



EXAMINATIONS COUNCIL OF ZAMBIA

JUNIOR SECONDARY SCHOOL LEAVING EXAMINATION (GRADE 9) – 2013

MATHEMATICS 401/2
PAPER 2

(INTERNAL AND EXTERNAL CANDIDATES)

WORKING TIME: 2 HOURS

MARKS: 50

READING TIME: 10 MINUTES

CANDIDATE NAME: _____

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INSTRUCTIONS TO CANDIDATES

- 1** Write your name, examination number and school/centre in the spaces provided on the question paper.
- 2** There are **eight (8)** questions in this paper. Answer any **five (5)** questions.
- 3** Answer all questions in the spaces provided on the question paper.
- 4** Write your answers clearly.
- 5** All essential working must be shown. Candidates will be penalized for omitting essential working.
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Questions	1	2	3	4	5	6	7	8	Total marks
Tick									
Mark									

Grade 9 Common Paper For 2013 Mathematics

Yvelyne Germain-McCarthy



Grade 9 Common Paper For 2013 Mathematics:

Bringing the Common Core Math Standards to Life Yvelyne Germain-McCarthy,Ivan Gill,2014-11-20 As high school math teachers shift to the Common Core State Standards the question remains What do the standards actually look like in the classroom This book answers that question by taking you inside of real Common Core classrooms across the country You ll see how exemplary teachers are meeting the new requirements and engaging students in math Through these detailed examples of effective instruction you will uncover how to bring the standards to life in your own classroom Special Features A clear explanation of the big shifts happening in the classroom as a result of the Common Core State Standards Real examples of how exemplary teachers are using engaging strategies and tasks to teach algebra geometry trigonometry statistics mathematics across the curriculum and more A detailed analysis of each example to help you understand why it is effective and how you can try it with your own students Practical ready to use tools you can take back to your classroom including unit plans and classroom handouts

Assessing Mathematical Literacy Kaye Stacey,Ross Turner,2014-11-03 This book describes the design development delivery and impact of the mathematics assessment for the OECD Programme for International Student Assessment PISA First the origins of PISA s concept of mathematical literacy are discussed highlighting the underlying themes of mathematics as preparation for life after school and mathematical modelling of the real world and clarifying PISA s position within this part of the mathematics education territory The PISA mathematics framework is introduced as a significant milestone in the development and dissemination of these ideas The underlying mathematical competencies on which mathematical literacy so strongly depends are described along with a scheme to use them in item creation and analysis The development and implementation of the PISA survey and the consequences for the outcomes are thoroughly discussed Different kinds of items for both paper based and computer based PISA surveys are exemplified by many publicly released items along with details of scoring The novel survey of the opportunity students have had to learn the mathematics promoted through PISA is explained The book concludes by surveying international impact It presents viewpoints of mathematics educators on how PISA and its constituent ideas and methods have influenced teaching and learning practices curriculum arrangements assessment practices and the educational debate more generally in fourteen countries

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

Mathematics and Multi-Ethnic Students Yvelyne Germain-McCarthy, 2017-05-25 Mathematics and Multi Ethnic Students provides detailed profiles of teachers across the nation who have implemented effective mathematics instruction for diverse student populations In this revised edition Yvelyne Germain McCarthy expands upon the popular case studies and adds two new chapters to highlight the latest educational research and practices that are reflected in the case studies A third new chapter introduces the concept of the Life Long Learning Laboratory where courageous questions on issues such as the impact of race on student learning are discussed Featuring useful framing tools including the Discussion with Colleagues and Commentary sections Mathematics and Multi Ethnic Students translates concrete instances of access and equity into generalized problem solving methods for promoting ethnic diversity across grade levels An important resource for pre service and in service educators researchers administrators and policy makers this volume highlights the work of teachers who have gone beyond mere awareness of reform recommendations in mathematics instruction By uniting the goals of multicultural education with those of the mathematics curriculum educators will learn to conceptualize and implement best practices for effective equitable teaching and learning of mathematics for their students

Visualisation and Epistemological Access to Mathematics Education in Southern Africa Marc Schäfer, 2023-04-27 This book demonstrates that using visualisation processes in mathematics education can help to enhance teaching and learning and bridge the inequality gap that exists between well resourced and under resourced schools in Southern Africa Drawing on classroom research conducted in the Southern African region it examines how epistemological access in a context of gross inequality can be constructively addressed by providing research based solutions and recommendations The book outlines the visualisation process as an integral but often overlooked process of mathematics teaching and learning It goes beyond the traditional understanding of visualisation processes such as picture forming and using tools and considers visualisation processes that are semiotic in nature and includes actions such as gestures in combination with language It adds value to the visualisation in mathematics education research discourse and deliberation in Africa With a unique focus on Southern Africa and open avenues for further research and collaboration in the region it will be a highly relevant reading for researchers academics and post graduate students of mathematics education comparative education and social justice education

Proceedings of the 13th International Congress on Mathematical Education Gabriele Kaiser, 2017-10-31 This book is open access under a CC BY 4.0 license. The book presents the Proceedings of the 13th International Congress on Mathematical Education ICME 13 and is based on the presentations given at the 13th International Congress on Mathematical Education ICME 13. ICME 13 took place from 24th to 31st July 2016 at the University of Hamburg in Hamburg, Germany. The congress was hosted by the Society of Didactics of Mathematics Gesellschaft für Didaktik der Mathematik GDM and took place under the auspices of the International Commission on Mathematical Instruction ICMI. ICME 13 brought together about 3,500 mathematics educators from 105 countries; additionally, 250 teachers from German-speaking countries met for specific activities. Directly before the congress, activities were offered for 450 Early Career Researchers. The proceedings give a comprehensive overview on the current state of the art of the discussions on mathematics education and display the breadth and deepness of current research on mathematical teaching and learning processes. The book introduces the major activities of ICME 13, namely articles from the four plenary lectures and two plenary panels, articles from the five ICMI awardees, reports from six national presentations, three reports from the thematic afternoon devoted to specific features of ICME 13. Furthermore, the proceedings contain descriptions of the 54 Topic Study Groups which formed the heart of the congress and reports from 29 Discussion Groups and 31 Workshops. The additional important activities of ICME 13, namely papers from the invited lecturers, will be presented in the second volume of the proceedings.

Teaching Elementary Mathematics to Struggling Learners Bradley S. Witzel, Mary E. Little, 2016-01-24 Packed with effective instructional strategies, this book explores why certain K-5 students struggle with math and provides a framework for helping these learners succeed. The authors present empirically validated practices for supporting students with disabilities and others experiencing difficulties in specific areas of math, including problem solving, early numeracy, whole number operations, fractions, geometry, and algebra. Concrete examples, easy-to-implement lesson planning ideas, and connections to state standards, in particular the Common Core standards, enhance the book's utility. Also provided is invaluable guidance on planning and delivering multi-tiered instruction and intervention.

School Resources, the Achievement Gap, and the Law David J. Armor, John R. Munich, Aron Malatinszky, 2024-01-12 This book offers a novel and up-to-date exploration of the common belief that increasing conventional school resources will increase academic achievement and help close gaps between various advantaged and disadvantaged students. Taking the scholarship around this question, such as James S. Coleman's 1965 report on the Equality of Educational Opportunity as a starting point, it brings in an extensive range of contemporary data sources and statistical analysis to offer an updated, robust, and considered review of the issue. Moving beyond these empirical questions, it also explores how these empirical findings have been utilized in education adequacy litigation, discussing the evolving law of adequacy cases while explaining the challenges of introducing complex data and analyses within a litigation framework. Judges typically have little experience with the complexity of modern education data and the analyses required to

draw sound inferences It will thus be of interest to scholars researchers and faculty and jurists with expertise or interest in education policy the economics and sociology of education and public policy **Schooled** Anne Lutz Fernandez, Catherine Lutz, 2015-07-02 Nothing provided *Decolonizing Educational Assessment* Ardavan Eizadirad, 2019-09-06 This book examines the history of standardized testing in Ontario leading to the current context and its impact on racialized identities particularly on Grade 3 students parents and educators Using a theoretical argument supplemented with statistical trends the author illuminates how EQAO tests are culturally and racially biased and promote a Eurocentric curriculum and way of life privileging white students and those from higher socio economic status This book spurs readers to further question the use of EQAO standardized testing and challenges us to consider alternative models which serve the needs of all students

Mathematics Education Jacqueline Dewar, Pao-sheng Hsu, Harriet Pollatsek, 2016-11-26 Many in the mathematics community in the U S are involved in mathematics education in various capacities This book highlights the breadth of the work in K 16 mathematics education done by members of US departments of mathematical sciences It contains contributions by mathematicians and mathematics educators who do work in areas such as teacher education quantitative literacy informal education writing and communication social justice outreach and mentoring tactile learning art and mathematics ethnomathematics scholarship of teaching and learning and mathematics education research Contributors describe their work its impact and how it is perceived and valued In addition there is a chapter co authored by two mathematicians who have become administrators on the challenges of supporting evaluating and rewarding work in mathematics education in departments of mathematical sciences This book is intended to inform the readership of the breadth of the work and to encourage discussion of its value in the mathematical community The writing is expository not technical and should be accessible and informative to a diverse audience The primary readership includes all those in departments of mathematical sciences in two or four year colleges and universities and their administrators as well as graduate students Researchers in education may also find topics of interest Other potential readers include those doing work in mathematics education in schools of education and teachers of secondary or middle school mathematics as well as those involved in their professional development **Teaching Secondary and Middle School Mathematics** Daniel J. Brahier, 2020-04-01 Teaching Secondary and Middle School Mathematics combines the latest developments in research technology and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics The book explores the mathematics teaching profession by examining the processes of planning teaching and assessing student progress through practical examples and recommendations Beginning with an examination of what it means to teach and learn mathematics the reader is led through the essential components of teaching concluding with an examination of how teachers continue with professional development throughout their careers Hundreds of citations are used to support the ideas presented in the text and specific websites and other resources are presented for future study by the

reader Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms The sixth edition has been updated and expanded with particular emphasis on the latest technology resources and standards The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation as well as how to manage a classroom for success Features include The entire text has been reorganized so that assessment takes a more central role in planning and teaching Unit 3 of 5 now addresses the use of summative and formative assessments to inform classroom teaching practices A new feature Links and Resources has been added to each of the 13 chapters While the book includes a substantial listing of citations and resources after the chapters five strongly recommended and practical resources are spotlighted at the end of each chapter as an easy reference to some of the most important materials on the topic Approximately 150 new citations have either replaced or been added to the text to reflect the latest in research materials and resources that support the teaching of mathematics A Quick Reference Guide has been added to the front of the book to assist the reader in identifying the most useful chapter features by topic A significant revision to Chapter 13 now includes discussions of common teaching assessments used for field experiences and licensure as well as a discussion of practical suggestions for success in methods and student teaching experiences Chapter 9 on the practical use of classroom technology has been revised to reflect the latest tools available to classroom teachers including apps that can be run on handheld personal devices An updated Instructor s Manual features a test bank sample classroom activities Powerpoint slides chapter summaries and learning outcomes for each chapter and can be accessed by instructors online at www.routledge.com/9780367146511

Psychological Studies in the Teaching, Learning and Assessment of Mathematics Yiming Cao,Zsolt Lavicza ,Shuhua An,Lianchun Dong,2024-05-31 There is no doubt that the onset of a new decade has brought high expectations of academic progress for scholars especially for researchers in mathematics education The International Group for the Psychology of Mathematics Education was born in 1976 which focused on the international exchange of knowledge in the psychology of mathematics education the promotion of interdisciplinary research with psychologists mathematicians and mathematics teachers and the development of the psychological aspects of teaching and learning mathematics and its implications

Handbook of Multicultural School Psychology Emilia C. Lopez,Sara G. Nahari,Sherrie L. Proctor,2017-03-16 The second edition of the Handbook of Multicultural School Psychology continues the mission of its predecessor offering a comprehensive interdisciplinary view of the field of multicultural school psychology and addressing the needs of children and families from diverse cultural backgrounds The revised organizational structure includes the following History and Professional Issues Consultation and Collaboration Interventions Focused on Academic and Mental Health Issues Data based Decision Making Systems based Issues Training and Research and Future Perspectives Nineteen of the volume s twenty three chapters are completely new to this edition while the rest have been effectively revised and updated Comprehensive In seven sections this book covers

theoretical research and practical concerns in a wide range of areas that include multicultural and bilingual issues second language acquisition acculturation parent collaboration research and systemic issues Chapter Structure Chapter authors follow a uniform structure that includes theoretical and research issues and implications for practice Recent practice and training guidelines including Blueprint for Training and Practice III 2006 NASP Model for Comprehensive and Integrated School Psychological Services 2010 and APA Multicultural Guidelines 2003 are covered Interdisciplinary Perspective Contributing authors are from a wide range of related fields that include school psychology special education general education early childhood education educational psychology clinical psychology counseling and mental health thus exposing readers to theory and research from various approaches Changes New to this edition is a section focusing on systemic issues such as overrepresentation of culturally and linguistically diverse CLD students in special education prejudice response to intervention RTI for CLD students and English Language Learners ELL and end of chapter discussion questions This book is ideal for graduate courses and seminars on multicultural school psychology It is also a useful reference for researchers and practicing school psychologists and the libraries that serve them

What Lies Ahead for America's Children and Their Schools Richard Sousa, 2014-03-01 The coming decade holds immense potential for dramatic improvement in U S education and in the achievement of American children and in this volume members of the Hoover Institution's Koret Task Force on K 12 Education examine both the potential gains and the pitfalls that lie ahead informed by where U S education has been what changes have been made in recent years and what's still required for the comprehensive overhaul that this vital enterprise so urgently needs Looking backward is infinitely easier than predicting the future but planning for the future is necessary if anything is to change and by analyzing the recent past and present condition of American primary and secondary school education across a host of key topics task force members in this volume chart a bold course for the years ahead Optimistic about the opportunities at hand they identify essential and feasible reforms as well as the barriers that must be overcome if those changes are to occur They offer high quality scholarship and thoughtful prescriptions for productive policy alternatives

Papers, 1959 **What Mathematics Do Students Know and How is that Knowledge Changing?** Peter Kloosterman, Doris Mohr, Crystal Walcott, 2015-09-01 This volume is intended for researchers curriculum developers policy makers and classroom teachers who want comprehensive information on what students at grades 4 8 and 12 the grades assessed by NAEP can and cannot do in mathematics After two introductory chapters on the design of NAEP the volume contains a chapter on the challenges in analyzing NAEP data at the item level followed by five chapters that report 2005 through 2013 student performance on specific assessment items These chapters are organized by content area and then by topic e g understanding of place value knowledge of transformations ability to use metric and U S systems of measurement and thus provide baseline data on the proportion of students who are able to complete the mathematics tasks currently used in the upper elementary middle and high school mathematics curriculum Additional chapters focus on student reasoning U S

performance on international assessments and using construct analysis rather than percent correct on clusters of items to understand student knowledge on specific mathematics topics Several themes emerge from the volume One is that while the rate of improvement in mathematics learning in grades 4 and 8 has slowed in recent years it has slowed more on some topics than others Another is that relatively minor changes in wording can have significant effects on student performance and thus it is difficult to be specific about what students can do without knowing exactly what questions they were asked A third theme is that changes in performance over time can sometimes but not always be understood in terms of what students are taught For example there were substantial gains on several grade 4 items requiring understanding of fractions and that is probably because the amount of instruction on fractions in grades 3 and 4 has been increasing In contrast while relatively few twelfth grade students have ever been good at factoring trinomials performance on this skill seems to be decreasing This suggests that while more students are completing advanced mathematics courses in high school these courses are not helping in the area of factoring trinomials Finally there are limitations to using NAEP as a measure of student performance on the Common Core State Standards To the extent that NAEP can be used however the NAEP data show a substantial gap between expectations and performance

JSL Vol 26-N5 JOURNAL OF SCHOOL LEADERSHIP, 2017-01-12 JSL invites the submission of manuscripts that contribute to the exchange of ideas and scholarship about schools and leadership All theoretical and methodological approaches are welcome We do not advocate or practice a bias toward any mode of inquiry e g qualitative vs quantitative empirical vs conceptual discipline based vs interdisciplinary and instead operate from the assumption that all careful and methodologically sound research has the potential to contribute to our understanding of school leadership We strongly encourage authors to consider both the local and global implications of their work The journal's goal is to clearly communicate with a diverse audience including both school based and university based educators The journal embraces a broad conception of school leadership and welcomes manuscripts that reflect the diversity of ways in which this term is understood The journal is interested not only in manuscripts that focus on administrative leadership in schools and school districts but also in manuscripts that inquire about teacher student parent and community leadership

Common Sense Education Ernest J. Zarra III, 2016-08-16 The 2015 passage of the Every Student Succeeds Act ESSA has again changed education for public schools and communities Common Core is now optional and the role of Secretary of Education has been limited by no longer incentivizing states as done under Common Core This book analyzes the new direction today's schools must pursue for student learning and their success beyond high school States and local educational agencies are once again empowered and will have more authority over curriculum and assessment Common Sense Education includes samples from these states ideas from several universities which are retooling their teacher education programs and focusing on teacher excellence as well as schools recalibrating their programs for student learning This book advocates for common sense education uses a national survey to provide parent and teacher perspectives and suggests a new paradigm for

exciting twenty first century high schools **Mathematics Matters in Education** Yeping Li, W. James Lewis, James J. Madden, 2017-10-03 This book is inspired by Roger E Howe's contributions to the international communities of mathematics and mathematics education. Renowned for his research contributions in the fields of representation theory, automorphic forms, harmonic analysis, and invariant theory, Dr Howe has also fundamentally deepened our understanding of the mathematics taught in the early school grades and has challenged and stimulated mathematicians and mathematics educators to work together to examine this part of the mathematical universe more critically and in imaginative new ways. This volume will help summarize and highlight Howe's contributions to several topic areas in mathematics education, demonstrating the possibility and importance of engaging mathematicians in high impact research in mathematics education and showcasing the importance of cross disciplinary collaboration and exchange.

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Table of Contents Grade 9 Common Paper For 2013 Mathematics

1. Understanding the eBook Grade 9 Common Paper For 2013 Mathematics
 - The Rise of Digital Reading Grade 9 Common Paper For 2013 Mathematics
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 9 Common Paper For 2013 Mathematics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Grade 9 Common Paper For 2013 Mathematics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 9 Common Paper For 2013 Mathematics

- Personalized Recommendations
 - Grade 9 Common Paper For 2013 Mathematics User Reviews and Ratings
 - Grade 9 Common Paper For 2013 Mathematics and Bestseller Lists
5. Accessing Grade 9 Common Paper For 2013 Mathematics Free and Paid eBooks
- Grade 9 Common Paper For 2013 Mathematics Public Domain eBooks
 - Grade 9 Common Paper For 2013 Mathematics eBook Subscription Services
 - Grade 9 Common Paper For 2013 Mathematics Budget-Friendly Options
6. Navigating Grade 9 Common Paper For 2013 Mathematics eBook Formats
- ePub, PDF, MOBI, and More
 - Grade 9 Common Paper For 2013 Mathematics Compatibility with Devices
 - Grade 9 Common Paper For 2013 Mathematics Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Grade 9 Common Paper For 2013 Mathematics
 - Highlighting and Note-Taking Grade 9 Common Paper For 2013 Mathematics
 - Interactive Elements Grade 9 Common Paper For 2013 Mathematics
8. Staying Engaged with Grade 9 Common Paper For 2013 Mathematics
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 9 Common Paper For 2013 Mathematics
9. Balancing eBooks and Physical Books Grade 9 Common Paper For 2013 Mathematics
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 9 Common Paper For 2013 Mathematics
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 9 Common Paper For 2013 Mathematics
- Setting Reading Goals Grade 9 Common Paper For 2013 Mathematics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 9 Common Paper For 2013 Mathematics

- Fact-Checking eBook Content of Grade 9 Common Paper For 2013 Mathematics
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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