

**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 4
D 1

- 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: _____ (3)

A 48; 56
B 48; 57
C 47; 56
D 47; 57

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

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

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

A 18
B 74
C 18 and 74
D 18

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

A 10
B 12
C 14
D 16

6 x 1 = 6

QUESTION 2: WHOLE NUMBERS & INTEGERS

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

- 2.2 If 10 contractors can build a house in 10 days. How many contractors, 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. _____ (3)

- 2.4 Write the number 48 as a product of its prime factors. Write the prime factors in exponential form. _____ (4)

- 2.5 Calculate the following:
2.5.1 $2 \frac{1}{2} \times 3 \frac{1}{2}$ _____ (3)
2.5.2 $2 \frac{1}{2} \div 3 \frac{1}{2}$ _____ (3)
[16]

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 $\sqrt{5^2} \times 5^2$ _____ (3)
[10]

Mathematics Paper 2014 Grade Memorandum

Nic Spaull, Jonathan D. Jansen



Mathematics Paper 2014 Grade Memorandum:

Child Development at the Intersection of Race and SES, 2019-07-10 Child Development at the intersection of Race and SES Volume 57 in the Advances in Child Development and Behavior series presents theoretical and empirical scholarship illuminating how race ethnicity and socioeconomic status intersect to shape children's development and developmental contexts Important chapters in this new release include the Implications of Intersecting Socioeconomic and Racial Identities for Academic Achievement and Well being The home environment of low income Latino children Challenges and opportunities Profiles of race ethnicity and socioeconomic status Implications for ethnic racial identity discrimination and sleep Youths sociopolitical perceptions and mental health Intersections between race class and gender and much more Rather than focusing on the additive effects of race ethnicity and SES which is typical and a limitation in the developmental literature the scholarship in this book considers how the factors and processes shaping the development of children of color can differ markedly across the socioeconomic continuum This collection illustrates how applying an intersectional lens to developmental science can yield unique insights into the challenges confronting and assets buoying both minority and majority children's healthy development Includes contributions from renowned developmental scholars working at the forefront of their fields Presents a multidisciplinary focus that will be useful to developmental psychologists sociologists family scientists and those whose interests and work fall under the purview of those disciplines Examines multiple dimensions and factors shaping childhood development

The SAGE Handbook of Curriculum, Pedagogy and Assessment Dominic Wyse, Louise Hayward, Jessica Pandya, 2015-12-03 The research and debates surrounding curriculum pedagogy and assessment are ever growing and are of constant importance around the globe With two volumes containing chapters from highly respected researchers whose work has been critical to understanding and building expertise in the field The SAGE Handbook of Curriculum Pedagogy and Assessment focuses on examining how curriculum is treated and developed and its impact on pedagogy and assessment worldwide The Handbook is organised into five thematic sections considering The epistemology and methodology of curriculum Curriculum and pedagogy Curriculum subjects Areas of the curriculum Assessment and the curriculum The curriculum and educational policy The SAGE Handbook of Curriculum Pedagogy and Assessment's breadth and rigour will make it essential reading for researchers and postgraduate students around the world

Knowledge, Curriculum and Equity Brian Barrett, Ursula Hoadley, John Morgan, 2017-07-20 In 2008 the first in a series of symposia established a social realist case for knowledge as an alternative to the relativist tendencies of the constructivist post structuralist and postmodernist approaches dominant in the sociology of education The second symposium focused on curriculum and the development of a theoretical language grounded in social realism to talk about issues of knowledge and curriculum Finally the third symposium brought together researchers in a broad range of contexts to build on these ideas and arguments and with a concerted empirical focus bring these social realist ideas and arguments into conversation with

data Knowledge Curriculum and Equity Social Realist Perspectives contains the work of the third symposium where the strengths and gaps in the social realist approach are identified and where there is critical recognition of the need to incrementally extend the theories through empirical study Fundamentally the problem that social realism is seeking to address is about understanding the social conditions of knowledge production and exchange as well as its structuring in the curriculum and in pedagogy The central concern is with the on going social reproduction of inequality through schooling and exploring whether and how foregrounding specialised knowledge and its access holds the possibility for interrupting it This book consists of 13 chapters by different authors working in Oceania Asia Europe Africa and North America From very different vantage points the authors focus their theoretical and empirical sights on the assumptions about knowledge that underpin educational processes and the pursuit of more equitable schooling for all *Handbook of Test Development* Suzanne Lane, Mark R. Raymond, Thomas M. Haladyna, 2015-10-08 The second edition of the Handbook of Test Development provides graduate students and professionals with an up to date research oriented guide to the latest developments in the field Including thirty two chapters by well known scholars and practitioners it is divided into five sections covering the foundations of test development content definition item development test design and form assembly and the processes of test administration documentation and evaluation Keenly aware of developments in the field since the publication of the first edition including changes in technology the evolution of psychometric theory and the increased demands for effective tests via educational policy the editors of this edition include new chapters on assessing noncognitive skills measuring growth and learning progressions automated item generation and test assembly and computerized scoring of constructed responses The volume also includes expanded coverage of performance testing validity fairness and numerous other topics Edited by Suzanne Lane Mark R Raymond and Thomas M Haladyna The Handbook of Test Development 2nd edition is based on the revised Standards for Educational and Psychological Testing and is appropriate for graduate courses and seminars that deal with test development and usage professional testing services and credentialing agencies state and local boards of education and academic libraries serving these groups *PISA 2015 Assessment and Analytical Framework Science, Reading, Mathematic, Financial Literacy and Collaborative Problem Solving* OECD, 2017-08-31 What is important for citizens to know and be able to do The OECD Programme for International Student Assessment PISA seeks to answer that question through the most comprehensive and rigorous international assessment of student knowledge and skills *PISA 2015 Assessment and Analytical Framework Science, Reading, Mathematic and Financial Literacy* OECD, 2016-04-19 What is important for citizens to know and be able to do The OECD Programme for International Student Assessment PISA seeks to answer that question through the most comprehensive and rigorous international assessment of student knowledge and skills

Assessing Contexts of Learning Susanne Kuger, Eckhard Klieme, Nina Jude, David Kaplan, 2016-12-05 This volume brings together educational effectiveness research and international large scale assessments demonstrating how the two fields can

be applied to inspire and improve each other and providing readers direct links to instruments that cover a broad range of topics and have been shown to work in more than 70 countries The book's initial chapters introduce and summarize recent discussions and developments in the conceptualization implementation and evaluation of international large scale context assessments and provide an outlook on possible future developments Subsequently three thematic sections Student Background Outcomes of Education Beyond Achievement and Learning in Schools each present a series of chapters that provide the conceptual background for a wide range of important topics in education research policy and practice Each chapter defines a conceptual framework that relates recent findings in the educational effectiveness research literature to current issues in education policy and practice These frameworks were used to develop interesting and relevant indicators that may be used for meaningful reporting from international assessments other cross cultural research or national studies Using the example of one particular survey the Programme for International Student Assessment PISA 2015 this volume links all theoretical considerations to fully developed questionnaire material that was field tested and evaluated in questionnaires for students and their parents as well as teachers and principals in their schools The primary purposes of this book are to inform readers about how education effectiveness research and international large scale assessments are already interacting to inform research and policymaking to identify areas where a closer collaboration of both fields or input from other areas could further improve this work to provide sound theoretical frameworks for future work in both fields and finally to relate these theoretical debates to currently available and evaluated material for future context assessments

How We Teach Science John L. Rudolph, 2019-06-01 Despite an enduring belief that science should be taught there has been no enduring consensus about how or why This is especially true when it comes to teaching scientific process John Rudolph shows that how we think about and teach science will either sustain or thwart future innovation and determine how science is perceived by the public

UGC-NET/SET: Education (Paper II & III) JRF and Assistant Professor Exam Guide High Definition Books, EdPsych Modules Cheryl Cisero Durwin, Marla Reese-Weber, 2016-12-01 Now with SAGE Publications Cheryl Cisero Durwin and Marla Reese Weber's EdPsych Modules uses an innovative implementation of case studies and a modular format to address the challenge of effectively connecting theory and research to practice Each module is a succinct stand alone topic that represents every subject found in traditional chapter texts and can be used in any order for maximum flexibility in organizing your course Each of the book's eight units of modules begins with a set of four case studies early childhood elementary middle school and secondary and ends with Assess and Reflect and Evaluate questions and activities to encourage comprehension and application of the research and theories presented The case approach and the extensive pedagogy that support it allows students to constantly see the applications of the theories and research that they are studying in the text

The Complete Book of Colleges, 2017 Edition Princeton Review, 2016-07 The MEGA GUIDE to 1 355 COLLEGES AND UNIVERSITIES No one knows colleges better than The Princeton Review Inside The Complete Book of

Colleges 2017 Edition you ll find meticulously researched information that will help you narrow the search for the best college for you Each of the 1 355 user friendly profiles answers your questions including How much are tuition and other student fees and costs What types of financial aid are available and when are the applications due What do admissions officers most look for in test scores and recommendations Which majors are the most popular and have the highest enrollment What is the housing like and how accessible is technology on campus What are the key campus organizations athletics and student activities How selective is the school Plus Indexes based on cost selectivity and size that will help you narrow your search Get a leg up on your college search with this easy to use comprehensive and savvy guidebook from the experts at The Princeton Review **The Complete Book of Colleges, 2018 Edition** Princeton Review,2017-07 Includes information on admissions cost financial aid required and recommended admissions criteria cost breakdowns and types of financial aid for 1 355 colleges and universities **Explanatory Models, Unit Standards, and Personalized Learning in Educational Measurement** William P. Fisher Jr.,Paula J. Massengill,2022-10-15 The papers by Jack Stenner included in this book document the technical details of an art and science of measurement that creates new entrepreneurial business opportunities Jack brought theory instruments and data together in ways that are applicable not only in the context of a given test of reading or mathematics ability but which more importantly catalyzed literacy and numeracy capital in new fungible expressions Though Jack did not reflect in writing on the inferential constructive processes in which he engaged much can be learned by reviewing his work with his accomplishments in mind A Foreword by Stenner s colleague and co author on multiple works William P Fisher Jr provides key clues concerning a how Jack s understanding of measurement and its values aligns with social and historical studies of science and technology and b how recent developments in collaborations of psychometricians and metrologists are building on and expanding Jack s accomplishments This is an open access book

South African Schooling: The Enigma of Inequality Nic Spaull,Jonathan D. Jansen,2019-11-05 This volume brings together many of South Africa s leading scholars of education and covers the full range of South African schooling from financing and policy reform to in depth discussions of literacy numeracy teacher development and curriculum change The book moves beyond a historical analysis and provides an inside view of the questions South African scholars are now grappling with Are there different and preferential equilibria we have not yet thought of or explored and if so what are they In practical terms how does one get to a more equitable distribution of teachers resources and learning outcomes While decidedly local these questions resonate throughout the developing world South Africa today is the most unequal country in the world The richest 10% of South Africans lay claim to 65% of national income and 90% of national wealth This is the largest 90 10 gap in the world and one that is reflected in the schooling system Two decades after apartheid it is still the case that the life chances of most South African children are determined not by their ability or the result of hard work and determination but instead by the colour of their skin the province of their birth and the wealth of their parents Looking back on almost three decades of

democracy in South Africa it is this stubbornness of inequality and its patterns of persistence that demands explanation justification and analysis This is a landmark book on basic education in South Africa an essential volume for those interested in learning outcomes and their inequality in South Africa The various chapters present conceptually and empirically sophisticated analyses of learning outcomes across divisions of race class and place The book brings together the wealth of decades of research output from top quality researchers to explore what has improved what has not and why Prof Lant Pritchett Harvard University There is much wisdom in this collection from many of the best education analysts in South Africa No surprise that they conclude that without a large and sustained expansion in well trained teachers early childhood education and adequate school resources South Africa will continue to sacrifice its people s future to maintaining the privileges of the few Prof Martin Carnoy Stanford University Altogether one can derive from this very valuable volume if not an exact blueprint for the future then certainly at least a crucial and evidence based itinerary for the next few steps Dr Luis Crouch RTI

System Recall Alma Harris,Michelle S. Jones,2019-10-17 This book argues that much of what passes as contemporary educational reform in education is faulty and damaging It argues that it is time for a system recall and a need to look at what matters most in the pursuit of educational goals The book focuses on what we know about contemporary educational improvement transformation and change It will provide insights into what strategies work long term to build the capacity for principled change at the school and system level The book will consider what leaders can do to secure principled school and system improvement which fully embraces diversity equity and equality It will also dispel some myths about reform at scale and challenge some prevailing ideas about educational change that it will be posited are not helping many young people to reach their potential The main argument of the book is that too many school and system improvement initiatives have not paid sufficient attention to equity issues in their pursuit of ever higher achievement and that the net effect of large scale international assessments have been to distract policy makers in ways that have not always benefitted young people The book will use system examples to underpin and exemplify six core ways of re botting the system and generating progress for all It will highlight the implications for school and system leaders

Motivation for Learning and Performance Bobby Hoffman,2015-06-20 Designed for educators researchers practitioners or anyone interested in maximizing human potential Motivation for Learning and Performance outlines 50 key motivation principles based on the latest scientific evidence from the disciplines of psychology education business athletics and neurology Using a highly applied and conversational style the book is designed to inform the reader about how to diagnosis analyze and mediate learning and performance challenges influenced by motivation The book features chapters on the biopsychology of motivation how motivation changes across the lifespan and the important influence of culture on motivated behavior Three chapters are devoted to practical strategies and the implementation of motivational change Special sections are included on enhancing motivation at work in the classroom in competitive environments and during online education Hoffman employs

the innovative approach of using his interviews with real people including many notable personalities across diverse cultures and disciplines to illustrate motivated behavior For example readers will learn what motivated the colossal investment fraud masterminded by Bernie Madoff the intimate thoughts of former NFL superstar Nick Lowery when he missed a field goal and the joys and tribulations of Emmy nominated Curb your Enthusiasm actress Cheryl Hines The book provides a practical applied and multi disciplinary resource for anyone interested in motivation and performance but especially for university students at the graduate or undergraduate level studying education psychology business leadership hospitality sports management or military science Additionally the writing style and eclectic nature of the text will appeal to readers of non fiction who can use the book to gain self awareness to enhance performance of themselves or others Considers motivation for both learning and performance Identifies 50 foundational principles relating to motivation Provides research evidence supporting the foundational principles Includes interviews from famous individuals identifying what motivated them and why Includes research from psychology education neuroscience business and sports

Creating the Coding Generation in Primary Schools Steve Humble,2017-09-14 Creating the Coding Generation in Primary Schools sets out the what why and how of coding Written by industry innovators and experts it shows how you can bring the world of coding to your primary school practice It is packed with a range of inspirational ideas for the cross curricular teaching of coding from demystifying algebra in maths to teaching music to designing digital storytelling as well as an insight into the global movement of free coding clubs for young people such as CoderDojo and Girls Learning Code Key topics explored include what we mean by coding understanding and teaching computational thinking building pupils passion for and confidence with technologies artificial intelligence systems how gender impacts on coding STEM learning and Computer Science using Minecraft to improve pupil engagement fun projects using a Raspberry Pi Designed to be read from cover to cover or dipped into for ideas and advice Creating the Coding Generation in Primary Schools offers all teachers a deeper knowledge and understanding of coding that will help them support and inspire the coding generation It is cool to code

Educational Technology to Improve Quality and Access on a Global Scale Kay A. Persichitte,Atwi Suparman,Michael Spector,2017-11-16 This is an edited volume based on expanded versions of the best 30 papers presented at ETWC 2016 in Bali Included are contributions from the keynote speakers of ETWC 2016 Robert Branch Tian Belawati Steve Harmon Johannes Cronj Marc Childress Mike Spector Chairul Tanjung and Rudiantara The work is organized into the following sections a Effective Technology Integration in Teaching and Learning b Quality Design Development and Implementation c Innovation and Creativity in Distance Education and d Open Access Courses and Resources

Resources in Education ,1988

Enduring Issues In Special Education Barbara Bateman,John W. Lloyd,Melody Tankersley,2015-02-20 Enduring Issues in Special Education is aimed at any course in the undergraduate or graduate special education curriculum that is wholly or partly devoted to a critical examination of current issues in special education The book organizes 28 chapters into seven sections using familiar

structuring principles what who where how when why and whither Each section begins with an introduction that provides historical legal and theoretical background information and organizing commentary for the chapters that follow The book's objective in addition to informing readers about the issues is to develop critical thinking skills in the context of special education Key features include the following Dialectic Format Each of the 28 chapters presents compelling reasons for addressing the issue at hand and specific ways to do so Because each issue is written from different perspectives and focuses on a variety of aspects readers are encouraged to weigh the arguments seek additional information and come up with synthesized positions of their own Organizing Framework The book's seven sections have been arranged according to a scheme that is the essence of most investigative reporting and provides a coherent easy to understand framework for readers Expertise All chapters are written by leading scholars who are highly regarded experts in their fields and conclude with suggested readings and discussion questions for additional study

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web feb 21 2012 the most detailed account blue people of troublesome creek was published in 1982 by the university of indiana s cathy trost who described benjy s skin as almost purple the fugate progeny had a genetic condition called methemoglobinemia which was passed down through a recessive gene and blossomed through intermarriage

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