



**GRADE 9 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1**

QUESTION 1

Choose and write the correct letter on your answer sheet.

1.1 The constant value in the expression $2x^2 + 3x + 2$ is (3)

- A 3
- B 2
- C 1
- D 0

1.2 How many terms are in the expression $2x^2 + 3x + 2$? (3)

- A 1
- B 2
- C 3
- D 4

1.3 Determine the following two terms in the sequence $1, 3, 5, 7, \dots$ (3)

- A 48; 50
- B 48; 51
- C 49; 50
- D 49; 51

1.4 Prime numbers that lie between 8 and 22: (3)

- A 11, 13, 17, 19
- B 11, 17, 19, 23
- C 11, 13, 17, 19, 23
- D 11, 13, 17, 19, 23, 29

1.5 $\sqrt{324}$ is (3)

- A 37
- B 74
- C 18
- D 180

1.6 If $x = 2$, the value of $3x^2 + 4x$ would be: (3)

- A 16
- B 20
- C 28
- D 32

6 x 1 = 6

QUESTION 2: WHOLE NUMBERS & INTEGERS

2.1 Write 345:15 in it's simplest form. (2)

2.2 If 10 masons can build a house in 200 days, how many masons, working at the same rate, will be needed to build the house in 4 days? (3)

2.3 John drove 620km in 5 and a half hours. Calculate his average speed in km/h. (3)

2.4 Write the number 2000 as a product of its prime factors. Write the prime factors in exponential form. (4)

2.5 Calculate the following:

- 2.5.1 $2^3 \times 3^2 \times 5$ (3)
- 2.5.2 $2^3 \times 3^2 \times 5^2$ (3)

[14]

QUESTION 3: EXPONENTS

3.1 $5^2 \times \sqrt{5} + 5^2$ (2)

3.2 $5^2 \times 5^3$ (2)

3.3 $\frac{5^2}{5^3}$ (3)

3.4 $\sqrt{5^2 \times 5^3}$ (3)

[10]

2014 November Maths Paper 1 Grade 10

**Albert Weideman, John Read, Theo du
Plessis**



2014 November Maths Paper 1 Grade 10:

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

Education in the United Arab Emirates Kay Gallagher, 2019-05-17 This book provides an overview of the evolution of education in the United Arab Emirates from its humble beginnings in palm frond huts to today's proliferation of prestigious international schools and global university branch campuses The chapter authors are academic experts who have extensive first hand experience of contemporary developments in the country's various educational sectors The book addresses innovations and transformations in Early Childhood Education Higher Education K 12 Schooling Language Education in Arabic and English Quality Assurance Special Needs STEM Education and Teacher Education and Professional Development

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

South African national

bibliography, 1999 Classified list with author and title index Helping Children Learn Mathematics Robert Reys, Mary Lindquist, Diana V. Lambdin, Nancy L. Smith, Anna Rogers, Audrey Cooke, Sue Bennett, Bronwyn Ewing, John West, 2020-01-21 The third edition of Reys Helping Children Learn Mathematics is a practical resource for undergraduate students of primary school teaching Rich in ideas tools and stimulation for lessons during teaching rounds or in the classroom this edition continues to provide a clear understanding of how to navigate the Australian Curriculum with detailed coverage on how to effectively use Information and Communications Technology ICT in the classroom This is a full colour printed textbook with an interactive ebook code included Great self study features include auto graded in situ knowledge check questions video of teachers demonstrating how different maths topics can be taught in the classroom and animated branched chain scenarios are in the e text **Helping Children Learn Mathematics, 5th Australian Edition** Robert Reys, Mary Lindquist, Diana V. Lambdin, Nancy L. Smith, Anna Rogers, Leicha Bragg, Audrey Cooke, Melissa Fanshawe, Mark Gronow, 2025-10-10 *Human Resource Management, 11th Edition* Raymond J. Stone, Anne Cox, Mihajla Gavin, Joseph Carpini, 2024-06-04 The new edition of Raymond Stone s Human Resource Management is an AHRI endorsed title that has evolved into a modern relevant and practical resource for first year HRM students This concise 15 chapter textbook gives your students the best chance of transitioning successfully into their future profession by giving them relatable professional insights and encouragement to exercise their skills in authentic workplace scenarios **Psychology and Mathematics Education** Gila Hanna, Laura Macchi, Karin Binder, Laura Martignon, Katharina Loibl, 2023-09-05 Modern Mathematics is constructed rigorously through proofs based on truths which are either axioms or previously proven theorems Thus it is par excellence a model of rational inquiry Links between Cognitive Psychology and Mathematics Education have been particularly strong during the last decades Indeed the Enlightenment view of the rational human mind that reasons makes decisions and solves problems based on logic and probabilities was shaken during the second half of the twentieth century Cognitive psychologists discovered that humans thoughts and actions often deviate from rules imposed by strict normative theories of inference Yet these deviations should not be called errors as Cognitive Psychologists have demonstrated these deviations may be either valid heuristics that succeed in the environments in which humans have evolved or biases that are caused by a lack of adaptation to abstract information formats Humans as the cognitive psychologist and economist Herbert Simon claimed do not usually optimize but rather satisfice even when solving problem This Research Topic aims at demonstrating that these insights have had a decisive impact on Mathematics Education We want to stress that we are concerned with the view of bounded rationality that is different from the one espoused by the heuristics and biases program In Simon s bounded rationality and its direct descendant ecological rationality rationality is understood in terms of cognitive success in the world correspondence rather than in terms of conformity to content free norms of coherence e g transitivity Technology and Innovation in Learning, Teaching and Education Arsénio Reis, José P. Cravino, Leontios Hadjileontiadis, Paulo Martins, Sofia B. Dias, Sofia

Hadjileontiadou, Tassos Mikropoulos, 2025-08-21 The three volume set CCIS 2479 2481 constitutes the proceedings of the 4th International Conference on Technology and Innovation in Learning Teaching and Education TECH EDU 2024 held in Abu Dhabi United Arab Emirates during November 13 15 2024 The 79 full papers presented in this volume were carefully reviewed and selected from 167 submissions The papers are organized in the following topical sections Part I Artificial Intelligence in Education Emerging Technologies and Learning Environments Part II Open Education Digital Resources and Online Assessment Pedagogical and Curricular Innovation Part III Technology Integration and Educational Policy *Social Sciences and Interdisciplinary Behavior* Ford Lumban Gaol, Fonny Hutagalung, Nailya Bagautdinova, Lenar Safiullin, 2016-09-19 *Social Sciences and Interdisciplinary Behavior* contains papers that were originally presented at the 4th International Congress on Interdisciplinary Behavior and Social Science 2015 ICIBSoS 2015 held 22 23 October 2015 at The Institute of Management Economics and Finance of the Kazan Federal University Kazan Russia and 7 8 November 2015 in Arya Duta Hotel Jakarta Indonesia The contributions deal with various interdisciplinary research topics particularly in the fields of social sciences education economics and arts The papers focus especially on such topics as language cultural studies economics behavior studies political sciences media and communication psychology and human development

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