

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

**DJ Losen**



## **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

*Teaching Middle Years* Donna Pendergast, Katherine Main, Nan Bahr, 2024-11-15 Teaching Middle Years has established itself as the leading text to focus on the adolescent years of schooling Recognition of the educational importance of this age group continues to grow as research reveals the benefits of programs designed especially for young people s needs With a renewed approach this fourth edition includes new chapters on Indigenous Knowledges STEAM education and sustainable practices A trusted resource the book continues to provide a systematic overview of the philosophy principles and key issues in middle schooling together with an enhanced focus on the emotional and developmental challenges unique to this age group There is an emphasis on creating positive learning environments engaging relational pedagogies achieving effective transition the importance of physical activity and health in adolescence and developing cooperative and collaborative learning Further there is an enhanced focus on practical applications right throughout the book Featuring contributions from leading experts in the field and fully revised and updated to reflect the latest research Teaching Middle Years will assist both pre service and in service teachers to bring out the very best in their students

*Teaching Middle Years* Donna Pendergast, 2020-07-16 Teaching Middle Years has established itself as the most respected Australian text to focus on the adolescent years of schooling Recognition of the educational importance of this age group continues to grow as research reveals the benefits of programs designed especially for young people s needs This third edition provides a systematic overview of the philosophy principles and key issues in middle schooling together with a new depth of focus on the emotional problems and behavioural challenges in working with students The editors explore in detail two key areas in middle years pedagogy differentiation and engagement and there are new chapters on achieving effective transition the importance of physical activity in adolescence and how to develop

cooperative and collaborative learning Featuring contributions from leading experts in the field and fully revised and updated to reflect the latest research Teaching Middle Years will assist both pre service and in service teachers to bring out the very best in their students Praise for the first edition Teaching Middle Years gives the reader many ideas and examples based on sound research It s an excellent coverage of the current thinking in this critical area of education from Teacher The National Education Magazine Offers educators a combination of theoretical constructions based on Australian and international research and practical suggestions for teaching middle years students based on the proven good practices of many effective middle years teachers from the Australian Journal of Middle Schooling This book should be required reading for every middle school leader who strives to better understand and facilitate middle level learning and achievement from Choice Current Reviews for Academic Libraries

***Men's Issues and Men's Mental Health*** Rob Whitley, 2021-11-15 Traditionally men s mental health woes have been attributed to male stubbornness and rigid notions of masculinity However there is growing recognition that mental health issues in men are socially determined by a range of factors including family educational occupational and legal issues These and a variety of other social issues have been collectively labelled men s issues and are being increasingly linked to negative men s mental health outcomes This book gives an overview of men s mental health as well as related men s issues adopting a public health inspired approach examining the research linking social exposures and mental health outcomes The book is unique in that it synthesizes and explores men s issues men s mental health and social determinants in a holistic and integrated manner through assessment of the social scientific and psychiatric literature In this book the author discusses the social determinants of men s mental health and accompanying psychosocial interventions moving beyond one dimensional discussions of masculinity Among the topics covered are The Social Determinants of Male Suicide Attention Deficit Hyperactivity Disorder in Young Males The Medicalization of Boyhood Why Do Men Have Low Rates of Formal Mental Health Service Utilization An Analysis of Social and Systemic Barriers to Care and Discussion of Promising Male Friendly Practices The Gender Gap in Education Understanding Educational Underachievement in Young Males and its Relationship to Adverse Mental Health Employment Unemployment and Workplace Issues in Relation to Men s Mental Health Men s Issues and Men s Mental Health An Introductory Primer is essential reading for healthcare practitioners and social service providers including psychiatrists psychologists social workers occupational therapists counsellors teachers charity workers health promotion specialists and public health officers It is also a useful text for graduate and advanced undergraduate students in health care social services public health epidemiology and social sciences particularly sociology psychology and gender studies Finally the book can be read and understood by an intelligent lay reader making it accessible for the wider public

***School Leadership in Diverse Contexts*** Simon Clarke, Tom O'Donoghue, 2015-11-06 School Leadership in Diverse Contexts demonstrates the centrality of context to understanding school leadership It offers varied portrayals of leadership in a diverse range of distinct settings Each chapter highlights the prominence of context in

understanding the realities of school leadership focusing on issues and influences that school leaders face strategies school leaders adopt to deal with the complexities of their work and conceptualisations of school leadership relevant to the context An impressive array of international experts examine this neglected area of research by considering school leadership in nine heterogeneous contexts providing rich and varied portrayals of school leadership and suggesting ways in which the leadership may be enhanced School Leadership in Diverse Contexts is an ideal book for undergraduate and postgraduate students particularly those studying units in educational leadership comparative education and educational policy Similarly undergraduate and postgraduate students engaged with development studies history sociology law human geography will be attracted to this text Assessing English Language Learners: Bridges to Educational Equity Margo Gottlieb, 2016-03-03 Build the bridges for English language learners to reach success This thoroughly updated edition of Gottlieb's classic delivers a complete set of tools techniques and ideas for planning and implementing instructional assessment of ELLs The book includes A focus on academic language use in every discipline from mathematics to social studies within and across language domains Emphasis on linguistically and culturally responsive assessment as a key driver for measuring academic achievement A reconceptualization of assessment as for and of learning Reflection questions to stimulate discussion around how students teachers and administrators can all have a voice in decision making *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

## **Mathslitercy Pmidyear 2014 Grade12** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has be more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Mathslitercy Pmidyear 2014 Grade12**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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### **Table of Contents Mathslitercy Pmidyear 2014 Grade12**

1. Understanding the eBook Mathslitercy Pmidyear 2014 Grade12
  - The Rise of Digital Reading Mathslitercy Pmidyear 2014 Grade12
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathslitercy Pmidyear 2014 Grade12
  - 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 Mathslitercy Pmidyear 2014 Grade12
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathslitercy Pmidyear 2014 Grade12
  - Personalized Recommendations
  - Mathslitercy Pmidyear 2014 Grade12 User Reviews and Ratings

- Mathsliteracy Pmidyear 2014 Grade12 and Bestseller Lists
- 5. Accessing Mathsliteracy Pmidyear 2014 Grade12 Free and Paid eBooks
  - Mathsliteracy Pmidyear 2014 Grade12 Public Domain eBooks
  - Mathsliteracy Pmidyear 2014 Grade12 eBook Subscription Services
  - Mathsliteracy Pmidyear 2014 Grade12 Budget-Friendly Options
- 6. Navigating Mathsliteracy Pmidyear 2014 Grade12 eBook Formats
  - ePub, PDF, MOBI, and More
  - Mathsliteracy Pmidyear 2014 Grade12 Compatibility with Devices
  - Mathsliteracy Pmidyear 2014 Grade12 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathsliteracy Pmidyear 2014 Grade12
  - Highlighting and Note-Taking Mathsliteracy Pmidyear 2014 Grade12
  - Interactive Elements Mathsliteracy Pmidyear 2014 Grade12
- 8. Staying Engaged with Mathsliteracy Pmidyear 2014 Grade12
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathsliteracy Pmidyear 2014 Grade12
- 9. Balancing eBooks and Physical Books Mathsliteracy Pmidyear 2014 Grade12
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathsliteracy Pmidyear 2014 Grade12
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mathsliteracy Pmidyear 2014 Grade12
  - Setting Reading Goals Mathsliteracy Pmidyear 2014 Grade12
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathsliteracy Pmidyear 2014 Grade12
  - Fact-Checking eBook Content of Mathsliteracy Pmidyear 2014 Grade12
  - 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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web q14 state the law of refraction of light that defines the refractive index of a medium with respect to the other express it mathematically how is the refractive index of any medium a with respect to a medium b related to the speed of propagation of light in two media a and b state the name of this constant

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