

# basic education

Department: Basic Education REPUBLIC OF SOUTH AFRICA

#### SENIOR CERTIFICATE EXAMINATIONS/ NATIONAL SENIOR CERTIFICATE EXAMINATIONS

#### MATHEMATICAL LITERACY P1

2021

MARKS: 150

TIME: 3 hours

This question paper consists of 15 pages, 1 answer sheet and an addendum with 3 annexures.

# **Mathematical Literacy Common Test June 2014**

Claire M. Fletcher-Flinn

#### **Mathematical Literacy Common Test June 2014:**

The Next Generation of Testing Hong Jiao, Robert W. Lissitz, 2015-11-01 The Race To The Top RTTP federal education policy fostered a new generation of state tests This policy advocated adopting common core standards which set a higher level of learning targets for students in the US K 12 education These standards are intended to assess higher order thinking skills and prepare students ready for college and career In the meantime they are aligned with those for international assessments which keep US students abreast of their international peers Furthermore the new generation of state tests requires the use of technology enhanced items to align student assessments with student learning environment Computer technology is indispensable to accomplish this goal Computer based tests related to common core standards are different from previous state computer based tests in two important aspects one is that the current version requires accurate assessment of students along all ability levels and the other is that it promotes the use of an efficient test delivery system essentially the use of computerized adaptive assessment in K 12 state testing programs In addition to providing summative information about student learning the new common core tests add formative assessment component in the whole assessment system to provide timely feedback to students and teachers during the process of student learning and teacher instruction As with its predecessor the new assessment policy also holds teachers and schools accountable for student learning With the requirements by the new federal education policy states formed two consortia Partnership for Assessment of Readiness for College and Careers PARCC and Smarter Balanced Assessment Consortium SBAC to develop assessments in alignment with the new common core standards This book is based on the presentations made at the Thirteenth Annual Maryland Assessment Research Center's Conference on The Next Generation of Testing Common Core Standards Smarter Balanced PARCC and the Nationwide Testing Movement Experts from the consortia and nationwide overviewed the intention history and the current status of this nationwide testing movement Item development test design and transition from old state tests to the new consortia tests are discussed Test scoring and reporting are specially highlighted in the book The challenges related to standard setting for the new test especially in the CAT environment and linking performance standards from state tests with consortium tests were explored The issues of utilizing the consortium test results to evaluate students college and career readiness is another topic addressed in the book The last chapters address the critical issue of validity in the new generation of state testing programs Overall this book presents the latest status of the development of the two consortium assessment systems It addresses the most challenging issues related to the next generation of state testing programs including development of innovative items assessing higher order thinking skills scoring of such items standard setting and linkage with the old state specific standards and validity issues This edited book provides a very good source of information related to the consortium tests based on the common core standards Mathematical Literacy on Statistical Measures Christian Büscher, 2018-07-14 In most countries only very limited time resources are available for statistics

education within mathematics education Thus statistics education research needs to develop teaching learning arrangements that are compact and applicable to classrooms Christian B scher designs and investigates a compact teaching learning arrangement which aims at mathematical and reflective knowledge about statistics Central results include the specification of the learning content of statistical measures an empirical reconstruction of students learning processes towards statistical measures and the identification of students situated reflections about mathematics within their learning processes

Financial Education for Youth The Role of Schools OECD, 2014-04-07 This publication addresses the challenges linked to the introduction of financial education in schools provides practical guidance and case studies to assist policy makers as well as a comparative analysis of existing learning frameworks Teaching and Learning Mathematics Online James P. Howard, II, John F. Beyers, 2020-05-10 Online education has become a major component of higher education worldwide In mathematics and statistics courses there exists a number of challenges that are unique to the teaching and learning of mathematics and statistics in an online environment These challenges are deeply connected to already existing difficulties related to math anxiety conceptual understanding of mathematical ideas communicating mathematically and the appropriate use of technology Teaching and Learning Mathematics Online bridges these issues by presenting meaningful and practical solutions for teaching mathematics and statistics online It focuses on the problems observed by mathematics instructors currently working in the field who strive to hone their craft and share best practices with our professional community The book provides a set of standard practices improving the quality of online teaching and the learning of mathematics Instructors will benefit from learning new techniques and approaches to delivering content Features Based on the experiences of working educators in the field Assimilates the latest technology developments for interactive distance education Focuses on mathematical education for developing early mathematics courses Understanding and Applying Assessment in Education Damian Murchan, Gerry Shiel, 2024-04-09 All teachers are responsible for assessing the children they teach and the outcomes of any assessment are important for individual learners schools and wider education systems Designed as a pragmatic guide for new teachers and those training to teach this book is your one stop shop for understanding assessment in schools It covers formative and summative approaches used across primary and secondary education supporting a balanced overview with policy examples drawn from the UK Ireland and wider international contexts This updated second edition reflects recent trends in assessment and includes more balanced coverage across primary and secondary age phases with a broader range of examples across curriculum subject areas a new chapter on the potential of digital assessment for both formative and summative purposes the impact of the COVID 19 pandemic on assessment in general and examinations in particular Damian Murchan is Associate Professor in the School of Education at Trinity College Dublin Gerry Shiel is a Research Fellow at the Educational Research Centre Dublin Ireland Federal Register ,2013-12

If Einstein Ran the Schools Thomas Armstrong Ph.D., 2019-10-11 Many world class thinkers and creators have been

concerned about the state of education in the United States Discover their thoughts on how children really learn and what teachers must do to optimally tap children's latent abilities During the last three decades education reformers have pushed standardized testing and policies like No Child Left Behind and Common Core to improve test scores and proficiency in basic skills However during this period that author Thomas Armstrong calls the miseducation of America a number of troubling trends have surfaced including a decrease in creative thinking scores among children in kindergarten through third grade Rather than focus on what s wrong with the education system that has produced these outcomes Armstrong lays out what creative thinkers know about how children should be educated In an extended thought experiment he asks what would happen if we turned the reins of educational policy over not to the politicians and educational bureaucrats but to eminent thinkers and creators like Albert Einstein Pablo Picasso Martin Luther King Jr Rachel Carson Doris Lessing Jane Goodall and other seminal culture builders What might they say about the best way to educate a child If Einstein Ran the Schools suggests that the answers to this intriguing question should guide future efforts to reform our nation s schools **Students** of Color and the Achievement Gap Richard R. Valencia, 2015-03-05 Students of Color and the Achievement Gap is a comprehensive landmark analysis of an incontrovertible racialized reality in U S K 12 public education the relentless achievement gap between low socioeconomic students of color and their economically advantaged White counterparts Award winning author and scholar Richard Valencia provides an authoritative and systemic treatment of the achievement gap focusing on Black and Latino Latina students He examines the societal and educational factors that help to create and maintain the achievement gap by drawing from critical race theory an asset based perspective and a systemic inequality approach By showing how racialized opportunity structures in society and schools ultimately result in racialized patterns of academic achievement in schools Valencia shows how the various indicators of the achievement gap are actually symptoms of the societal and school quality gaps Following each of these concerns Valencia provides a number of reform suggestions that can lead to systemic transformations of K 12 education Students of Color and the Achievement Gap makes a persuasive and well documented case that school success for students of color and the empowerment of their parents can only be fully understood and realized when contextualized within broader political economic and cultural frameworks **Effective** Delivery of Integrated Interventions in Early Childhood: Innovations in Evidence Use, Monitoring, Evaluation and Learning Jane Fisher, Abhay Gaidhane, Mahalagua Nazli Khatib, Zahiruddin Quazi Syed, 2021-12-01 The Pedagogy of **Standardized Testing** Arlo Kempf, 2016-04-29 Based on a large scale international study of teachers in Los Angeles Chicago Ontario and New York this book illustrates the ways increased use of high stakes standardized testing is fundamentally changing education in the US and Canada with a negative overall impact on the way teachers teach and students learn Standardized testing makes understanding students strengths and weaknesses more difficult and class time spent on testing consumes scarce time and attention needed to support the success of all students further disadvantaging ELLs students with

exceptionalities low income and racially minoritized students **Literacy Essentials** Regie Routman, 2023-10-10 In her practical and inspirational book Literacy Essentials Engagement Excellence and Equity for All Learners author Regie Routman guides K 12 teachers to create a trusting intellectual and equitable classroom culture that allows all learners to thrive as self directed readers writers thinkers and responsible citizens Over the course of three sections Routman provides numerous Take Action ideas for implementing authentic and responsive teaching assessing and learning This book poses a key question How do we rise to the challenge of providing an engaging excellent equitable education for all learners including those from high poverty and underserved schools Teaching for Engagement Many high performing schools are characterized by a a thriving school culture built on a network of authentic communication Teachers can strengthen classroom engagement by building a trusting and welcoming environment where all students can have a safe and collaborative space to grow and develop Pursuing Excellence Routman identifies 10 key factors that describe an excellent teacher ranging from intellectual curiosity to creativity and explains how carrying yourself as a role model contributes to an inclusive caring empathic and fair classroom She also stresses the importance for school leaders to make job embedded professional development a top priority Dismantling Unequal Education The huge gap in the quality of education in high vs low income communities is the civil rights issue of the 21st century according to Routman She spells out specific actions educators can take to create more equitable schools and classrooms such as diversifying texts used in curriculums and ensuring all students have access to opportunities to discuss reflect and engage with important ideas From the author I wrote Literacy Essentials because I saw a need to simplify teaching raise expectations and make expert teaching possible for all of us I saw a need to emphasize how a school culture of kindness trust respect and curiosity is essential to any lasting achievement I saw a need to demonstrate and discuss how and why the beliefs actions knowledge we hold determine the potential for many of our students Equal opportunity to learn depends on a culture of engagement and equity which under lies a relentless pursuit of excellence Frontiers in the Acquisition of Literacy Claire M. Fletcher-Flinn, 2015-09-28 Learning to read and to spell are two of the most important cultural skills that must be acquired by children and for that matter anyone learning a second language We are not born with an innate ability to read A reading system of mental representations that enables us to read must be formed in the brain Learning to read in alphabetic orthographies is the acquisition of such a system which links mental representations of visual symbols letters in print words with pre existing phonological sound and semantic comprehension cognitive systems for language Although spelling draws on the same representational knowledge base and is usually correlated with reading the acquisition processes involved are not quite the same Spelling requires the sequential production of letters in words and at beginning levels there may not be a full degree of integration of phonology with its representation by the orthography Reading on the other hand requires only the recognition of a word for pronunciation Hence spelling is more difficult than reading and learning to spell may necessitate more

complete representations or more conscious access to them The learning processes that children use to acquire such cognitive systems in the brain and whether these same processes are universal across different languages and orthographies are central theoretical questions. Most children learn to read and spell their language at the same time thus the co-ordination of these two facets of literacy acquisition needs explication as well as the effect of different teaching approaches on acquisition Lack of progress in either reading and or spelling is also a major issue of concern for parents and teachers necessitating a cross disciplinary approach to the problem encompassing major efforts from researchers in neuroscience cognitive science experimental psychology and education The purpose of this Research Topic is to summarize and review what has been accomplished so far and to further explore these general issues Contributions from different perspectives are welcomed and could include theoretical computational and empirical works that focus on the acquisition of literacy including cross orthographic research Encyclopedia of Library and Information Sciences John D. McDonald, Michael Levine-Clark, 2017-03-15 The Encyclopedia of Library and Information Sciences comprising of seven volumes now in its fourth edition compiles the contributions of major researchers and practitioners and explores the cultural institutions of more than 30 countries This major reference presents over 550 entries extensively reviewed for accuracy in seven print volumes or online The new fourth edition which includes 55 new entires and 60 revised entries continues to reflect the growing convergence among the disciplines that influence information and the cultural record with coverage of the latest topics as well as classic articles of historical and theoretical importance **Society in Focus** William E. Thompson, Joseph V. Hickey, Mica L. Thompson, 2018-11-13 Society in Focus An Introduction to Sociology Ninth Edition emphasizes how society and socialforces affect everything from globalization and international policies to day to dayactivities in our personal lives In this edition the authors go beyond the merequestioning of issues to take a closer lookat the social world in which we live They provide an integrated approach that uses sociological thinking to help students analyze and understand key concepts Tofocus increased attention on sociologicalthinking and research methods they have chosen four key themes media andtechnology globalization cultural diversity and trends for the future Because sociologyis about all of us and our daily lives it is an eminently practical and useful discipline for understanding our social world. This Ninth Edition Includes specific student outcomes for each chapter as well as assessment items linked to those outcomes new chapter opening vignettes that give real life examples illustrating important terms concepts and theories included in that chapter updated data statistics maps charts boxes and tables citing the latest research available examples of the powerful impact of media and technology on society especially the role social media play in helping to shape and define our daily social lives new photos and cartoons accompanied by critical thinking questions that reinforce and illustrate important sociological terms concepts and theories

Associations between Reading and Mathematics: Genetic, Brain Imaging, Cognitive and Educational Perspectives Sarit Ashkenazi,Orly Rubinsten,Bert De Smedt,2017-10-05 Converging evidence demonstrates a strong link

between reading and mathematics multiple cognitive processes are shared between reading and mathematics including the representation and retrieval of symbolic information attention working memory and cognitive control Additionally multiple brain networks are involved in both math and reading and last common genetic factors might influence both reading and math Hence it comes as no surprise that there are meaningful associations between aspects of math and reading abilities Moreover comorbidity rates between math learning disabilities MD and reading disabilities RD are high up to 66% and prevalence rate of the comorbid condition is reported to be more common than the prevalence rate of isolated math learning disabilities Accordingly the goal of the research topic is to explore the underline mechanisms of this overlap between reading and math The research topic aims to include the following topics Genetics it has been found that both RD and MD are based on genetic factors and run in families Moreover math problem solving shares significant genetic overlap with general cognitive ability and reading decoding whereas math fluency shares significant genetic overlap with reading fluency and general cognitive ability Hence this topic will explore the shared and unique genetic risk factors to RD and MD In addition to shared and unique genetic influence on reading and math Neural perspective converging evidence from both structural and multiple functional imaging studies involving a wide range of numerical tasks points to the intraparietal sulcus IPS as a core region that involve in quantity manipulation However several additional brain areas such as frontoparietal and temporoparietal areas were found to be involved in numerical tasks Individuals with MD show deficits in a distributed set of brain regions that include the IPS fusiform gyrus in posterior brain regions and pre frontal cortex regions Similarly converging evidence indicate that the left hemisphere regions centered in the fusiform gyrus temporoparietal cortex and pre frontal cortex regions are strongly involve in typical reading and present lower activity connectivity or abnormal structure in RD Thus there is a meaningful neural overlap between reading and math Hence the authors can submit empirical studies on the role of several of brain regions that are involved in math and reading commonality and diversity both in the typical and a typical development Cognitive factors that play role in mathematics and reading and comorbidity between RD and MD There is a long lasting debate whether MD and RD originate from unique cognitive mechanisms or not Multiple cognitive processes are shared between reading and mathematics Therefore impairments in any one of domain general skills could conceivably play an important role in both pure and comorbid conditions Moreover it has been suggested that phonological processing has a significant role in some aspects of numerical processing such as retrieval of arithmetical facts Education it will be interesting to look at the effect of interventions that aim to improve reading such as phonological awareness and there transfer effect on improving mathematical processing Alternatively it will be good to test whether math interventions will improve reading A Local Assessment Toolkit to Promote Deeper Learning Karin Hess, 2018-02-28 For years educators have turned to the Hess Cognitive Rigor Matrices CRM when it comes to assessment Now for the first time the modules are packaged into one resource to help teachers evaluate the quality and premise of their current assessment

system Approximate Number System and Mathematics Jingguang Li, Xinlin Zhou, Marcus Lindskog, 2019-11-25 Humans process quantity information without the aid of language or symbols to guide a variety of everyday life decisions The cognitive system that supports this intuitive skill is often referred to as the approximate number system ANS It has been argued that the ANS serves as the foundation of the formal symbolic number system mathematics Abundant empirical evidence is supportive of this view acuity of the ANS is positively correlated with symbolic math performance training of the ANS may cause improvements in symbolic math performance and the ANS and symbolic number processing may share a common neural underpinning However recently several theories and empirical data cast doubt on the role of the ANS in symbolic math processing This e book aims to advance our understanding of the underlying mechanisms of the overlap between the ANS and mathematics A Fight for the Soul of Public Education Steven Ashby, Robert Bruno, 2016-11-04 In reaction to the changes imposed on public schools across the country in the name of education reform the Chicago Teachers Union redefined its traditional role and waged a multidimensional fight that produced a community wide school strike and transformed the scope of collective bargaining into arenas that few labor relations experts thought possible Using interviews first person accounts participant observation union documents and media reports Steven K Ashby and Robert Bruno tell the story of the 2012 strike that shut down the Chicago school system for seven days A Fight for the Soul of Public Education takes into account two overlapping parallel and equally important stories One is a grassroots story of worker activism told from the perspective of rank and file union members and their community supporters Ashby and Bruno provide a detailed account of how the strike became an international cause when other teachers unions had largely surrendered to corporate driven education reform The second story describes the role of state and national politics in imposing educational governance changes on public schools and draconian limitations on union bargaining rights It includes a detailed account of the actual bargaining process revealing the mundane and the transcendental strategies of both school board and union representatives Broadening Participation in STEM Zayika Wilson-Kennedy, Goldie S. Byrd, Eugene Kennedy, Henry T. Frierson, 2019-02-28 This book reports on high impact educational practices and programs that have been demonstrated to be effective at broadening the participation of underrepresented groups in the STEM disciplines Make It Happen Kim Bailey, Chris Jakicic, 2018-12-07 Ensure every educator is engaged in the right work with a collective focus on improved student learning Aligned to the Professional Learning Communities PLC at Work model this resource includes instructional coaching tools processes protocols templates tips and strategies designed to support the multidimensional work of instructional coaches and PLC training Each chapter includes action steps and reflective coaching activities as well as suggestions for navigating some of the most common issues instructional coaches face Use this book to understand the unique requirements of instructional coaches in building a school that answers the four critical questions of a PLC at Work Learn how to provide PLC training and professional development for collaborative teacher teams Study three major variables that will affect instructional coaching capacity culture and context and four major actions that will act as guiding principles Explore issues that can arise in PLC schools as well as teacher coaching strategies to help resolve these issues Deepen your understanding of instructional coaching in a PLC with helpful online reproducibles and teacher coaching tools Acquire capacity building strategies aligned to the four PLC questions Contents Introduction Chapter 1 How to Get Started as an Instructional Coach Chapter 2 What Do We Want Students to Know and Be Able to Do Chapter 3 How Will We Know if They Have Learned It Chapter 4 How Will We Respond When Some Students Do Not Learn Chapter 5 How Will We Extend the Learning of Students Who Are Already Proficient Epilogue Maintaining the Momentum and Sustaining the Process References and Resources Index

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