyses of learning outcomes across divisions of race class and place The book brings together the wealth of decades of research output from top quality researchers to explore what has improved what has not and why Prof Lant

Pritchett Harvard University There is much wisdom in this collection from many of the best education analysts in South Africa No surprise that they conclude that without a large and sustained expansion in well trained teachers early childhood education and adequate school resources South Africa will continue to sacrifice its people s future to maintaining the privileges of the few Prof Martin Carnoy Stanford University Altogether one can derive from this very valuable volume if not an exact blueprint for the future then certainly at least a crucial and evidence based itinerary for the next few steps Dr Luis Crouch RTI

*Equitable School Scheduling* Cheryl Hibbeln, Lori Rhodes, 2024-11-05 To understand a school s values and priorities look at its schedule When schedules do not meet the instructional needs of students the result is a pipeline from PreK through grade 12 that leaks students an outcome disproportionately experienced by students of color and other marginalized student groups This practical and thoughtful guide demonstrates how school and district scheduling teams can become Architects of Equity highly effective teams who design schedules that reflect their commitment to student achievement and social emotional wellbeing Including strategies to shift collective mindsets around scheduling organize and support teaching teams and ensure fiscal responsibility in scheduling *Equitable School Scheduling* is a vital resource for secondary school leaders committed to dismantling systemic inequities inherent in school structures Readers will learn how to Self assess site and or district data through a deep examination of the course of study site schedule s transcripts and graduation cohort outcomes Design and implement an Equitable Core a guaranteed set of courses that all students experience as a part of a meaningful graduation Prioritize underestimated and historically underserved students in the planning of the schedule *Equitable School Scheduling* helps school and district administrators use scheduling as a tool to transform the leaky pipeline to graduation into a meaningful path to post secondary success for all students

*Psychosocial Skills and School Systems in the 21st Century* Anastasiya A Lipnevich, Franzis Preckel, Richard D. Roberts, 2016-04-02 This book provides a comprehensive overview and in depth analysis of research on psychosocial skills examining both theory and areas of application It discusses students psychosocial skills both as components of academic success and desired educational outcomes in grades K through 12 The book describes an organizing framework for psychosocial skills and examines a range of specific constructs that includes achievement motivation self efficacy creativity emotional intelligence resilience and the need for cognition In addition it reviews specific school based interventions and examines issues that concern the malleability of psychosocial skills It addresses issues relating to the integration of psychosocial skills into school curriculum as well as large scale assessment policies Topics featured in this book include Development of psychosocial skills in grades K 12 Assessment of psychosocial skills Conscientiousness in education and its relation to meaningful educational outcomes Creativity in schools including theory assessment and interventions Academic emotions and their regulation through emotional intelligence Resilience and school based programs aimed at enhancing it *Psychosocial Skills and School Systems in the 21st Century* is a must have resource for researchers graduate students clinicians mental health professionals

and policymakers in child and school psychology educational policy and politics public health social work developmental psychology and educational psychology      *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      **Validity of Educational Assessments in Chile and Latin America** Jorge Manzi, María Rosa García, Sandy Taut, 2021-09-11 This edited volume presents a systematic analysis of conceptual methodological and applied aspects related to the validation of educational tests used in Latin American countries Inspired by international standards on educational measurement and evaluation this book illustrates efforts that have been made in several countries to validate different types of educational assessments including student learning assessments measurements of non cognitive aspects in students teacher evaluations and tests for certification and selection It gathers the experience of validity studies from the main international assessments in Latin America PISA TIMSS ERCE and ICCS Additionally it shows the challenges that must be taken into account when evaluations are used to compare countries groups or trends of achievement over time The book builds on the premise that measurements in the educational field should not be used if there are no studies that support the validity of the interpretation of their scores or the use made of such tests It shows that despite the recognition given to validity relatively few educational measurement assessments have accumulated enough evidence to support their interpretation and use In doing so this volume increases awareness about the relevance of validity especially when assessments are key component of educational policies      **Handbook of College Reading and Study Strategy Research** Rona F. Flippo, Thomas W. Bean, 2018-06-12 The most comprehensive and up to date source available for college reading and study strategy practitioners and administrators the Third Edition of the Handbook of College Reading and Study Strategy Research reflects and responds to changing demographics as well as politics and policy concerns in the field since the publication of the previous edition In this thorough and systematic examination of theory research and practice the Handbook offers information to help college reading teachers to make better instructional decisions justification for programmatic implementations for administrators and a complete compendium of both theory and practice to better prepare

graduate students to understand the parameters and issues of this field The Handbook is an essential resource for professionals researchers and students as they continue to study research learn and share more about college reading and study strategies Addressing current and emerging theories of knowledge subjects and trends impacting the field the Third Edition features new topics such as disciplinary literacy social media and gaming theory **PISA A Review of**

**International Large-Scale Assessments in Education Assessing Component Skills and Collecting Contextual Data**

Cresswell John, Schwantner Ursula, Waters Charlotte, 2015-12-11 The OECD has initiated PISA for Development PISA D in response to the rising need of developing countries to collect data about their education systems and the capacity of their student bodies Mathematical and Statistics Anxiety: Educational, Social, Developmental and Cognitive Perspectives

Kinga Morsanyi, Irene Cristina Mammarella, Denes Szűcs, Carlo Tomasetto, Caterina Primi, Erin Anne Maloney, 2017-01-19 Mathematical anxiety is a feeling of tension apprehension or fear which arises when a person is faced with mathematical content The negative consequences of mathematical anxiety are well documented Students with high levels of mathematical anxiety might underperform in important test situations they tend to hold negative attitudes towards mathematics and they are likely to opt out of elective mathematics courses which also affects their career opportunities Although at the university level many students do not continue to study mathematics social science students are confronted with the fact that their disciplines involve learning about statistics another potential source of anxiety for students who are uncomfortable with dealing with numerical content Research on mathematical anxiety is a truly interdisciplinary field with contributions from educational developmental cognitive social and neuroscience researchers The current collection of papers demonstrates the diversity of the field offering both new empirical contributions and reviews of existing studies The contributors also outline future directions for this line of research **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).

Implementation of Large-Scale Education Assessments Petra Lietz, John C. Cresswell, Keith F. Rust, Raymond J. Adams, 2017-03-07. Presents a comprehensive treatment of issues related to the inception, design, implementation, and reporting of large-scale education assessments. In recent years, many countries have decided to become involved in international educational assessments to allow them to ascertain the strengths and weaknesses of their student populations. Assessments such as the OECD's Programme for International Student Assessment (PISA), the IEA's Trends in Mathematics and Science Study (TIMSS), and Progress in International Reading Literacy Study (PIRLS) have provided opportunities for comparison between students of different countries on a common international scale. This book is designed to give researchers, policy makers, and practitioners a well-grounded knowledge in the design, implementation, analysis, and reporting of international assessments. Readers will be able to gain a more detailed insight into the scientific principles employed in such studies, allowing them to make better use of the results. The book will also give readers an understanding of the resources needed to undertake and improve the design of educational assessments in their own countries and regions.

Implementation of Large-Scale Education Assessments Brings together the editors' extensive experience in creating, designing, implementing, analysing, and reporting results on a wide range of assessments. Emphasizes methods for implementing international studies of student achievement and obtaining high-quality data from cognitive tests and contextual questionnaires. Discusses the methods of sampling, weighting, and variance estimation that are commonly encountered in international large-scale assessments. Provides direction and stimulus for improving global educational assessment and student learning. Is written by experts in the field with an international perspective. Survey researchers, market researchers, and practitioners engaged in comparative projects will all benefit from the unparalleled breadth of knowledge and experience in large-scale educational assessments gathered in this one volume.

*International Handbook of Middle Level Education: Theory, Research, and Policy* David C. Virtue, 2019-08-30. The *International Handbook of Middle Level Education: Theory, Research, and Policy* is a landmark resource for researchers, graduate students, policy makers, and practitioners who work in middle-level education and associated fields of study. The volume provides an overview of the current state of middle-level education theory, research, and policy; offers analysis and critique of the extant literature in the field; and maps new directions for research and theory development in middle-level education. The handbook meets a pressing need in the field for a resource that is comprehensive in its treatment of middle-level research and international in scope. Chapter authors provide rationales for middle-level education research and definitions of the field; discuss philosophical approaches and underpinnings for middle-level education research; describe and critique frameworks for quality in middle-level education; review research about young adolescent learners; middle-level school programming; and educator preparation.

and analyze public policies affecting middle level education at national regional and local levels      **Proceedings of IAC-TLEI 2016 in Bratislava** group of authors,2016-07-01 International Academic Conference on Teaching Learning and E learning in Bratislava Slovakia 2016 IAC TLEI 2016 Wednesday Thursday July 6 7 2016      **Foundations of Education** Leslie S. Kaplan,William A. Owings,2021-09-09 Now published by SAGE A modern and comprehensive introduction to the field Foundations of Education makes core topics in education accessible and personally meaningful to students pursuing a career within the education profession In a clear and direct prose authors Leslie S Kaplan and William A Owings offer readers the breadth of coverage scholarly depth and conceptual analysis of contemporary issues that will help them gain a realistic and insightful perspective of the field In addition to classic coverage of foundational topics such as educational philosophy history reform law and finance the newly revised Third Edition features a special emphasis on social justice issues considers key debates around today s education trends and underscores the theory and practice behind meeting the needs of all learners This title is accompanied by a complete teaching and learning package

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