



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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QUESTION 1

1.1 Solve for x .

1.1.1 $x^2 + 3x + 2 = 0$

(2)

1.1.2 $2x^2 - 5x + 2 = 0$ (Solve by completing the square or using the quadratic formula)

(2)

1.1.3 $x^2 = 49$

(2)

1.2 Given $y = \frac{2x^2 + 3x}{x^2 + 1}$

1.2.1 Solve for x .

(2)

1.2.2 Hence solve for x : $2x^2 + 3x = 4$

(2)

1.3 Without using a calculator, calculate the value of $\frac{2^{\frac{1}{2}} \cdot 3^{\frac{1}{2}}}{\sqrt{12}}$

(2)

1.4 Solve for x and y simultaneously:

$2x + y = 1$ and $\frac{1}{x} + \frac{1}{y} = 2$

(4)

(20)

QUESTION 2

2.1 The first term of an arithmetic sequence is 2 and the 10th term is 35.

Determine:

2.1.1 d , the common difference of the sequence

(2)

2.1.2 the number of terms in the sequence if the last term of the sequence is 47

(2)

2.1.3 the sum of the first 10 terms in the sequence

(2)

2.2 $10, 15, 20, 25, \dots$ is an arithmetic sequence.

2.2.1 Write down the 10th term of the sequence.

(1)

2.2.2 Determine the n^{th} term of the sequence.

(2)

2.2.3 Determine the maximum value of the following sequence:
 $-10 + \frac{3}{2}, 1 + \frac{3}{2}, 4 + \frac{3}{2}, \dots$

(2)

(20)

Mathematics Paper 1 Grade 12 March 2014

Kadriye Ercikan, James W. Pellegrino



Mathematics Paper 1 Grade 12 March 2014:

Exploring the Mathematical Education of Teachers Using TEDS-M Data Maria Teresa Tatto, Michael C. Rodriguez, Wendy M. Smith, Mark D. Reckase, Kiril Bankov, 2018-08-16 This book uses the publicly available TEDS M data to answer such questions as How does teacher education contribute to the learning outcomes of future teachers Are there programs that are more successful than others in helping teachers learn to teach mathematics How does the local and national policy environment contribute to teacher education outcomes It invites readers to explore these questions across a large number of international settings The importance of preparing future mathematics teachers has become a priority across many nations Across the globe nations have allocated resources and expertise to this endeavour Yet in spite of the importance accorded to teacher education not much is known about different approaches to preparing knowledgeable teachers and whether these approaches do in fact achieve their purpose The Mathematics Teacher Education and Development Study TEDS M is the first and to date the only cross national study using scientific and representative samples to provide empirical data on the knowledge that future mathematics teachers of primary and secondary school acquire in their teacher education programs The study addresses the central importance of teacher knowledge in learning to teach mathematics by examining variation in the nature and influence of teacher education programs within and across countries The study collected data on teacher education programs structure curriculum and opportunities to learn on teacher educators characteristics and beliefs and on future mathematics teachers individual characteristics beliefs and mathematics and pedagogical knowledge across 17 countries providing a unique opportunity to explore enduring questions in the field

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 The Trials of Evidence-based Education Stephen Gorard,Beng Huat See,Nadia Siddiqui,2017-06-26 The Trials of Evidence based Education explores the promise limitations and opportunities of evidence based policy and practice as the attention of funders moves from a sole focus on attainment outcomes to political concern about character building and wider educational impacts The results and implications of over 20 studies conducted by the authors are combined with large number of studies from systematic reviews and their implications are spelled out for the research community policy makers schools wanting to run their own evaluations and practitioners using evidence in this well structured and thoughtful text **The End of Public Schools** David W. Hursh,2015-10-16 The End of Public Schools analyzes the effect of foundations corporations and non governmental organizations on the rise of neoliberal principles in public education By first contextualizing the privatization of education within the context of a larger educational crisis and with particular emphasis on the Gates Foundation and influential state and national politicians it describes how specific policies that limit public control are advanced across all levels Informed by a thorough understanding of issues such as standardized testing teacher tenure and charter schools David Hursh provides a political and pedagogical critique of the current school reform movement as well details about the increasing resistance efforts on the part of parents teachers and the general public **Math Instruction for Students with Learning Problems** Susan Perry Gurganus,2017-02-24 Math Instruction for Students with Learning Problems Second Edition provides a research based approach to mathematics instruction designed to build confidence and competence in pre and in service PreK 12 teachers This core textbook addresses teacher and student attitudes toward mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors The material is rich with opportunities for class activities and field extensions and the second edition has been fully updated to reference both NCTM and CCSSM standards throughout the text and includes an entirely new chapter on measurement and data analysis *The Politics of Education in Developing Countries* Sam Hickey,Naomi Hossain,2019-02-21 Why have many developing countries that have succeeded in expanding access to education made such limited progress on improving learning outcomes There is a growing recognition that the learning crisis constitutes a significant dimension of global inequality and also that educational outcomes in developing countries are shaped by political as well as socio economic and other factors The Politics of Education in Developing Countries focuses on how politics shapes the capacity and commitment of elites to tackle the learning crisis in six developing countries Bangladesh Cambodia Ghana Rwanda South Africa and Uganda The problem of education quality is serious across the Global South The Politics of Education in Developing Countries From Schooling to Learning deploys a new conceptual framework the domains of power approach to show how the type of political settlement shapes the level of elite commitment and state capacity to improving learning outcomes The domain of education is prone to being highly politicized as it offers an important source of both rents and legitimacy to political elites and can be central to

paradigmatic elite ideas around nation building and modernity Of particular importance is the relative strength of coalitions pushing for access as against those focused on issues of higher quality education This book concludes with a discussion of entry points and strategies for thinking and working politically in relation to education quality reforms and critical commentaries

Teaching Learners with Visual Impairment Maximus M. Sefotho, Ronél Ferreira, 2020-12-31 This book *Teaching Learners with Visual Impairment* focuses on holistic support to learners with visual impairment in and beyond the classroom and school context Special attention is given to classroom practice learning support curriculum differentiation and assessment practices to mention but a few areas of focus covered in the book In this manner this book makes a significant contribution to the existing body of knowledge on the implementation of inclusive education policy with learners affected by visual impairment

Encyclopedia of Mathematical Geosciences B. S. Daya Sagar, Qiuming Cheng, Jennifer McKinley, Frits Agterberg, 2023-07-13 The *Encyclopedia of Mathematical Geosciences* is a complete and authoritative reference work It provides concise explanation on each term that is related to Mathematical Geosciences Over 300 international scientists each expert in their specialties have written around 350 separate articles on different topics of mathematical geosciences including contributions on Artificial Intelligence Big Data Compositional Data Analysis Geomathematics Geostatistics Geographical Information Science Mathematical Morphology Mathematical Petrology Multifractals Multiple Point Statistics Spatial Data Science Spatial Statistics and Stochastic Process Modeling Each topic incorporates cross referencing to related articles and also has its own reference list to lead the reader to essential articles within the published literature The entries are arranged alphabetically for easy access and the subject and author indices are comprehensive and extensive

Validation of Score Meaning for the Next Generation of Assessments Kadriye Ercikan, James W. Pellegrino, 2017-03-27 Despite developments in research and practice on using examinee response process data in assessment design the use of such data in test validation is rare *Validation of Score Meaning in the Next Generation of Assessments Using Response Processes* highlights the importance of validity evidence based on response processes and provides guidance to measurement researchers and practitioners in creating and using such evidence as a regular part of the assessment validation process Response processes refer to approaches and behaviors of examinees when they interpret assessment situations and formulate and generate solutions as revealed through verbalizations eye movements response times or computer clicks Such response process data can provide information about the extent to which items and tasks engage examinees in the intended ways With contributions from the top researchers in the field of assessment this volume includes chapters that focus on methodological issues and on applications across multiple contexts of assessment interpretation and use In Part I of this book contributors discuss the framing of validity as an evidence based argument for the interpretation of the meaning of test scores the specifics of different methods of response process data collection and analysis and the use of response process data relative to issues of validation as highlighted in the joint standards on testing

In Part II chapter authors offer examples that illustrate the use of response process data in assessment validation These cases are provided specifically to address issues related to the analysis and interpretation of performance on assessments of complex cognition assessments designed to inform classroom learning and instruction and assessments intended for students with varying cultural and linguistic backgrounds The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

Spectrum Language Arts and Math, Grade 1 Spectrum,2015-03-02 Spectrum R Language Arts and Math Common Core Edition for Grade 1 helps parents understand Common Core standards and helps students master essential Common Core skills Engaging practice pages and sturdy flash cards help students with long vowels sentences vocabulary place value telling time and more Spectrum R Language Arts and Math Common Core Edition helps take the mystery out of current academic standards for busy parents This unique resource for kindergarten to grade 5 provides easy to understand overviews of Common Core learning standards for each grade level Each title includes more than 100 skill building practice pages and more than 100 sturdy cut apart flash cards The handy cards make it easy to review important skills quickly at home or on the go You will find all of the focused standards based practice your child needs to succeed at school this year

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CUET (UG) 20 Combined Mock Test Papers Science (PCM) Stream (English, Physics, Chemistry, Mathematics, General Test) For 2025 Exam Oswaal Editorial Board,2024-09-05 The Central Universities Entrance Test CUET UG has emerged as a crucial examination for students aspiring to secure admission into prestigious universities across India With the competition intensifying each year thorough preparation and strategic practice have become essential for success In 2024 The Common University Entrance Test CUET

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Union Public Service Commission UPSC every year conducts a CDS exam twice a year for candidates who wish to make their career in the defence forces Army Navy and Air Force The Combined Defence Services Examination is conducted for admission to the Indian Military Academy IMA Indian Naval Academy INA Air Force Academy AFA and Officers Training Academy OTA The CDS selection process comprises two stages written exams and SSB interviews The final selection of candidates is done based on the performance in both stages After completing training at IMA INA AFA and OTA candidates are selected for the post of Lieutenant In 2024 Approx 4.5 Lacs students applied for the CDS examination the opportunity you get from the Indian Armed Forces is just limitless which helps in enhancing your personality traits For a youngster who is aspiring to get a job full of challenges and excitement then there is no better job than the defence This book aims to make aspirants exam ready boost their confidence and help them achieve better results in CDS By making learning Simple we are also making better careers and a better life for every student Every day we are moving ahead pursuing our noble cause of spreading knowledge This set of solved question papers is designed to enrich students with ample and

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POGIL Shawn R. Simonson, 2023-07-03 Process Oriented Guided Inquiry Learning POGIL is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines Beyond facilitating students mastery of a discipline it promotes vital educational outcomes such as communication skills and critical thinking Its active international community of practitioners provides accessible educational development and support for anyone developing related courses Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry The POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success develop curricular materials to assist this process conduct research expanding what is known about learning and teaching and provide professional development and collegiality from elementary teachers to college professors As a pedagogy it has been shown to be effective in a variety of content areas and at different educational levels This is an introduction to the process and the community Every POGIL classroom is different and is a reflection of the uniqueness of the particular context the institution department physical space student body and instructor but follows a common structure in which students work cooperatively in self managed small groups of three or four The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves based entirely on data provided in class not on prior reading of the textbook or other introduction to the topic The learning environment is structured to support the development of process skills such as teamwork effective communication information processing problem solving and critical thinking The instructor's role is to facilitate the development of student concepts and process skills not to simply deliver content to the students The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy The second part of the book focusses on implementing POGIL covering the formation and effective management of student teams offering guidance on the selection and writing of POGIL activities as well as on facilitation teaching large classes and assessment The book concludes with examples of implementation in STEM and non STEM disciplines as well as guidance on how to get started Appendices provide additional resources and information about The POGIL Project

Evaluation of the Achievement Levels for Mathematics and Reading on the National Assessment of Educational Progress National Academies of Sciences,

Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Testing and Assessment, Committee on National Statistics, Committee on the Evaluation of NAEP Achievement Levels for Mathematics and Reading, 2017-04-12 Since 1969 the National Assessment of Educational Progress NAEP has been providing policymakers educators and the public with reports on academic performance and progress of the nation's students The assessment is given periodically in a variety of subjects mathematics reading writing science the arts civics economics geography U S history and technology and engineering literacy NAEP is given to representative samples of students across the U S to assess the educational progress of the nation as a whole Since 1992 NAEP results have been reported in relation to three achievement levels basic proficient and advanced However the use of achievement levels has provoked controversy and disagreement and evaluators have identified numerous concerns This publication evaluates the NAEP student achievement levels in reading and mathematics in grades 4 8 and 12 to determine whether the achievement levels are reasonable reliable valid and informative to the public and recommends ways that the setting and use of achievement levels can be improved

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

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