

GRADE 10
NOVEMBER EXAMINATION
MATHEMATICS PAPER 1
NOVEMBER 2022

TIME: 120 minutes
marks

100

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This question paper consists 7 pages.
Please check that your question paper is complete.
 2. Read the questions carefully.
 3. CALCULATORS ARE ALLOWED IN THIS ASSESSMENT.
 4. All the necessary working details must be clearly shown. Answers only will not necessarily be awarded full marks.
 5. It is in your own interest to write legibly and to present your work neatly.
-

QUESTION 1

(a) Solve the following:

(1) $(x - 2)(x + 1) = 0$ (2)

(2) $\frac{x - 1}{2} = 3 - \frac{x + 2}{5}$ (3)

(3) $(x + 2)(x - 3) = 6$ (4)

(4) $3,2^{x+2} - 0,75 = 0$ (3)

(b) Solve for x and y simultaneously:

$$\begin{aligned} 2x + 3y &= 10 \\ x - 4y &= -6 \end{aligned} \quad (5)$$

[17]

Maths Lite Grade10 Paper1 2014

RJ Alexander



Maths Lite Grade10 Paper1 2014:

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

The Education Invasion Joy Pullmann, 2017-03-14 Most Americans had no idea what Common Core was in 2013 according to polls But it had been creeping into schools nationwide over the previous three years and children were feeling its effects They cried over math homework so mystifying their parents could not help them even in elementary school They read motley assortments of informational text instead of classic literature They dreaded the high stakes tests in unfamiliar formats that were increasingly controlling their classrooms How did this latest and most sweeping reform of American education come in mostly under the radar Joy Pullmann started tugging on a thread of reports from worried parents and frustrated teachers and it led to a big tangle of history and politics intrigue and arrogance She unwound it to discover how a cabal of private foundation honchos and unelected public officials cooked up a set of rules for what American children must learn in core K 12 classes and how the Obama administration pressured states to adopt them Thus a federalized education scheme took root despite legal prohibitions against federal involvement in curriculum Common Core and its testing regime were touted as an absolute game changer in public education yet the evidence so far suggests that kids are actually learning less under it Why then was such a costly and disruptive agenda imposed on the nation's schools Who benefits And how can citizens regain local self governance in education so their children's minds will be fed a more nourishing intellectual diet and be protected from the experiments of emboldened bureaucrats The Education Invasion offers answers and remedies

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 is still a deep discrepancy between the level of scientific knowledge and its implementation into actual educational settings. Now it is 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.

Unlocking Multilingual Learners' Potential Diane Staehr Fenner, Sydney Snyder, Meghan Gregoire-Smith, 2024-01-10 Bring classroom content to life for multilingual learners. In this eagerly anticipated revision of their bestselling book, authors Diane Staehr Fenner, Sydney Snyder and Meghan Gregoire Smith share dynamic, research-backed strategies that every educator of multilingual learners (MLs) can add to their repertoire. Including more of what educators loved from the first edition: authentic classroom examples, a wide variety of research-based instructional strategies and practical tools to implement across grade levels and content areas, this is the ultimate practical guide to unlocking the potential of MLs in K-12 classrooms. With fresh graphics and eye-catching colors, this thoroughly revised edition also includes considerations for newcomers and students with interrupted or no formal education. SLIFE: An added chapter on building scaffolded instruction and peer learning opportunities into MLs' academic reading and writing activities. Additional opportunities for reflection and application. A new unit planning template aligned with research-based instructional practices including a completed example unit. Situated within five core beliefs that frame the must-haves for MLs' equitable and excellent education. *Unlocking Multilingual Learners' Potential* is a guide to research-based practices and a toolbox of strategies every educator can implement to make content accessible and increase language proficiency among MLs.

Teaching Mathematics Creatively Linda Pound, Trisha Lee, 2015-04-24 This new and updated edition of *Teaching Mathematics Creatively* offers a range of strategies to enable trainee and practising teachers to take an innovative, playful and creative approach to maths teaching. It promotes creativity as a key element of practice and offers ideas to involve your students and develop knowledge, understanding and enjoyment. Exploring fresh approaches, this text explains the role of play

in bringing mathematics alive for children and teachers alike It identifies the power of story telling in supporting mathematical thinking examines cross curricular teaching and allows you to plan for teaching creatively Imaginative ideas underpinned by the latest research and theory include 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 Giant maths how much food do you include on a giant shopping list Stimulating and accessible with contemporary and cutting edge practice at the forefront Teaching Mathematics Creatively includes a wealth of innovative ideas to enthuse teachers and enrich maths teaching This book is an essential purchase for any professional who wishes to embed creative approaches to teaching in their classroom *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 **International Index**, 1924 *El-Hi Textbooks and Serials in Print*, 2003 *Australian Education Index*, 1980 *Commonwealth Universities Yearbook* T. Craig, Hugh W. Springer, 1979 *Index to Media and Materials for the Mentally Retarded, Specific Learning Disabled, Emotionally Disturbed* National Information Center for Special Education Materials, 1978 The Advertiser's ABC of Official Scales & Charges and Advertisement Press Directory, 1895 *Complete Book of Colleges* Princeton Review (Firm), 2008 A comprehensive guide that profiles all of the four year colleges in the U S this work is packed with the information that prospective applicants need to know including the details on academics admissions requirements tuition and fees and more *Complete Book of Colleges, 2007 Edition* Princeton Review, 2006-08-08 Lists more than 1 600 colleges and universities and provides information about admissions and academic programs *Children's Books in Print* R R Bowker Publishing, Bowker, 1999-12 **The Complete Book of Colleges**, 2007 *El-Hi Textbooks in Print*, 1982 **Children's Books in Print, 2007**, 2006 Annual Performance Plan Mpumalanga (South Africa). Department of Education, 2015 S NEWS ULTIMATE COLLEGE DIRECTORY 2004 MCGRATH ANNE (EDITOR), 2003

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