

GAUTENG DEPARTMENT OF EDUCATION
PREPARATORY EXAMINATION

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MATHEMATICS
(First Paper)

MEMORANDUM

QUESTION 1 [14]

1.1 $x(x+2) = 0$
 $x = 0$ or $x = -2$

1A factorizing
2 CA for each answer

[3]

1.2 $x \leq -2$ or $x \geq 0$; with $x > 0$
 $\therefore x > 0$

2CA for each inequality
(-1) if "<" is used
1CA for selecting correct inequality
Full marks for answer only.

[3]

1.3
$$x = \frac{-(-3) \pm \sqrt{(-3)^2 - 4(2)(-7)}}{2(2)}$$

$$x = \frac{3 \pm \sqrt{65}}{4}$$

 $x = 2.77$ or $x = -1.27$

1A substitution into correct formula

$\frac{2}{3}$ if left in surd form

2CA for each correct answer

[3]

1.4 $1 + 2^{n-2} + 2^{n-1} + 2^n = 53$
 $2^n(2^{-2} + 2 + 1) = 52$
 $2^n = 16$
 $n = 4$

1A for $2^0 = 1$
1A for factorizing
1A for RHS
1CA
1CA

[5]

QUESTION 2 [10]

2.1.1 $(x+1)^2 - 4 = 16$
 $(x+1)^2 = 20$
 $x+1 = \pm\sqrt{20}$
 $x = \pm 2\sqrt{5} - 1$

OR

$(x+1)^2 - 4 = 16$
 $x^2 + 2x - 19 = 0$
$$x = \frac{-2 \pm \sqrt{(2)^2 - 4(-19)}}{2}$$

 $x = \pm 2\sqrt{5} - 1$

1A squaring both sides
1CA for isolating complete square
1M for taking square root
2CA for each answer

1A squaring both sides
1CA simplification
1CA substitution into correct formula

2CA for each answer

[5]

2.1.2 $k = 0$

1A

[1]

Mathsliteracy Pmidyear 2014 Grade12

Robert A. Fox, Nina K. Buchanan



Mathsliteracy Pmidyear 2014 Grade12:

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

Monitoring Student Achievement in the 21st Century Heidi Harju-Luukkainen, Nele McElvany, Justine Stang, 2020-04-01 This book draws together leading student assessment academics from across Europe exploring student monitoring policies and practices in a range of countries across 22 chapters The chapters in the first part offer a broad overview on student assessment covering history and current status aims and approaches as well as methodological challenges of international student assessment The second part presents country specific chapters provide an in depth look examining country specific policy and practices and findings of national and or international assessments Findings are critically discussed and recommendations are made for further development of each country s assessment context The book shows similarities and differences within the educational assessment landscape as well as complexity and similarities in assessment policy documents and strategies Given the globalized world we live in today this book fills a need in the higher educational context and is intended for policy makers in different countries as well

The Encyclopedia of Middle Grades Education (2nd ed.) Steven B. Mertens, Micki M. Caskey, Nancy Flowers, 2016-08-01 The second edition of The Encyclopedia of Middle Grades Education has been revised updated and expanded since its original publication in 2005 The Encyclopedia is a comprehensive overview of the field it contains alphabetically organized entries that address important concepts ideas terms people organizations publications and research studies specifically related to middle grades education This edition contains over 210 entries from nearly 160 expert contributors this is a 25% increase in the number of entries

over the first edition The Encyclopedia is aimed at a general audience including undergraduate students in middle level teacher preparation programs graduate students higher education faculty and practitioners and administrators The comprehensive list of entries are comprised of both short entries 500 words and longer entries 2000 words A significant number of entries appearing in the first edition have been revised and updated Citations and references are provided for each entry

Mobile Learning and Mathematics Helen Crompton, John Traxler, 2015-02-11 Mobile Learning and Mathematics provides an overview of current research on how mobile devices are supporting mathematics educators in classrooms across the globe Through nine case studies chapter authors investigate the use of mobile technologies over a range of grade levels and mathematical topics while connecting chapters provide a strong foundational background in mobile learning theories instructional design and learner support For current educators Mobile Learning and Mathematics provides concrete ideas and strategies for integrating mobile learning into their mathematics instruction for example by sharing resources that will help implement Common Core State Standards or by streamlining the process of selecting from the competing and often confusing technology options currently available A cutting edge research volume this collection also provides a springboard for educational researchers to conduct further study

[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

Learning to Love Assessment Sherah Betts Carr, Anaya L. Bryson, 2017-07-07 Learning to Love Assessment Unraveling Complexities and Providing Solutions provides educators and stakeholders with two very critical components of the current assessment dialogue One is to understand the historical and legislative components and perceptions that have created the current climate of school accountability measures The second is to deconstruct these complexities and offer concrete solutions for making classroom assessment an enjoyable productive and student owned endeavor The bulk of this book focuses on solutions It offers concrete techniques for educators at all levels to cultivate and implement effective classroom assessment strategies Over 50 unique strategies for formative student peer and self assessment data dialogues technological tools and PBL3 problem project and

performance based assessments are detailed A special feature of the book includes access to a companion web site that contains links and handouts that coordinate with the various classroom assessment strategies In addition each chapter contains reflective pre and post reading questions so the book can be effectively used to supplement professional learning or educational courses

Diverse educational contexts and research on metacognition and motivation to enhance self-directed learning Bernadette Geduld, Byron J. Bunt, Divan Jagals, 2025-02-17 This scholarly book explores the latest education research on metacognition and self directed learning providing practical insights for educators and students As the thirteenth volume in the NWU Self Directed Learning Series it focuses on developing metacognitive skills to enhance self regulation motivation and independent thinking key competencies for success in the 21st century Metacognition plays a vital role in learning helping students plan evaluate and self assess their progress Research shows that students with strong metacognitive strategies achieve better learning outcomes apply knowledge effectively and persist through academic challenges This book offers evidence based teaching strategies to support the development of self regulated learning and motivation in diverse educational settings It examines teaching behaviour and instructional methods that foster metacognitive growth in both basic and higher education With a particular focus on the South African education landscape it extends research in cognitive developmental and applied psychology Researchers and educators will find practical approaches for integrating metacognition into various disciplines making this book a valuable resource for both undergraduate and graduate education programmes

Journal of the House of Representatives of the United States United States. Congress. House, 2006 Some vols include supplemental journals of such proceedings of the sessions as during the time they were depending were ordered to be kept secret and respecting which the injunction of secrecy was afterwards taken off by the order of the House

The Wiley Handbook of School Choice Robert A. Fox, Nina K. Buchanan, 2017-03-13 The Wiley Handbook of School Choice presents a comprehensive collection of original essays addressing the wide range of alternatives to traditional public schools available in contemporary US society A comprehensive collection of the latest research findings on school choices in the US including charter schools magnet schools school vouchers home schooling private schools and virtual schools Viewpoints of both advocates and opponents of each school choice provide balanced examinations and opinions Perspectives drawn from both established researchers and practicing professionals in the U S and abroad and from across the educational spectrum gives a holistic outlook Includes thorough coverage of the history of traditional education in the US its current state and predictions for the future of each alternative school choice

The Mathematics Lesson-Planning Handbook, Grades 6-8 Lois A. Williams, Beth McCord Kobett, Ruth Harbin Miles, 2018-12-28 Your blueprint to planning Grades 6 8 math lessons that lead to achievement for all learners When it comes to planning mathematics lessons do you sometimes feel burdened Have you ever scrambled for an activity to engage your students that aligns with your state standards Do you ever look at a recommended mathematics lesson plan and think

This will never work for my students

The Mathematics Lesson Planning Handbook Your Blueprint for Building Cohesive Lessons Grades 6-8 walks you step by step through the process of planning focused research based mathematics lessons that enhance the coherence rigor and purpose of state standards and address the unique learning needs of your individual students This resource deepens the daily lesson planning process for middle school teachers and offers practical guidance for merging routines resources and effective teaching techniques into an individualized and manageable set of lesson plans The effective planning process helps you Identify learning intentions and connect goals to success criteria Select resources and worthwhile tasks that make the best use of instructional materials Structure lessons differently for traditional and block middle school schedules Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques Facilitate questioning encourage productive struggle and close lessons with reflection techniques This author team of seasoned mathematics educators make lesson planning practical and doable with a useful lesson planning template and real life examples from Grades 6-8 classrooms Chapter by chapter the decision making strategies empower teachers to plan mathematics lessons strategically to teach with intention and confidence and to build purposeful rigorous coherent lessons that lead to mathematics achievement for all learners

Effects of integrated learning: explicating a mathematical concept in inquiry-based science camps Louise Bindel, 2018 Although various arguments for integrated learning of mathematics and science exist empirical evidence that integrated learning is as beneficial as anticipated is limited Therefore this quasi experimental study investigates the effect of integrated learning of mathematics and science on eight student variables by comparing it to a control group Results show that integrated learning is no miracle cure but has positive and negative effects on specific student outcomes Whereas integrated learning effects students view of the relation between mathematics and science positively it effects students scientific self concept negatively Thus integrated learning should not substitute but rather complement disciplinary learning

Obwohl zahlreiche Argumente für das integrierte Lernen von Mathematik und Naturwissenschaften existieren ist die vorteilhafte Wirkung integrierten Lernens begrenzt empirisch belegt Im Rahmen dieser quasi experimentellen Studie wird der Effekt integrierten Lernens auf acht Sch lervariablen durch Vergleiche mit einer Kontrollgruppe untersucht Die Ergebnisse zeigen dass integriertes Lernen kein Allheilmittel ist sondern positive und negative Effekte auf bestimmte Sch lervariablen hat Während integriertes Lernen die Sicht der Sch lerinnen und Sch ler auf die Beziehung zwischen Mathematik und Naturwissenschaften positiv beeinflusst hat es einen negativen Effekt auf das naturwissenschaftliche Selbstkonzept Daher sollte integriertes Lernen nicht stellvertretend sondern ergänzend zu disziplinärem Lernen implementiert werden

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

The Wrong Direction for Today's Schools Ernest J. Zarra III, 2015-07-22 The Wrong Direction for Today s Schools The Impact of Common Core on American Education is an in depth analysis of the newest national American education fad intended to replace the 2002 incarnation of the ESEA No Child Left Behind Zarra delves into the seeds that produced the Common Core Standards as well as the groups involved in the political and corporate pressure to completely revamp America s K 16 education system The author lays out a strong case for political motives involving the advancement for nationalized education such as those found in select European and Asian nations Zarra also follows the funding and provides solid documentation and analysis of international and national assessments and how the funding and assessments proved pivotal in the overhaul of American education After an analysis of the underpinnings of the Common Core Standards Zarra critiques the myths and facts of the Common Core and balances these with the emerging realities impacting average Americans and their families

Zarra's book is a must read and will prove to be extremely useful to all who are concerned about public private and homeschool education in America

Math Instruction for Students with Learning Difficulties Susan Perry Gurganus, 2021-11-29 This richly updated third edition of *Math Instruction for Students with Learning Difficulties* presents a research based approach to mathematics instruction designed to build confidence and competence in preservice and inservice PreK-12 teachers. Referencing benchmarks of both the National Council of Teachers of Mathematics and Common Core State Standards for Mathematics, this essential text addresses teacher and student attitudes towards mathematics as well as language issues, specific mathematics disabilities, prior experiences and cognitive and metacognitive factors. Chapters on assessment and instruction precede strands that focus on critical concepts. Replete with suggestions for class activities and field extensions, the new edition features current research across topics and an innovative thread throughout chapters and strands: multi-tiered systems of support as they apply to mathematics instruction.

OECD Skills Studies: The Survey of Adult Skills Reader's Companion, Second Edition OECD, 2016-06-28 In the wake of the technological revolution that began in the last decades of the 20th century, labour market demand for information processing and other high-level cognitive and interpersonal skills is growing substantially.

Assessing Academic Literacy in a Multilingual Society Albert Weideman, John Read, Theo du Plessis, 2020-11-02 South African universities face major challenges in meeting the needs of their students in the area of academic language and literacy. The dominant medium of instruction in the universities is English and to a much lesser extent Afrikaans, but only a minority of the national population are native speakers of these languages. Nine other languages can be media of instruction in schools, which makes the transition to tertiary education difficult enough in itself for students from these schools. The focus of this book is on procedures for assessing the academic language and literacy levels and needs of students not in order to exclude students from higher education but rather to identify those who would benefit from further development of their ability in order to undertake their degree studies successfully. The volume also aims to bring the innovative solutions designed by South African educators to a wider international audience.

Reconciling Efficiency and Equity Damien Gerard, Ioannis Lianos, 2019-05-09 Provides a new conceptualization of competition law as economic inequality and its interaction with efficiency become of central concern to policy and decision makers.

International Handbook of Mathematical Learning Difficulties Annemarie Fritz, Vitor Geraldi Haase, Pekka Räsänen, 2019-01-30 This comprehensive volume provides teachers, researchers and education professionals with cutting edge knowledge developed in the last decades by the educational, behavioural and neurosciences, integrating cognitive, developmental and socioeconomic approaches to deal with the problems children face in learning mathematics. The neurocognitive mechanisms and the cognitive processes underlying acquisition of arithmetic abilities and their significance for education have been the subject of intense research in the last few decades, but the most part of this research has been conducted in non-applied settings and there's still a deep discrepancy between the level of scientific

knowledge and its implementation into actual educational settings Now it s time to bring the results from the laboratory to the classroom Apart from bringing the theoretical discussions to educational settings the volume presents a wide range of methods for early detection of children with risks in mathematics learning and strategies to develop effective interventions based on innovative cognitive test instruments It also provides insights to translate research knowledge into public policies in order to address socioeconomic issues And it does so from an international perspective dedicating a whole section to the cultural diversity of mathematics learning difficulties in different parts of the world All of this makes the International Handbook of Mathematical Learning Difficulties an essential tool for those involved in the daily struggle to prepare the future generations to succeed in the global knowledge society

OECD Skills Studies The Survey of Adult Skills

Reader's Companion, Third Edition OECD,2019-11-15 This edition of the Reader s Companion accompanies Skills Matter Additional Results from the Survey of Adult Skills that reports the results from the 39 countries and regions that participated in the 3 rounds of data collection in the first cycle of PIAAC with a particular focus on the 6 countries that participated in the third round of the study Ecuador Hungary Kazakhstan Mexico Peru and the United States It describes the design and methodology of the survey and its relationship to other international assessments of young students and adults

The American Middle Class Robert S. Rycroft,2017-05-12 What is the American Dream This book s author argues that contrary to what many believe it is not achieving the wealth necessary to enter the top one percent but rather becoming members of the great middle class by dint of hard work and self discipline Americans of all classes consider themselves to be middle class There are Americans who by any objective standard should be considered poor who would insist they are middle class just as other Americans who should be considered wealthy also insist they are middle class Thinking of yourself and being thought of by others as middle class is the American Dream for tens of millions of people But an enduring problem of the American middle class is the worry that the Dream is coming apart that forces are lurking in the shadows waiting to steal their progress and throw them back into poverty This thought provoking reference explores a disparate multitude of issues associated with being middle class in America It addresses a range of questions and subtopics including the meaning of the term middle class how middle class status is expressed by both the majority and the various minorities that make up the American mosaic what economic pressures are bearing down on the middle class and how economists and others attempt to make sense of the economic issues of the day Readers will also better understand how political institutions and public policies are shaping the way the middle class views the world how labor housing education and crime related issues have influenced the development and growth of the middle class the norms of the middle class versus those of other classes in society and the role of culture and media in shaping how members of the middle class view themselves and how they are viewed by others This two volume set provides a comprehensive look at the American middle class that supports student research in economics social studies cultural studies and political history The content supports teachers in their development

of lesson plans and assignments that directly align with the Common Core State Standards and the recommendations of the National Curriculum Standards for Social Studies NCSS with respect to all ten NCSS themes

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