



basic education

Department
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS NATIONAL SENIOR CERTIFICATE EXAMINATIONS

MATHEMATICS P1

2021

MARKS: 100

TIME: 1 hour

This question paper consists of 10 pages and 1 information sheet.

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1406/2021

QUESTION 1

- 1.1 Solve for x :
 - 1.1.1 $x^2 + 3x + 2 = 0$ (5)
 - 1.1.2 $3x^2 + x - 4 = 0$ (Show partial solution in TWO distinct parts) (10)
 - 1.1.3 $x^2 = 49$ (5)
- 1.2 Given $y = \frac{3x^2 + 5}{x}$
 - 1.2.1 Solve for x (5)
 - 1.2.2 Hence solve for x : $2x^2 + 22x = 48$ (5)
- 1.3 Without using a calculator, calculate the value of $\sqrt{\frac{36x^2 + 25}{121x^2}}$ (5)
- 1.4 Solve for x and y simultaneously:
 $(x + y + 2) = \frac{1}{x}$ and $\frac{1}{y} = 4y + 1$ (10)

QUESTION 2

- 2.1 The first term of an arithmetic sequence is 2 and the 17th term is 38.
 Determine:
 - 2.1.1 d , the common difference of the sequence (5)
 - 2.1.2 The number of terms in the sequence if the last term of the sequence is 47 (5)
 - 2.1.3 The sum of the first 10 terms in the sequence (5)
- 2.2 $16, 25, 36, 49, \dots$ is a quadratic number pattern.
 - 2.2.1 Write down the 10th term of the number pattern (5)
 - 2.2.2 Determine the n^{th} term of the number pattern (5)
 - 2.2.3 Determine the maximum value of the following number pattern:
 $-12, -\frac{11}{2}, -\frac{9}{2}, -\frac{7}{2}, \dots$ (5)

Grade 1 mathematics Paper2 June 2014

K Payea



Grade 1 mathematics Paper2 June 2014:

Mathematics and Transition to School Bob Perry, Amy MacDonald, Ann Gervasoni, 2015-01-09 This edited book brings together for the first time an international collection of work focused on two important aspects of any young child's life learning mathematics and starting primary or elementary school The chapters take a variety of perspectives and integrate these two components in sometimes explicit and sometimes more subtle ways The key issues and themes explored in this book are the mathematical and other strengths that all participants in the transition to school bring to this period of a child's life the opportunities provided by transition to school for young children's mathematics learning the importance of partnerships among adults and among adults and children for effective school transitions and mathematics learning and teaching the critical impact of expectations on their mathematics learning as children start school the importance of providing children with meaningful challenging and relevant mathematical experiences throughout transition to school the entitlement of children and educators to experience assessment and instructional pedagogies that match the strengths of the learners and the teachers the importance for the aspirations of children families communities educators and educational organisations to be recognised as legitimate and key determinants of actions experiences and successes in both transition to school and mathematics learning and the belief that young children are powerful mathematics learners who can demonstrate this power as they start school In each chapter authors reflect on their work in the area of mathematics and transition to school place that work within the overall context of research in these fields predict the trajectory of this work in the future and consider the implications of the work both theoretically and practically

Proceedings of Mechanical Engineering Research Day 2017 Mohd Fadzli Bin Abdollah, Tee Boon Tuan, Mohd Azli Salim, Mohd Zaid Akop, Rainah Ismail, Haslinda Musa, 2017-05-29 This e book is a compilation of papers presented at the Mechanical Engineering Research Day 2017 MERD 17 Melaka Malaysia on 30 March 2017

Daily Graphic Ransford Tetteh, 2014-03-24

Executive Function and Education Mariëtte Huizinga, Dieter Baeyens, Jacob A. Burack, 2018-09-21 Executive function is an umbrella term for various cognitive processes that are central to goal directed behavior thoughts and emotions These processes are especially important in novel or demanding situations which require a rapid and flexible adjustment of behavior to the changing demands of the environment The development of executive function relies on the maturation of associated brain regions as well as on stimulation in the child's social contexts especially the home and school Over the past decade the term executive function has become a buzzword in the field of education as both researchers and educators underscore the importance of skills like goal setting planning and organizing in academic success Accordingly in initiating this Research Topic and eBook our goal was to provide a forum for state of the art theoretical and empirical work on this that both facilitates communication among researchers from diverse fields and provides a theoretically sound source of information for educators The contributors to this volume who hail from several different countries in Europe and North America have certainly accomplished this goal in

their nuanced and cutting edge depictions of the complex links among various executive function components and educational success

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

ICIE 2014 Proceedings of the 2nd International Conference on Innovation and Entrepreneurship Academic Conferences and Publishing Limited, 2014-06-02

Teaching Mathematics Creatively Linda Pound, Trisha Lee, 2021-09-30 This revised and updated third edition offers a range of strategies activities and ideas to bring mathematics to life in the primary classroom Taking an innovative and playful approach to maths teaching this book promotes creativity as a key element of practice and offers ideas to help your students develop knowledge understanding and enjoyment of the subject In the creative classroom mathematics becomes a tool to build confidence develop problem solving skills and motivate children The fresh approaches explored in this book include a range of activities such as storytelling music and construction elevating maths learning beyond subject knowledge itself to enable students to see mathematics in a new way Key chapters of this book explore Learning maths outdoors make more noise make more mess or work on a larger scale Everyday maths making sense of the numbers patterns shapes and measures children see around them Music and maths the role of rhythm in learning and music and pattern in maths Stimulating accessible and underpinned by the latest research and theory this is essential reading for trainee and practising teachers who wish to embed creative approaches to maths teaching in their classroom

Effectiveness of teachers' guides in the Global South Benjamin Piper, Yasmin Sitabkhan, Jessica Mejia, Kellie Betts, 2018-05-10 This report presents the results of RTI International Education's study on teachers guides across 13 countries and 19 projects Using quantitative and qualitative

methods we examine how teachers guides across the projects differ and find substantial variation in the design and structure of the documents We develop a scripting index so that the scripting levels of the guides can be compared across projects The impact results of the programs that use teachers guides show significant impacts on learning outcomes associated with approximately an additional half year of learning showing that structured teachers guides contribute to improved learning outcomes During observations we find that teachers make a variety of changes in their classroom instruction from how the guides are written showing that the utilization of structured teachers guides do not create robotic teachers unable to use their own professional skills to teach children Unfortunately many changes that teachers make reduce the amount of group work and interactivity that was described in the guides suggesting that programs should encourage teachers to more heavily utilize the instructional routines designed in the guide The report includes a set of research based guidelines that material developers can use to develop teachers guides that will support effective instructional practices and help improve learning outcomes The key takeaway from the report is that structured teachers guides improve learning outcomes but that overly scripted teachers guides are somewhat less effective than simplified teachers guides that give specific guidance to the teacher but are not written word for word for each lesson in the guide , On My Own Xueli Wang,2021-02-18 2020 ASHE Council for the Advancement of Higher Education Programs CAHEP Barbara Townsend Lecture Award 2021 Transfer Champion Catalyst Award from the National Institute for the Study of Transfer Students NISTS 2021 Outstanding Publication Award AERA Division J Publication and Research On My Own The Challenge and Promise of Building Equitable STEM Transfer Pathways is the first book of its kind to provide a detailed on the ground examination of the difficult paths curricular interpersonal and institutional that students must chart through community college The book follows 1 670 two year college students over four years as they begin STEM programs in the Midwest and documents their educational and life experiences as they moved toward or away from the prospect of transfer to a four year institution Their stories reveal that they were on their own left to navigate the pathways to transfer without meaningful institutional support The students pursued one of four pathways or momentum trajectories linear upward detoured deferred or taking a break The preexisting and lasting disparities in their access to education and financial resources their experiences with teaching and advising and the conundrum between support from and for family among others propelled them onto different trajectories in their quest for transfer As this book makes painfully clear the current state of transfer acts as a mechanism that perpetuates and worsens inequities in educational outcomes As Xueli Wang argues to cultivate an equitable STEM transfer pathway culturally relevant and responsive supports that are accessible welcoming and validating must be put in place at the institutional level and appeal to the talent motivation and unique needs of historically marginalized students In doing so postsecondary institutions will be better positioned to fulfill their promise as an equitable pathway to bachelor s degrees and beyond 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

Global Approaches to Early Learning Research and Practice Kenneth R. Pugh,Peggy McCardle,Annie Stutzman,2018-01-24 The health development and learning of many young children living in disadvantage areas are at serious risk Access to education has improved under the United Nations Millennium Development Goals and there are now programs in low and middle income countries that are aimed at improving instruction and learning The research and evaluation on the effectiveness of such programs show there are significant challenges but also some successes This issue features presentations of leading international scientists representatives from key governmental and non governmental organizations and others working with programs in the developing world and disadvantaged populations The presentations describe the goals existing challenges and potential approaches to providing evidence based programs to young children in rural remote and poverty stricken areas Topics covered include the state of early childhood in low and middle income nations programs that have shown some success and innovative research approaches that have been often considered unfeasible in these contexts This is the 158th volume in this Jossey Bass series New Directions for Child and Adolescent Development Its mission is to provide scientific and scholarly presentations on cutting edge issues and concepts in this subject area Each volume focuses on a specific new direction or research topic and is edited by experts from that field **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

The Boy Crisis Warren Farrell, John Gray, 2018-03-13 What is the boy crisis It's a crisis of education Worldwide boys are 50 percent less likely than girls to meet basic proficiency in reading math and science It's a crisis of mental health ADHD is on the rise And as boys become young men their suicide rates go from equal to girls to six times that of young women It's a crisis of fathering Boys are growing up with less involved fathers and are more likely to drop out of school drink do drugs become delinquent and end up in prison It's a crisis of purpose Boys' old sense of purpose being a warrior a leader or a sole breadwinner are fading Many bright boys are experiencing a purpose void feeling alienated withdrawn and addicted to immediate gratification So what is The Boy Crisis A comprehensive blueprint for what parents teachers and policymakers can do to help our sons become happier healthier men and fathers and leaders worthy of our respect

Active Learning, 2022-12-14 This book provides theoretical answers applied methodological models and didactic experiences that seek to reflect and analyze the potentialities and challenges of the active learning concept in STEAM disciplines and social sciences education It also contributes to the understanding intervention and resolution of contemporary social problems and to the United Nations Sustainable Development Goals through the design implementation and evaluation of educational programs that incorporate integrated active learning as one of its explanatory axes

The Wiley Handbook of Global Educational Reform Kenneth J. Saltman, Alexander J. Means, 2018-08-30 The Wiley Handbook of Global Educational Reform examines educational reform from a global perspective Comprised of approximately 25 original and specially commissioned essays which together interrogate educational reform from a critical global and transnational perspective this volume explores a range of topics and themes that fully investigate global convergences in educational reform policies ideologies and practices The Handbook probes the history ideology organization and institutional foundations of global educational reform movements actors institutions and agendas and local national and global education reform trends It further examines the new managerialism in global educational reform including the standardization of national systems of educational governance curriculum teaching and learning through the rise of new systems of privatization accountability audit big data learning analytics biometrics and new technology driven adaptive learning models Finally it takes on the subjective and intersubjective experiential dimensions of the new educational reforms and alternative paths for educational reform tied to the ethical imperative to reimagine education for human flourishing justice and equality An authoritative definitive volume and the first global take on a subject that is grabbing headlines as well as preoccupying policy makers scholars and teachers around the world Edited by distinguished leaders in the field Features contributions from an

illustrious list of experts and scholars The Wiley Handbook of Global Educational Reform will be of great interest to scholars and graduate students of education throughout the world as well as the policy makers who can institute change

Mathematics Education in the Early Years Tamsin Meaney, Ola Helenius, Maria L. Johansson, Troels Lange, Anna Wernberg, 2016-01-22 This book presents chapters based on papers presented at the second POEM conference on early mathematics learning These chapters broaden the discussion about mathematics education in early childhood by exploring the debate about construction versus instruction Specific sections investigate the teaching and learning of mathematical processes and mathematical content early childhood teacher development transitions for young children between home and preschool between home and school and between preschool and school The chapters use a range of innovative theoretical and methodological approaches which will form an interesting basis for future research in this area

Rational Numbers to Linear Equations Hung-Hsi Wu, 2020-06-18 This is the first of three volumes that together give an exposition of the mathematics of grades 9 12 that is simultaneously mathematically correct and grade level appropriate The volumes are consistent with CCSSM Common Core State Standards for Mathematics and aim at presenting the mathematics of K 12 as a totally transparent subject The present volume begins with fractions then rational numbers then introductory geometry that can make sense of the slope of a line then an explanation of the correct use of symbols that makes sense of variables and finally a systematic treatment of linear equations that explains why the graph of a linear equation in two variables is a straight line and why the usual solution method for simultaneous linear equations by substitutions is correct This book should be useful for current and future teachers of K 12 mathematics as well as for some high school students and for education professionals

Creativity and Technology in Mathematics Education Viktor Freiman, Janet Lynne Tassell, 2018-09-03 This volume provides new insights on creativity while focusing on innovative methodological approaches in research and practice of integrating technological tools and environments in mathematics teaching and learning This work is being built on the discussions at the mini symposium on Creativity and Technology at the International Conference on Mathematical Creativity and Giftedness ICMCG in Denver USA 2014 and other contributions to the topic The book emphasizes a diversity of views a variety of contexts angles and cultures of thought as well as mathematical and educational practices The authors of each chapter explore the potential of technology to foster creative and divergent mathematical thinking problem solving and problem posing creative use of dynamic multimodal and interactive software by teachers and learners as well as other digital media and tools while widening and enriching transdisciplinary and interdisciplinary connections in mathematics classroom Along with ground breaking innovative approaches the book aims to provide researchers and practitioners with new paths for diversification of opportunities for all students to become more creative and innovative mathematics learners A framework for dynamic learning conditions of leveraging mathematical creativity with technology is an outcome of the book as well

Effective Grading Practices for Secondary Teachers Dave Nagel, 2015-03-04 Enact innovative grading systems

that more accurately describe student progress This book challenges traditional grading practices and provides alternatives that can have direct impact on student success By making subtle shifts toward standards based grading systems schools can reduce unnecessary course failures provide students and their families a more accurate picture of current progress and increase opportunities for success The author offers a range of grading reform strategies that are built from practical frameworks that are effective and simple to adapt Among the many strengths of this book are Practical application of existing research and evidence base for effective secondary grading reforms A framework for schools and districts to apply and adapt failure prevention strategies such as early failure detection Amnesty Days and meaningful stipulated second chance opportunities for students to reach mastery Functional strategies and actions for shifting toward standards based referenced grading without entirely abandoning letter grades Countering resistance to change through a clearly articulated plan for conducting school wide and classroom level action research around the effectiveness of new or adjusted grading practices Informative and pragmatic this book is spot on with analysis of this elephant in the room issue Nagel uses both empathy and humor in getting to the heart of a process to generate real solutions while underscoring the ultimate need for teacher voice in any successful implementation He provides ready made strategies for real impactful change I m left hopeful that feedback will rule the day Bruce Potter Superintendent Berkshire UFSD Nagel offers an insightful and articulate voice to secondary improvement and alignment through grading practices His tried and true methods through working with real districts provides a starting place and examples for others to follow A must read for anyone serious about ensuring student engagement through meaningful feedback Debra K Howe Superintendent Tri Creek School Corporation

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