

The Grade 9 Maths ANA – What Can We See After Three Years?

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INTRODUCTION

The Annual National Assessments (ANA) were introduced to address South Africa's poor performance in international mathematics assessments such as TIMSS and SACMEQ. The Grade 9 test was first written in 2012 with a national average of 12.7%. In 2013 the average increased to 13.9% but then dropped to 10.8% in 2014. The overall picture is one of very poor performance with the result that many questions are being asked about the value and purpose of the ANA.

The Department of Basic Education (DBE) identifies three purposes for the ANAs: (1) a measure for the state to gauge improvement in the education system, based on learner performance year-on-year; (2) a diagnostic assessment to identify areas of weakness in learners' performance; and (3) to provide a model of good assessment practice. While these are all important goals, they are not necessarily achievable through a single instrument. However, this is not the focus of our article. Our purpose here is to report on a content analysis of the three ANA papers which we undertook in the first quarter of 2015, paying particular attention to cognitive demand and levels of difficulty. We share our findings on these aspects, as well as on trends that arise as we look across the first three years of the Grade 9 Maths ANA.

CLASSIFICATION OF ITEMS

Classification of items into taxonomies is never a simple matter, and there are no perfect taxonomies. We have attempted to use existing taxonomies with which teachers are familiar but we are not suggesting that these are definitive levels or categories.

LEVELS OF COGNITIVE DEMAND

Levels of cognitive demand describe the nature of the item in terms of the mathematical demand. An early Grade 9 ANA document (DBE, 2011) distinguishes three levels: knowledge of basic concepts, application of concepts and non-routine problem solving. However, we chose to work with the four levels of cognitive demand as described in the CAPS document since these are the levels that teachers work with regularly.

- *Knowledge* – requires straight recall, use of mathematical facts, identification and direct use of formulae.
- *Routine procedure* – well-rehearsed and familiar algorithms, simple calculations that may involve several steps, use of formulae requiring change of subject.
- *Complex procedure* – several calculations that are not all of the same type, complex calculations, route to solution is not entirely obvious, connecting representations, developing proof, requires conceptual understanding.
- *Problem solving* – unseen, non-routine problems, route to solution is not suggested, also requires conceptual understanding.

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Il principio di minimo e sue applicazioni alle equazioni funzionali S. Faedo, 2011-06-14 L Nirenberg On elliptic partial differential equations S Agmon The L_p approach to the Dirichlet problems C B Morrey Jr Multiple integral problems in the calculus of variations and related topics L Bers Uniformizzazione e moduli **Annual Performance Plan** Mpumalanga (South Africa). Department of Education, 2015 *Theory of Functional Differential Equations* Jack K. Hale, 2012-12-06 Since the publication of my lecture notes *Functional Differential Equations* in the Applied Mathematical Sciences series many new developments have occurred As a consequence it was decided not to make a few corrections and additions for a second edition of those notes but to present a more comprehensive theory The present work attempts to consolidate those elements of the theory which have stabilized and also to include recent directions of research The following chapters were not discussed in my original notes Chapter 1 is an elementary presentation of linear differential difference equations with constant coefficients of retarded and neutral type Chapter 4 develops the recent theory of dissipative systems Chapter 9 is a new chapter on perturbed systems Chapter 11 is a new presentation incorporating recent results on the existence of periodic solutions of autonomous equations Chapter 12 is devoted entirely to neutral equations Chapter 13 gives an introduction to the global and generic theory There is also an appendix on the location of the zeros of characteristic polynomials The remainder of the material has been completely revised and updated with the most significant changes occurring in Chapter 3 on the properties of solutions Chapter 5 on stability and Chapter 10 on behavior near a periodic orbit Frontiers in Number Theory, Physics, and Geometry II Pierre E. Cartier, Bernard Julia, Pierre Moussa, Pierre Vanhove, 2007-07-18 Ten years after a 1989 meeting of number theorists and physicists at the Centre de Physique des Houches a second event focused on the broader interface of number theory geometry and physics This book is the first of two volumes resulting from that meeting Broken into three parts it covers Conformal Field Theories Discrete Groups and Renormalization offering extended versions of the lecture courses and shorter texts on special topics **Complex Analysis** Klas Diederich, 2013-04-17 This volume contains the Proceedings of the International Workshop Complex Analysis which was held from February 12-16 1990 in Wuppertal Germany in honour of H Grauert one of the most creative mathematicians in Complex Analysis of this century In complete accordance with the width of the work of Grauert the book contains research notes and longer articles of many important mathematicians from all areas of Complex Analysis Altogether there are 49 articles in the volume Some of the main subjects are Cauchy Riemann Equations with estimates of convexity CR structures deformation theory envelopes of holomorphy function algebras complex group actions Hodge theory instantons Kähler geometry Lefschetz theorems holomorphic mappings Nevanlinna theory complex singularities twistor theory uniformization *Merging Numeracy with Literacy Practices for Equity in Multilingual Early Year Settings* Robyn Jorgensen, Mellony Graven, 2022-01-01 This book draws on both in and out of school literacy practices with teachers and families to enhance the numeracy of early learners It

provides highly illustrative exemplars targeted for learners up to approximately eight years of age whose home language differs from the language of instruction It identifies the challenges faced by these learners and their families and shares ways of building both literacy and numeracy skills for some of the vulnerable learners nationally and internationally The book shares the outcomes and strategies for teaching mathematics to early years learners and highlights the importance of literacy practices for learners for whom the language of instruction is different from their home language Readers will gain a practical sense of how to create contexts classrooms and practices to scaffold these learners to build robust understandings of mathematics

Harmonic Maps: Selected Papers By James Eells And Collaborators James Eells,1992-08-21 These original research papers written during a period of over a quarter of a century have two main objectives The first is to lay the foundations of the theory of harmonic maps between Riemannian Manifolds and the second to establish various existence and regularity theorems as well as the explicit constructions of such maps

Idempotent Mathematics and Mathematical Physics Grigoriĭ Lazarevich Litvinov,Viktor Pavlovich Maslov,2005 Idempotent mathematics is a rapidly developing new branch of the mathematical sciences that is closely related to mathematical physics The existing literature on the subject is vast and includes numerous books and journal papers A workshop was organized at the Erwin Schrodinger Institute for Mathematical Physics Vienna to give a snapshot of modern idempotent mathematics This volume contains articles stemming from that event Also included is an introductory paper by G Litvinov and additional invited contributions The resulting volume presents a comprehensive overview of the state of the art It is suitable for graduate students and researchers interested in idempotent mathematics and tropical mathematics

Encyclopaedia of Mathematics (set) Michiel Hazewinkel,1994-02-28 The Encyclopaedia of Mathematics is the most up to date authoritative and comprehensive English language work of reference in mathematics which exists today With over 7 000 articles from A integral to Zygmund Class of Functions supplemented with a wealth of complementary information and an index volume providing thorough cross referencing of entries of related interest the Encyclopaedia of Mathematics offers an immediate source of reference to mathematical definitions concepts explanations surveys examples terminology and methods The depth and breadth of content and the straightforward careful presentation of the information with the emphasis on accessibility makes the Encyclopaedia of Mathematics an immensely useful tool for all mathematicians and other scientists who use or are confronted by mathematics in their work The Encyclopaedia of Mathematics provides without doubt a reference source of mathematical knowledge which is unsurpassed in value and usefulness It can be highly recommended for use in libraries of universities research institutes colleges and even schools

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Streck,2022-08-22 Akkadian written in the cuneiform script is the most important language of the Ancient Near East and one of the most important members of the Semitic language family Old Babylonian is the best attested period and dialect of Akkadian Old Babylonian was written all over Mesopotamia modern Iraq Syria and some neighboring regions during the first half of the 2nd millennium BCE The book describes the language of middle Old Babylonian from the kings Sin muballit to Samsu iluna Volume 1 extensively describes the orthography phonology nouns pronouns and numbers of Old Babylonian

Mathematical Analysis and Numerical Methods Aliaa Burqan,Rania Saadeh,Ahmad Qazza,Osama Yusuf Ababneh,Juan C. Cortés,Kai Diethelm,Dia Zeidan,2024-10-05 This book presents a thoughtful compilation of chapters derived from the proceedings of the 8th International Arab Conference on Mathematics and Computations IACMC 2023 held at Zarqa University in Zarqa Jordan from 10 12 May 2023 Encompassing a broad spectrum of themes crucial to contemporary research and development the book delved into subjects ranging from partial and differential equations to fractional calculus from probability and statistics to graph theory and from approximation theory to nonlinear dynamics Moreover it explores pivotal areas such as numerical analysis and methods as well as fostering interdisciplinary mathematical research initiatives Building upon the legacy of its predecessors IACMC 2023 served as a premier platform for scholars researchers and industry professionals to converge and exchange insights on a myriad of cutting edge advancements and practical applications within the realm of mathematical sciences This volume encapsulates the essence of IACMC 2023 offering readers a comprehensive overview of the latest breakthroughs and trends in mathematical sciences while serving as a testament to the collaborative spirit and intellectual vigor that define this esteemed conference series **Encyclopedic Dictionary of Mathematics**

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Recent Developments in Quantum Mechanics Anne Boutet de Monvel,P. Dita,G. Nenciu,Radu Purice,2012-12-06

Proceedings of the Brasov Conference Poiana Brasov 1989 Romania **Summability Theory And Its Applications** Feyzi

Basar,2012-09-07 The theory of summability has many uses throughout analysis and applied mathematics Engineers and physicists working with Fourier series or analytic continuation will also find the concepts of summability theory valuable to their research The concepts of summability have been extended to the sequences of fuzzy numbers and also to the theorems of ergodic theory This ebook explains various aspects of summability and demonstrates applications in a coherent manner The content can readily serve as a useful series of lecture notes on the subject This ebook comprises of 8 chapters starting from classical sequence spaces and covering matrix transformations and fuzzy numbers An accompanying bibliography with extensive references makes this a valuable source of information for readers interested in summability theory as well as other branches of science **Math for Life 6' 2006 Ed. ,** *Handbook of Geometry and Topology of Singularities IV* José

Luis Cisneros-Molina,Lê Dũng Tráng,José Seade,2023-10-07 This is the fourth volume of the Handbook of Geometry and Topology of Singularities a series that aims to provide an accessible account of the state of the art of the subject its frontiers and its interactions with other areas of research This volume consists of twelve chapters which provide an in depth and reader friendly survey of various important aspects of singularity theory Some of these complement topics previously explored in volumes I to III Amongst the topics studied in this volume are the Nash blow up the space of arcs in algebraic varieties determinantal singularities Lipschitz geometry indices of vector fields and 1 forms motivic characteristic classes the Hilbert Samuel multiplicity and comparison theorems that spring from the classical De Rham complex Singularities are ubiquitous in mathematics and science in general Singularity theory is a crucible where different types of mathematical problems interact surprising connections are born and simple questions lead to ideas which resonate in other subjects Authored by world experts the various contributions deal with both classical material and modern developments covering a wide range of topics which are linked to each other in fundamental ways The book is addressed to graduate students and newcomers to the theory as well as to specialists who can use it as a guidebook *Introduction to Lipschitz Geometry of Singularities* Walter Neumann,Anne Pichon,2021-01-11 This book presents a broad overview of the important recent progress which led to the emergence of new ideas in Lipschitz geometry and singularities and started to build bridges to several major areas of singularity theory Providing all the necessary background in a series of introductory lectures it also contains Pham and Teissier s previously unpublished pioneering work on the Lipschitz classification of germs of plane complex algebraic curves While a real or complex algebraic variety is topologically locally conical it is in general not metrically conical there are parts of its link with non trivial topology which shrink faster than linearly when approaching the special point The essence of the Lipschitz geometry of singularities is captured by the problem of building classifications of

the germs up to local bi Lipschitz homeomorphism The Lipschitz geometry of a singular space germ is then its equivalence class in this category The book is aimed at graduate students and researchers from other fields of geometry who are interested in studying the multiple open questions offered by this new subject

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