

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:

$$\frac{\sqrt[3]{x^2 y^{2x+1}}}{\sqrt[3]{x^{2x+1} y}}$$

(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 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)
- [P]**

2014 Exemplar For November Mathematics Paper 1 Grade 11

Hussin A.Rothana



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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

Mathematics Strategies for Tier 1 and Tier 2 Interventions in a PLC at Work® Sarah Schuhl, Mona Toncheff, Jennifer Deinhart, Brian Buckhalter, 2024-12-02 Discover how your collaborative team can ensure all students learn grade level mathematics during Tier 1 and Tier 2 instruction This valuable guide provides preK 12 teachers with ready to use tools and strategies to help students communicate using mathematical language and develop number sense conceptual understanding procedural fluency mathematical reasoning problem solving and more PreK 12 educators can use this book to Collaborate with teams to build a shared understanding of essential mathematics standards Ensure students learn grade level mathematics during Tier 1 and Tier 2 instruction Learn how to help students make connections to prior learning and why that matters Create opportunities for students to reason through problems with their

peers Develop students number sense procedural fluency and other key mathematics skills Contents Introduction Part 1 A Culture of Learning Chapter 1 Work as a Collaborative Mathematics Team Focused on Student Learning Chapter 2 Build a Community of Learners Part 2 Mathematics Foundations Chapter 3 Teach Grade or Course Level Content Chapter 4 Connect to Prior Knowledge Chapter 5 Develop Number Sense Chapter 6 Focus on Problem Solving Chapter 7 Develop Procedural Fluency Part 3 Student Engagement Chapter 8 Communicate Using Mathematical Language Chapter 9 Grow Learning Through Student Discourse Chapter 10 Use Meaningful Feedback for Learning Chapter 11 Empower Learners Through Student Investment Epilogue Appendix A Data Analysis Protocols Appendix B Cognitive Demand Level Task Analysis Guide References and Resources Index

The ^AOxford Handbook of Assessment Policy and Practice in Music Education, Volume 2 Timothy Brophy, 2019-01-02 In this two volume Handbook contributors from across the globe provide expert perspectives on the assessment measurement and evaluation of student learning in music

Theory and Practice of Lesson Study in Mathematics Rongjin Huang, Akihiko Takahashi, João Pedro da Ponte, 2019-05-28 This book brings together and builds on the current research efforts on adaptation conceptualization and theorization of Lesson Study LS It synthesizes and illustrates major perspectives for theorizing LS and enriches the conceptualization of LS by interpreting the activity as it is used in Japan and China from historical and cultural perspectives Presenting the practices and theories of LS with practicing teachers and prospective teachers in more than 10 countries it enables the reader to take a comparative perspective Finally the book presents and discusses studies on key aspects of LS such as lesson planning post lesson discussion guiding theories connection between research and practice and upscaling Lesson Study which has originated in Asia as a powerful effective professional development model has spread globally Although the positive effects of lesson study on teacher learning student learning and curriculum reforms have been widely documented conceptualization of and research on LS have just begun to emerge This book including 38 chapters contributed by 90 scholars from 21 countries presents a truly international collaboration on research on and adaptation of LS and significantly advances the development of knowledge about this process Chapter 15 How Variance and Invariance Can Inform Teachers Enactment of Mathematics Lessons of this book is available open access under a CC BY 4.0 license at link [springer.com](https://www.springer.com) Theory and Practice of Lesson Study in Mathematics An International Perspective shows that the power of Lesson Study to transform the role of teachers in classroom research cannot be explained by a simple replication model Here we see Lesson Study being successful internationally when its key principles and practices are taken seriously and are adapted to meet local issues and challenges Max Stephens Senior research fellow at The University of Melbourne It works Instruction improves learning improves Wide scale Enduring Deep impact Lesson study has it When something works as well as lesson study does while alternative systems for improving instruction fail or only succeed on small scale or evaporate as quickly as they show promise it is time to understand how and why lesson study works This volume brings the research on lesson study together from around the world Here is what we

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Computational Thinking Education Siu-Cheung Kong, Harold Abelson, 2019-07-04 This This book is open access under a CC BY 4 0 license This book offers a comprehensive guide covering every important aspect of computational thinking education It provides an in depth discussion of computational thinking including the notion of perceiving computational thinking practices as ways of mapping models from the abstraction of data and process structures to natural phenomena Further it explores how computational thinking education is implemented in different regions and how computational thinking is being integrated into subject learning in K 12 education In closing it discusses computational thinking from the perspective of STEM education the use of video games to teach computational thinking and how computational thinking is helping to transform the quality of the workforce in the textile and apparel industry Educational Measurement Craig S. Wells, Molly Faulkner-Bond, 2016-04-26 This book introduces and explores major topics in contemporary educational measurement criterion referenced testing item response theory IRT computer based testing cross lingual and cross cultural assessment and accountability testing Psychometric experts describe forward looking measurement practices and provide a contextualized understanding of how and why they were developed how they can be used and where they may go in the future In addition to presenting key concepts and formulas the volume covers established and emerging applications and discusses recurrent challenges that require additional research A helpful glossary of abbreviations is included The book is grounded in the work of Ronald K Hambleton Achieving Your Best in Math Class Charles P. Kost II, 2013-02-28 This collection of self guided lessons includes the essential skills that are needed to be successful in any mathematics class at the middle school high school and post secondary levels Students who are struggling in math class as well as students who want

to maximize their abilities in class will find these easy to implement strategies effective and practical Each lesson includes practice problems to master the concepts and employ them into everyday practice The strategies are divided into three units each focusing on different aspects of achievement The first unit includes organization note taking and techniques to study mathematics Unit II includes problem solving techniques that can be applied in any mathematics class and the last unit provides techniques to maximize scores on any assessment from quizzes to final exams and even the SATs The Routledge Handbook of the Economics of Education Brian P. McCall,2021-12-30 The economics of education is a burgeoning area of study employing increasingly sophisticated analytical tools to answer questions with high societal impact Thus the aim of this handbook is to provide readers with an up to date overview of the current state of the field of the economics of education and its main areas of research This comprehensive handbook provides an authoritative overview of key theoretical and policy areas covering topics like econometric methods for education economics returns to education competition in education provision education and economic growth and education and inequality It reviews the current state of research from early childhood through postgraduate education as well as adult education and life long learning Offering a truly international perspective the handbook benefits from a global group of contributors and attention to both developed and developing country contexts The Routledge Handbook of the Economics of Education will be a valuable resource for advanced students researchers and policymakers across economics education and public policy **Oswaal CTET (Central Teachers Eligibility Test) Paper-I | Classes 1 - 5 | 15 Year's Solved Papers | Yearwise | 2013 - 2024 | For 2024 Exam** Oswaal Editorial Board,2024-02-03 Oswaal CTET Central Teachers Eligibility Test Paper I Classes 1 5 15 Year s Solved Papers Yearwise 2013 2024 For 2024 Exam *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 *Resources in Education*, 1995-04 Helping Children Learn Mathematics, 5th Australian Edition Robert Reys, Mary Lindquist, Diana V. Lambdin, Nancy L. Smith, Anna Rogers, Leicha Bragg, Audrey Cooke, Melissa Fanshawe, Mark Gronow, 2025-10-10 Graphical Analysis of Covering and Paired Domination in the Environment of Neutrosophic Information Sami Ullah Khan, Abdul Nasir, Naeem Jan, Zhen-Hua Ma, Neutrosophic graph NG is a powerful tool in graph theory which is capable of modeling many real life problems with uncertainty due to unclear varying and indeterminate information Meanwhile the fuzzy graphs FGs and intuitionistic fuzzy graphs IFGs may not handle these problems as efficiently as NGs It is difficult to model uncertainty due to imprecise information and vagueness in real world scenarios Many real life optimization problems are modeled and solved using the well known fuzzy graph theory

Research on Reasoning with Data and Statistical Thinking: International Perspectives Gail F. Burrill, Leandro de Oliveria Souza, Enriqueta Reston, 2023-07-21 This book is derived from selected papers from the Fourteenth International Congress on Mathematical Education Topic Study Group 12 Teaching and Learning Statistics It describes recent research on curriculum pedagogy and outreach initiatives from countries as diverse as Brazil Chile Columbia Denmark Germany the Netherlands Spain Sweden Thailand Turkey the United Kingdom and the United States The book has a focus on the use of data in the teaching and learning of statistics across grade levels and begins with an overview of the status of statistics education and the use of data from seven different countries across the continents and the link between research and practice in those countries Because it contains specific examples of the research for example on the ways children learn the choice and implementation of tasks or the role of informal inference the book will be a great resource to those interested and involved in the teaching of statistics curriculum developers and statistics education researchers **Learning as Development** Daniel A. Wagner, 2017-10-04 Learning is the foundation of the human experience It begins at birth and never stops a continuous and malleable link across life stages of human development Disparities in learning access and outcomes around the world have deep consequences for income social mobility health and well being For international development practitioners faced with today's unprecedented environmental and geopolitical pressures learning should be viewed as a touchstone and target for those seeking to truly effect global change This book traces the path of international development work from its pre colonial origins to the emergence of economics as the dominant discipline in the field and lays out a new agenda for policymakers researchers and practitioners from early education through adulthood Learning as Development is an attempt to rethink international education in a changing world Connecting People to Their Oceans: Issues and Options for Effective Ocean Literacy Angel Borja, Francesca Santoro, Gail Scowcroft, Stephen Fletcher, Pierre Strosser, 2020-03-25 While there is growing evidence of the importance of marine ecosystems for our societies evidence shows also that pressures from

human activities on these ecosystems are increasing putting the health of marine ecosystems at stake worldwide Hence Blue Economy is becoming an important component of future socio economic development strategies e g this is called Blue Growth in Europe that eventually can result in increasing pressures at sea and despite the current regulatory framework in particular with the Oceans Act in USA or Canada and the Marine Strategy Framework Directive in Europe it is likely that this situation will continue in the future Ensuring all those connected to the sea directly or indirectly gain a better understanding of the importance of the seas the human sea interactions and opportunities to act better and reduce impacts from human pressures is central to Ocean Literacy OL Receiving increasing attention in Europe and USA OL is a challenge for all parts of society educators 2 the role OL could play in interaction with innovation regulation economic incentive social norms to support human capital development as key component of sustainable growth and 3 pre conditions for effective OL for different sectors and target groups Questions relevant to OL include Which knowledge produced by whom to share and how Who to target and how to effectively reach those targeted How to design OL initiatives including by mobilizing those targeted via living lab approaches e g to ensure effective OL and pave the way for behavior change What are the knowledge gaps that limit our capacity to design effective OL As scientists it is likely you have many more questions to offer and discuss

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