basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

ANNUAL NATIONAL ASSESSMENT 2014

GRADE 9 MATHEMATICS

MEMORANDUM

## This memorandum consists of 9 pages.

**Important Information:**

- This is a marking guideline. In instances where learners have used different but mathematically sound strategies to solve the problems they (learners) should be credited.
- Unless stated otherwise, learners who give a correct answer only, should be awarded full marks.
- Underline errors committed by learners and apply Consistent Accuracy (CA) marking.
- Do not penalise learners if units of measurement are omitted.

| KEY | |
|-----|-----|
| M | Method mark |
| CA | Consistent Accuracy mark |
| A | Accuracy mark |

## QUESTION 1

| 1. | 1.1 | D | 1.2 | C | 1.3 | B | 1.4 | A | 1.5 | D | Give 1 mark for each correct answer. | [10] |
|----|-----|---|-----|---|-----|---|-----|---|-----|---|------|------|
| | 1.6 | C | 1.7 | C | 1.8 | D | 1.9 | B | 1.10 | D | | |

## QUESTION 2

| 2.1 | $2.07 \times 10^{-7}$ ✓A | | | Answer: 1 mark | (1) |
|-----|------|---|---|------|-----|
| 2.2.1 | $\sqrt[3]{73 - (-3)^2} = \sqrt[3]{73 - 9}$ <br> $= \sqrt[3]{64}$ ✓M <br> $= 4$ ✓CA | | | Calculation: 1 mark <br> Answer: 1 mark <br> (Answer only: 1 mark) <br> (If the answer is a decimal number, no mark.) | (2) |
| 2.2.2 | $\sqrt{100} < \sqrt{110} < \sqrt{121}$ ✓M <br> $10 < \sqrt{110} < 11$ ✓A | | | $\sqrt{100}$ and $\sqrt{121}$ 1 mark <br> Answer: 1 mark <br> (Answer only: 1 mark) | (2) |
| 2.2.3 | $\dfrac{3 \times 5^4}{5^2} = 3 \times 5^2$ ✓M <br> $= 75$ ✓CA | | | Applying exponential law: 1 mark <br> Answer: 1 mark <br> (Answer only: 1 mark) | (2) |
| 2.3 | $1.03 \times 10^{-2} + 3.8 \times 10^{-3}$ <br> $= 0.0103 + 0.0038$ ✓M <br> $= 0.0141$ ✓CA | | | Simplification: 1 mark <br> Answer: 1 mark <br> (Answer only: 1 mark) | |
| | or | | | or | |
| | $= 10^{-2}(1.03 + 0.38)$ ✓M <br> $= 10^{-2}(1.41)$ <br> $= 0.0141$ ✓CA | or | $= 10^{-2}(10.3 + 3.8)$ ✓M <br> $= 10^{-2}(14.1)$ <br> $= 0.0141$ ✓CA | Taking out common factor: 1 mark <br> Answer: 1 mark <br> (Answer only: 1 mark) | (2) |
| | | | | | [9] |

# [Mathematics Ana 2014 Paper](#)

**Hussin A.Rothana**

**Mathematics Ana 2014 Paper:**

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 s still a deep discrepancy between the level of scientific knowledge and its implementation into actual educational settings Now it s 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    Nominal Pluralization and Countability in African Varieties of English Susanne Mohr,2021-10-28 This book is the first comprehensive analysis of nominal plural marking its morphosyntax and semantics across different African varieties of English Mohr explores the rich diversity in the varieties and how different conceptualizations of the number category are realized across different cultures The investigation of unstandardized noun plurals in Kenyan Tanzanian Ghanaian and Nigerian Englishes is based on a mixed methods design drawing on corpus linguistics acceptability questionnaires and psycholinguistic experiments In this vein the book not only contributes to the description of each of these four varieties but also sheds light on standardization processes and language change in New Englishes Importantly it is a plea for the triangulation of data and mixed methods approaches in World Englishes research as the combination of these methods grants insight into unforeseen areas of language structures and use This volume is a useful reference work for students and researchers in World Englishes varieties of English and African Studies as well as those interested in linguistic anthropology    Mathematics Education in Brazil Alessandro Jacques Ribeiro,Lulu Healy,Rute Elizabete de Souza Rosa Borba,Solange Hassan Ahmad Ali Fernandes,2018-08-14 This book presents for the first time in English the state of the art of Mathematics Education research in Brazil a country that has the strongest community in this field in Latin America Edited by leading researchers in the area the volume provides the international academic community a summary of the scientific production of the thirteen working groups of the Brazilian Society of Mathematics Education SBEM

the national scientific society that brings together researchers teachers students and other professionals of the area These working groups meet every three years at the International Seminar of Mathematics Education SIPEM and cover the following topics Mathematics Education in the Early Years and Primary Education Y1 Y5 Mathematics Education in the Middle School Y6 Y9 Mathematics Education in the High School Y10 Y12 Mathematics Education at the University level History of Mathematics Culture and Mathematics Education Digital Technologies and Distance Education Teacher Education Assessment and Mathematics Education Cognitive and Linguistic Processes in Mathematics Education Mathematical Modeling Philosophy of Mathematics Education Teaching Probability and Statistics and Difference Inclusion and Mathematics Education Each chapter of the book presents an overview of the production of a working group and they are all preceded by an introduction by professor Ubiratan D Ambrosio one of the pioneers of Mathematics Education in Brazil

**Analytic Number Theory, Modular Forms and q-Hypergeometric Series** George E. Andrews,Frank Garvan,2018-02-01 Gathered from the 2016 Gainesville Number Theory Conference honoring Krishna Alladi on his 60th birthday these proceedings present recent research in number theory Extensive and detailed this volume features 40 articles by leading researchers on topics in analytic number theory probabilistic number theory irrationality and transcendence Diophantine analysis partitions basic hypergeometric series and modular forms Readers will also find detailed discussions of several aspects of the path breaking work of Srinivasa Ramanujan and its influence on current research Many of the papers were motivated by Alladi s own research on partitions and q series as well as his earlier work in number theory Alladi is well known for his contributions in number theory and mathematics His research interests include combinatorics discrete mathematics sieve methods probabilistic and analytic number theory Diophantine approximations partitions and q series identities Graduate students and researchers will find this volume a valuable resource on new developments in various aspects of number theory    *Stress-Free Math* Theresa R. Fitzgerald,2021-09-03 Equipped with the 1 guide to help kids and their parents with math homework students will be able to quickly find the definitions and illustrated examples that will enable them to solve many of the math challenges they face Covering everything from addend to zero Stress Free Math Is perfect for both kids and their parents looking for help with math homework and the tools to ace the class Gives students in grades 4 9 more than 400 definitions full color illustrations and examples Covers subjects like measurement algebra geometry fractions and decimals statistics and probability and problem solving Helps students solve math problems with confidence Is a fully updated reimagining of the best selling Math Dictionary for Kids This well organized and easy to follow quick reference guide includes illustrated concise explanations of the most common terms used in general math classes Packed with strategies to help students get better grades and master math concepts without any headaches this math study guide also discusses how students can use manipulatives and basic math tools to improve their understanding and includes handy measurement conversion tables guides to geometric shapes and more Each concept covered has a concise definition

and an example or illustration Grades 4 9 **(Free Sample) AFCAT Study Package - Study Material + Solved Papers + 5 Online Practice Sets** Disha Experts,2020-01-04 **Real and Complex Singularities** Ana Claudia Nabarro,Juan J. Nuño-Ballesteros,Raúl Oset Sinha,Maria Aparecida Soares Ruas,2016-10-25 This volume is a collection of papers presented at the XIII International Workshop on Real and Complex Singularities held from July 27 August 8 2014 in S o Carlos Brazil in honor of Mar a del Carmen Romero Fuster s 60th birthday The volume contains the notes from two mini courses taught during the workshop on intersection homology by J P Brasselet and on non isolated hypersurface singularities and L cycles by D Massey The remaining contributions are research articles which cover topics from the foundations of singularity theory including classification theory and invariants to topology of singular spaces links of singularities and semi algebraic sets as well as applications to topology cobordism and Lefschetz fibrations dynamical systems Morse Bott functions and differential geometry affine geometry Gauss maps caustics frontals and non Euclidean geometries This book is published in cooperation with Real Sociedad Matem tica Espa ola RSME **Advances in Summability and Approximation Theory** S. A. Mohiuddine,Tuncer Acar,2018-12-30 This book discusses the Tauberian conditions under which convergence follows from statistical summability various linear positive operators Urysohn type nonlinear Bernstein operators and also presents the use of Banach sequence spaces in the theory of infinite systems of differential equations It also includes the generalization of linear positive operators in post quantum calculus which is one of the currently active areas of research in approximation theory Presenting original papers by internationally recognized authors the book is of interest to a wide range of mathematicians whose research areas include summability and approximation theory One of the most active areas of research in summability theory is the concept of statistical convergence which is a generalization of the familiar and widely investigated concept of convergence of real and complex sequences and it has been used in Fourier analysis probability theory approximation theory and in other branches of mathematics The theory of approximation deals with how functions can best be approximated with simpler functions In the study of approximation of functions by linear positive operators Bernstein polynomials play a highly significant role due to their simple and useful structure And during the last few decades different types of research have been dedicated to improving the rate of convergence and decreasing the error of approximation **Numerical Mathematics and Advanced Applications ENUMATH 2023, Volume 1** Adélia Sequeira,Ana Silvestre,Svilen S. Valtchev,João Janela,2025-04-24 This book gathers outstanding papers presented at the European Conference on Numerical Mathematics and Advanced Applications ENUMATH 2023 The conference was held in Lisbon Portugal in September 2023 Leading experts in the field presented the latest results and ideas regarding the design implementation and analysis of numerical algorithms as well as their applications to relevant societal problems ENUMATH is a series of conferences held every two years to provide a forum for discussing basic aspects and new trends in numerical mathematics and its scientific and industrial applications all examined at the highest level of international expertise The first

ENUMATH was held in Paris in 1995 with successive installments at various sites across Europe including Heidelberg 1997 Jyvaskyla 1999 lschia Porto 2001 Prague 2003 Santiago de Compostela 2005 Graz 2007 Uppsala 2009 Leicester 2011 Lausanne 2013 Ankara 2015 Bergen 2017 and Egmond aan Zee 2019 **Annual Performance Plan** Mpumalanga (South Africa). Department of Education,2016 *New Advances in Information Systems and Technologies* Álvaro Rocha,Ana Maria Correia,Hojjat Adeli,Luis Paulo Reis,Marcelo Mendonça Teixeira,2016-03-15 This book contains a selection of articles from The 2016 World Conference on Information Systems and Technologies WorldCIST 16 held between the 22nd and 24th of March at Recife Pernambuco Brazil WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations current trends professional experiences and challenges of modern Information Systems and Technologies research together with their technological development and applications The main topics covered are Information and Knowledge Management Organizational Models and Information Systems Software and Systems Modeling Software Systems Architectures Applications and Tools Multimedia Systems and Applications Computer Networks Mobility and Pervasive Systems Intelligent and Decision Support Systems Big Data Analytics and Applications Human Computer Interaction Health Informatics Information Technologies in Education Information Technologies in Radiocommunications **Mathematical Analysis, Probability and Applications – Plenary Lectures** Tao Qian,Luigi G. Rodino,2016-08-25 This book collects lectures given by the plenary speakers at the 10th International ISAAC Congress held in Macau China in 2015 The contributions authored by eminent specialists present some of the most exciting recent developments in mathematical analysis probability theory and related applications Topics include partial differential equations in mathematical physics Fourier analysis probability and Brownian motion numerical analysis and reproducing kernels The volume also presents a lecture on the visual exploration of complex functions using the domain coloring technique Thanks to the accessible style used readers only need a basic command of calculus Sequential Experiments with Primes Mihai Caragiu,2017-06-22 With a specific focus on the mathematical life in small undergraduate colleges this book presents a variety of elementary number theory insights involving sequences largely built from prime numbers and contingent number theoretic functions Chapters include new mathematical ideas and open problems some of which are proved in the text Vector valued MGPF sequences extensions of Conway s Subprime Fibonacci sequences and linear complexity of bit streams derived from GPF sequences are among the topics covered in this book This book is perfect for the pure mathematics minded educator in a small undergraduate college as well as graduate students and advanced undergraduate students looking for a significant high impact learning experience in mathematics **Compactifications, Configurations, and Cohomology** Peter Crooks,Alexandru I. Suciu,2023-09-25 This volume contains the proceedings of the Conference on Compactifications Configurations and Cohomology held from October 22 24 2021 at Northeastern University Boston MA Some of the most active and fruitful mathematical research occurs at the interface of algebraic geometry representation theory and topology

Noteworthy examples include the study of compactifications in three specific settings algebraic group actions configuration spaces and hyperplane arrangements These three types of compactifications enjoy common structural features including relations to root systems combinatorial descriptions of cohomology rings the appearance of iterated blow ups the geometry of normal crossing divisors and connections to mirror symmetry in physics On the other hand these compactifications are often studied independently of one another The articles focus on new and existing connections between the aforementioned three types of compactifications thereby setting the stage for further research It draws on the discipline specific expertise of all contributors and at the same time gives a unified self contained reference for compactifications and related constructions in different contexts     Truth, Objects, Infinity Fabrice Pataut,2017-01-27 This volume features essays about and by Paul Benacerraf whose ideas have circulated in the philosophical community since the early nineteen sixties shaping key areas in the philosophy of mathematics the philosophy of language the philosophy of logic and epistemology The book started as a workshop held in Paris at the Coll ge de France in May 2012 with the participation of Paul Benacerraf The introduction addresses the methodological point of the legitimate use of so called Princess Margaret Premises in drawing philosophical conclusions from G del s first incompleteness theorem The book is then divided into three sections The first is devoted to an assessment of the improved version of the original dilemma of Mathematical Truth due to Hartry Field the challenge to the platonist is now to explain the reliability of our mathematical beliefs given the very subject matter of mathematics either pure or applied The second addresses the issue of the ontological status of numbers Frege s logicism fictionalism structuralism and Bourbaki s theory of structures are called up for an appraisal of Benacerraf s negative conclusions of What Numbers Could Not Be The third is devoted to supertasks and bears witness to the unique standing of Benacerraf s first publication Tasks Super Tasks and Modern Eleatics in debates on Zeno s paradox and associated paradoxes infinitary mathematics and constructivism and finitism in the philosophy of mathematics Two yet unpublished essays by Benacerraf have been included in the volume an early version of Mathematical Truth from 1968 and an essay on What Numbers Could Not Be from the mid 1970 s A complete chronological bibliography of Benacerraf s work to 2016 is provided Essays by Jody Azzouni Paul Benacerraf Justin Clarke Doane S bastien Gandon Brice Halimi Jon P rez Laraudogoitia Mary Leng Antonio Le n S nchez and Ana C Le n Mej a Marco Panza Fabrice Pataut Philippe de Rouilhan Andrea Sereni and Stewart Shapiro     **Reality and its Structure** Ricki Bliss,Graham Priest,2018-05-10 Reality is a rather large place It contains protons economies headaches sentences smiles asteroids crimes and numbers and very many other things Much of the content of our reality appears to depend on other of its content Economies for example appear to depend upon people and the way they behave amongst other things Some of the content of our reality also appears to be in some significant sense more important than other of its content Whilst none of us would wish to deny the very important role that economies play in our lives most of us would agree that without matter arranged certain ways in space for example there could be no economies in the first place Very many

contemporary philosophers are concerned with how exactly we are to fill in the details of this view What they are inclined to agree on is that reality has an over arching hierarchical structure ordered by relations of metaphysical dependence where chains of entities ordered by those dependence relations terminate in something fundamental It is also commonly taken for granted that what those dependence chains terminate in is merely contingently existent those things could have failed to exist and consistent they have no contradictory properties This volume brings together fifteen essays from leading and emerging scholars that address these core yet often under explored commitments      Lectures on Poisson Geometry Marius Crainic,Rui Loja Fernandes,Ioan Mărcuţ,2021-09-14 This excellent book will be very useful for students and researchers wishing to learn the basics of Poisson geometry as well as for those who know something about the subject but wish to update and deepen their knowledge The authors philosophy that Poisson geometry is an amalgam of foliation theory symplectic geometry and Lie theory enables them to organize the book in a very coherent way Alan Weinstein University of California at Berkeley This well written book is an excellent starting point for students and researchers who want to learn about the basics of Poisson geometry The topics covered are fundamental to the theory and avoid any drift into specialized questions they are illustrated through a large collection of instructive and interesting exercises The book is ideal as a graduate textbook on the subject but also for self study Eckhard Meinrenken University of Toronto      *Advances in Mathematical Modelling, Applied Analysis and Computation* Jagdev Singh,George A. Anastassiou,Dumitru Baleanu,Devendra Kumar,2023-04-12 The book is very useful for researchers graduate students and educators associated with or interested in recent advances in different aspects of modelling computational methods and techniques necessary for solving problems arising in the real world problems The book includes carefully peer reviewed research articles presented in the 5th International Conference on Mathematical Modelling Applied Analysis and Computation held at JECRC University Jaipur during 4 6 August 2022 concentrating on current advances in mathematical modelling and computation via tools and techniques from mathematics and allied areas It is focused on papers dealing with necessary theory and methods in a balanced manner and contributes towards solving problems arising in engineering control systems networking system environment science health science physical and biological systems social issues of current interest etc      **Inequality in America** Stephen M. Caliendo,2018-05-15 Why does inequality have such a hold on American society and public policy And what can we as citizens do about it Inequality in America takes an in depth look at race class and gender based inequality across a wide range of issues from housing and education to crime employment and health Caliendo explores how individual attitudes can affect public opinion and lawmakers policy solutions He also illustrates how these policies result in systemic barriers to advancement that often then contribute to individual perceptions This cycle of disadvantage and advantage can be difficult though not impossible to break Representing and What Can I Do feature boxes throughout the book highlight key public figures who have worked to combat inequality and encourage students to take action to do the same The second

edition has been thoroughly revised to include the most current data and to cover recent issues and events like the 2016 elections and the Black Lives Matter movement It now also includes a brand new chapter on crime and criminal justice and an expanded discussion of immigration Concise and accessible Inequality in America paves the way for students to think critically about the attitudes behaviors and structures of inequality

**Neutrosophic Sets and Systems, Vol. 83, 2025**
Florentin Smarandache,Mohamed Abdel-Basset,Maikel Leyva Vazquez, Volume 83 of Neutrosophic Sets and Systems features a diverse collection of research applying neutrosophic theory to address complex challenges across various fields including information science engineering and healthcare The papers in this volume present new models and methodologies that effectively handle uncertainty indeterminacy and imprecision Significant theoretical contributions include the exploration of concepts like Neutrosophic Metric Spaces Fermatean Neutrosophic Graphs and SuperHyperSoft Sets along with their applications in fields like energy supply systems and fixed point theorems The volume also highlights practical applications in multi criteria decision making MCDM for areas such as entrepreneurial education and civil litigation efficiency Furthermore research is presented on the use of neutrosophic logic with advanced technologies like deep learning and machine learning for tasks such as brain tumor medical image analysis and sleep disorder prediction The collection also includes studies on risk management digital media arts evaluation and natural language processing This volume demonstrates the expansive and evolving utility of neutrosophic theory in both foundational research and real world problem solving

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**Table of Contents Mathematics Ana 2014 Paper**

1. Understanding the eBook Mathematics Ana 2014 Paper
    - The Rise of Digital Reading Mathematics Ana 2014 Paper
    - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Ana 2014 Paper
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Mathematics Ana 2014 Paper
    - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Ana 2014 Paper

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