

**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 $x(x + 10) > -25$ (4)
- 1.1.5 $x^{\frac{1}{2}} = 4$ (3)
- 1.1.6 $2^x - 2^{x-1} = 12$ (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 $x = -1 \pm 2\sqrt{2}$ 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: $\frac{2x}{x+1} < 0$. Graphically represent your answer. (5)

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

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

(4)

- 2.5 Without solving the equation, determine the nature of the roots of $4x^2 = 2x + 1$.

(3)

[P4]

QUESTION 3

- 3.1 The first three terms of a linear series, is given as: $3x - 2, x + 9, 2x + 5$
- 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 -176 ? (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]

Mathematics Paper 1 2014 Nov Dec Grade 11

**Nicholas N. Behm, Sherry Rankins-
Robertson**



Mathematics Paper 1 2014 Nov Dec Grade 11:

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

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 Framework for Success in Postsecondary Writing Nicholas N. Behm, Sherry Rankins-Robertson, 2017-03-03 Illustrates the widespread applications of the Framework for Success in Postsecondary Writing especially the eight habits of mind in helping students to be successful not only in postsecondary writing courses but also in four arenas of life academic professional civic and personal *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 The Use of Screencasting in Higher Education Jetmir Abdija, Tunku Badariah Tunku Ahmad, Mohamad Sahari Nordin, 2018-09-15 Screencasting is a powerful instructional tool for learning yet few in higher education take advantage of its utility This book showcases the benefits of screencasting and how it can facilitate students acquisition of complex content like statistics It is a condensed version of a case study that examined the effects of screencasts on postgraduate students learning of advanced statistics Every chapter guides the reader through the intricate process of conducting the research and gives a complete picture of the design materials and instrumentation If you are a novice researcher and are interested in technology this book is for you *Teaching Mathematics Creatively* Linda Pound, Trisha Lee, 2021-09-30 This revised and updated third edition offers a range of strategies activities and ideas to bring mathematics to life in the primary classroom Taking an innovative and playful approach to maths teaching this book promotes creativity as a key element of practice and offers ideas to help your students develop knowledge understanding and enjoyment of the subject In the creative classroom mathematics becomes a tool to build confidence develop problem solving skills and motivate children The fresh approaches explored in this book include a range of activities such as storytelling music and construction elevating maths learning beyond subject knowledge itself to enable students to see mathematics in a

new way Key chapters of this book explore Learning maths outdoors make more noise make more mess or work on a larger scale Everyday maths making sense of the numbers patterns shapes and measures children see around them Music and maths the role of rhythm in learning and music and pattern in maths Stimulating accessible and underpinned by the latest research and theory this is essential reading for trainee and practising teachers who wish to embed creative approaches to maths teaching in their classroom

Equity in Mathematics Education Constantinou Xenofontos, 2019-10-01 Following in the steps of the socio political turn of the discipline Equity in Mathematics Education Addressing a Changing World emerged as a response of the editor and the chapter authors to the enormous changes that have in the last years occurred at a global level for example the ongoing war in Syria the political in actions of powerful nations to fight climate change the rise of far right parties in many countries around the world and so on In recent years massive migration waves from the Middle East have caused significant demographic changes to many European countries Canada and the US that are reflected in schools and classrooms These observations have led this book s contributors to reconsider the concept and or practice of equity and its related concept social justice and the role of mathematics education research in addressing and promoting a fairer world Contrary to other perhaps highly specialized books concerned with similar topics this book aims to provide a smooth yet deep introduction to those who are new to this research area Equity in Mathematics Education Addressing a Changing World contributes to the understanding of equity and its complex relations to mathematics education It is anticipated that it will support individuals in teaching educational research policy making and planning and teacher education in becoming more aware of the interplay between school mathematics and socio political issues that ultimately impacts the lives of learners and their communities teachers as practitioners and as citizens the wider society and the world as a whole Even though each chapter can be read independently of others an engagement with all chapters in this volume will provide readers with a solid holistic understanding of the research territory of equity and mathematics education

Count Girls In Karen Panetta, Katianne Williams, 2018-08-01 Maybe you have a daughter who loves cooking soccer and musicals Maybe she s a social butterfly an athlete a fashionista and a humanitarian who wants to change the world Be honest do you think Well she s clearly not a math and science kid Do you assume that certain classes and careers won t appeal to her Count Girls In challenges these assumptions and presents a totally different way of thinking there is a place for all girls and young women not just the science fair winners and robotics club members in science technology engineering and math STEM fields if we can keep their and our minds and options open and meet them where they are To succeed in STEM fields today girls don t have to change who they are A girl who combines her natural talents interests and dreams with STEM skills has a greater shot than ever before at a career she loves and a salary she deserves Count Girls In encourages parents and other adults to raise authentic young women who have the confidence to put STEM to work in a way that best serves them and their passions The authors both STEM professionals present compelling research in a conversational accessible style and provide

specific advice and takeaways for each stage of schooling from elementary school through college followed by comprehensive STEM resources This isn't a book about raising competitive test-acing girls in lab coats this is about raising happy confident girls who realize the world of opportunities before them

[The Mathematics Practitioner's Guidebook for Collaborative Lesson Research](#) Akihiko Takahashi, Geoffrey Wake, 2023-10-04 This resource provides mathematics educators with tools for conducting Collaborative Lesson Research CLR a form of Lesson Study developed out of the original Japanese Lesson Study and intended to improve student and teacher learning Renowned mathematics education researchers Akihiko Takahashi and Geoffrey Wake bring together educators across the US and UK with first hand experience using CLR in their schools Readers will learn the essentials for an impactful Lesson Study directly from the scholars who coined the term and benefit from the dual perspectives of math education researchers and teachers who have used CLR when reflecting on their own classroom pedagogy These contributors define CLR and provide examples of successful CLR using real life case studies as well as introducing pathways for getting started and practical suggestions for implementation into different school environments Across these examples readers will understand the essence of Lesson Study considered as CLR and its important features be advised what participants in CLR should expect to do observing research lessons designing lessons teaching research lessons facilitating post lesson discussion etc and provide guidance and support with this enactment be advised on how to develop embed and sustain CLR communities preview potential outcomes over time from undertaking CLR Research lesson proposals and plans to support readers in understanding CLR are also included Ideal for practicing teachers teacher leaders teacher educators and professional developers involved in mathematics teaching this book offers first of its kind entry points for CLR Its combination of theory and practice will empower educators to implement this increasingly popular vehicle for understanding students learning of mathematics

Sick Schools David V. Anderson, 2020-01-10 Who's afraid of for profit education Those who work in non profit or government owned and operated schools Many parents and other stakeholders have been made fearful by this education establishment What's more important to humans nutrition or education Nutrition is more important because it is the prerequisite for other human activities including education What organizations provide food and who pays for the food Food is provided by for profit farmers for profit processors for profit wholesalers and for profit retailers Most food is purchased with the consumers own money but a significant amount is purchased by low income individuals using food stamps Why can't education be provided similarly using education stamps We trust for profit enterprises to provide our food Why can't we trust for profit enterprises to provide K 12 education Fearmongers have frightened us and made us into gullible compliant socialists who despise commercial activities in education Go to the supermarket and ponder its marvelous array of foods and then contemplate how a for profit K 12 education sector would please and amaze its customers

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in this experiment we will carry out the nitration of bromobenzene bromine substituted on an aromatic ring is an ortho para directing group it will direct an incoming electrophile to the ortho and para positions it is also deactivating meaning that its reactions will be slower than the identical reactions of benzene

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section 20711 lab experiment nitration of bromobenzene introduction the chemical reaction of nitration consists of a nitro group being added to or substituted in a molecule nitration can basically be carried out by a mixture of concentrated nitric acid and sulfuric acid this mixture is useful to obtain the active nitronium ion

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1 go to the restroom and wash the affected area with lots of soap and water the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area 3 the summary to this warning is not to touch any part of your body while performing this experiment if you must leave the lab for any reason 1

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in the nitration of bromobenzene a mixture of sulfuric acid and nitric acid react with one another nitric acid the weaker of the two acids will serve as base to form nitronium ion bromobenzene will attack the nitronium ion by nucleophilic attack

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then actual is your actual findings yield actual theoretical x 100 what are the possible side reactions of nitration of bromobenzene dinitration can occur at ortho para or at both ortho positions occurs in overheating meta product happens very rarely because bromine is an ortho para director

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the bromine substituent in bromobenzene is an ortho para director the para position is favored due to steric effects in the reaction that takes place in this lab a nitro group is substituted onto bromobenzene at the para position to form 1 bromo 4 nitrobenzene

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over 5 minutes slowly pipet this bromobenzene into the icy cold nitration mixture hno 3 h 2 so 4 in the 125 ml flask and stir continue to stir the reaction mixture in the ice bath for 30 minutes do not heat in a new 250 ml erlenmeyer

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on the right the arenium cation has a nitro set with incredibly small 0 6 angstrom bond distances this will result in an optimization failure as the atoms are even close for the programme to accomodate their electrons demonstration of creating the p arenium cation by to nitration of bromobenzene

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the purpose of this lab was to observe where substituents are added on a benzene ring by way of electrophilic aromatic substitution the electrophilic source in the nitration of bromobenzene comes from a nitronium ion NO_2^+ which acts as the electrophilic species

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