



This memorandum consists of 9 pages.

Important information:

- This is a marking guideline. In instances where learners have used different but mathematically sound strategies to solve the problems they (learners) should be credited.
- Unless stated otherwise, learners who give a correct answer only, should be awarded full marks.
- Underline errors committed by learners and apply Consistent Accuracy (CA) marking.
- Do not penalise learners if units of measurement are omitted.

KEY	
M	Method mark
CA	Consistent Accuracy mark
A	Accuracy mark

QUESTION 1

1.	1.1	D	1.2	C	1.3	B	1.4	A	1.5	D	Give 1 mark for each correct answer.	[10]
	1.6	C	1.7	C	1.8	D	1.9	B	1.10	D		

QUESTION 2

2.1	2.07×10^{-7} ✓A			Answer: 1 mark	(1)
2.2.1	$\sqrt[3]{73 - (-3)^2} = \sqrt[3]{73 - 9}$ $= \sqrt[3]{64}$ ✓M $= 4$ ✓CA			Calculation: 1 mark Answer: 1 mark (Answer only: 1 mark) (If the answer is a decimal number, no mark.)	(2)
2.2.2	$\sqrt{100} < \sqrt{110} < \sqrt{121}$ ✓M $10 < \sqrt{110} < 11$ ✓A			$\sqrt{100}$ and $\sqrt{121}$: 1 mark Answer: 1 mark (Answer only: 1 mark)	(2)
2.2.3	$\frac{3 \times 5^3}{5^2} = 3 \times 5^1$ ✓M $= 75$ ✓CA			Applying exponential law: 1 mark Answer: 1 mark (Answer only: 1 mark)	(2)
2.3	$1.03 \times 10^{-2} + 3.8 \times 10^{-3}$ $= 0.0103 + 0.0038$ ✓M $= 0.0141$ ✓CA			Simplification: 1 mark Answer: 1 mark (Answer only: 1 mark)	(2)
	or			or	
	$= 10^{-2}(1.03 + 0.38)$ ✓M $= 10^{-2}(1.41)$ $= 0.0141$ ✓CA	or	$= 10^{-2}(1.03 + 0.38)$ ✓M $= 10^{-2}(1.41)$ $= 0.0141$ ✓CA	Taking out common factor: 1 mark Answer: 1 mark (Answer only: 1 mark)	
					[9]

Maths Ana Grade 9 2014

**Mpumalanga (South Africa).
Department of Education**



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Improving Primary Mathematics Education, Teaching and Learning Mellony Graven, Hamsa Venkat, 2017-01-19 This book focuses on how to improve the teaching and learning of primary level mathematics education within resource constrained contexts. It builds on two large numeracy projects within South Africa which speak to broader global concerns and highlight how research and development not only enables one to meet ethical imperatives but also explore how further interventions can be developed. Teacher and research communities must work together to create mutually beneficial relationships and establish a cohesive understanding of the requirements of primary mathematics education.

International Handbook of Teacher Education John Loughran, Mary Lynn Hamilton, 2016-05-04 The International Handbooks of Teacher Education cover major issues in the field through chapters that offer detailed literature reviews designed to help readers to understand the history, issues and research developments across those topics most relevant to the field of teacher education from an international perspective. This volume is divided into two sections: The organisation and structure of teacher education and knowledge and practice of teacher education. The first section explores the complexities of teacher education including the critical components of preparing teachers for teaching and various aspects of teaching and teacher education that create tensions and strains. The second examines the knowledge and practice of teacher education including the critical components of teachers' professional knowledge, the pedagogy of teacher education and their interrelationships and delves into what we know and why it matters in teacher education.

Merging Numeracy with Literacy Practices for Equity in Multilingual Early Year Settings Robyn Jorgensen, Mellony Graven, 2022-01-01 This book draws on both in and out of school literacy practices with teachers and families to enhance the numeracy of early learners. It provides highly illustrative exemplars targeted for learners up to approximately eight years of age whose home language differs from the language of instruction. It identifies the challenges faced by these learners and their families and shares ways of building both literacy and numeracy skills for some of the vulnerable learners nationally and internationally. The book shares the outcomes and strategies for teaching mathematics to early years learners and highlights the importance of literacy practices for learners for whom the language of instruction is different from their home language. Readers will gain a practical sense of how to create contexts, classrooms and practices to scaffold these learners to build robust understandings of mathematics.

Predictive Models for School Leadership and Practices Amzat, Ismail Hussein, 2018-09-07 A successful administrator is one who applies suitable or appropriate leadership styles in various situations or contexts. It is crucial to investigate how effective administrators lead their organizations in challenging and difficult times as well as promote the accomplishments of their organization. *Predictive Models for School Leadership and Practices* is an essential reference source that discusses academic administration as well as administrative effectiveness in achieving organizational goals. Featuring research on topics such as teacher collaboration, school crisis management and ITC integration, this book is ideally designed for principals, researchers, academics, educational

policymakers and teachers seeking coverage on academic leadership and leadership models Education in a New South Africa Robert J. Balfour, 2015-09-24 A collaborative series with the University of Cambridge Faculty of Education highlighting leading edge research across Teacher Education International Education Reform and Language Education World Yearbook of Education 2021 Sotiria Grek, Christian Maroy, Antoni Verger, 2020-11-26 Providing a comprehensive introduction to the topic of accountability and datafication in the governance of education the World Yearbook of Education 2021 considers global policy dynamics and policy enactment processes Chapters pay particular attention to the role of international organizations and the private sector in the promotion of performance based accountability PBA in different educational settings and at multiple policy scales Organized into three sections chapters cover the global local construction of accountability and datafication global discourse and national translations of performance based accountability policies and enactments and effects of accountability and datafication including controversies and critical issues With carefully chosen international contributions from around the globe the World Yearbook of Education 2021 is ideal reading for anyone interested in the future of accountability and datafication in the governance of education *Annual Performance Plan* Mpumalanga (South Africa). Department of Education, 2015 **4th International Conference on Computational Mathematics and Engineering Sciences (CMES-2019)** Hemen Dutta, Zakia Hammouch, Hasan Bulut, Hacı Mehmet Baskonus, 2020-01-10 This book gathers original research papers presented at the 4th International Conference on Computational Mathematics and Engineering Sciences held at Akdeniz University Antalya Turkey on 20-22 April 2019 Focusing on computational methods in science mathematical tools applied to engineering mathematical modeling and new aspects of analysis the book discusses the applications of mathematical modelling in areas such as health science engineering computer science social science and economics It also describes a wide variety of analytical computational and numerical methods The conference aimed to foster cooperation between students and researchers in the areas of computational mathematics and engineering sciences and provide a platform for them to share significant research ideas This book is a valuable resource for graduate students researchers and educators interested in the mathematical tools and techniques required for solving various problems arising in science and engineering and understanding new methods and uses of mathematical analysis Abstract Mathematical Cognition Wolfgang Grodd, Philippe Chassy, 2016-08-09 Despite the importance of mathematics in our educational systems little is known about how abstract mathematical thinking emerges Under the uniting thread of mathematical development we hope to connect researchers from various backgrounds to provide an integrated view of abstract mathematical cognition Much progress has been made in the last 20 years on how numeracy is acquired Experimental psychology has brought to light the fact that numerical cognition stems from spatial cognition The findings from neuroimaging and single cell recording experiments converge to show that numerical representations take place in the intraparietal sulcus Further research has demonstrated that supplementary neural networks might be recruited

to carry out subtasks for example the retrieval of arithmetic facts is done by the angular gyrus Now that the neural networks in charge of basic mathematical cognition are identified we can move onto the stage where we seek to understand how these basics skills are used to support the acquisition and use of abstract mathematical concepts

Annual Report Mpumalanga (South Africa). Department of Education,2016

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The Theory of Information and Coding Robert J. McEliece,1977 This is a self contained introduction to the theory of information and coding It can be used either for self study or as the basis for a course at either the graduate or undergraduate level The text includes dozens of worked examples and several hundred problems for solution

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