



ANNUAL NATIONAL ASSESSMENT 2013
GRADE 1 MATHEMATICS
MEMORANDUM
EXEMPLAR QUESTIONS

This memorandum consists of 4 pages.

General marking notes:

1. Give full marks for answers only, unless otherwise stated.
2. Accept any alternative correct answer that is not included in the memoranda unless otherwise stated

NO HALF MARK TO BE AWARDED.

QUESTION	EXPECTED ANSWER(S)		MARK(S)	TOTAL
1.	 Accept if it's a marked, ticked or circled		1 1 1 mark each	3
2.	a.	7 ✓	1	4
	b.	Nine ✓	1	
	c.	8 ✓ and eight ✓	2	
3.	a.	6; 8; 12 ✓	1	3
	b.	10; 20; 30 ✓	1	
	c.	16; 19 ✓	1	
		(Award one mark if all 3 are correct. No mark awarded if only 1 or 2 numbers are correct)		
4.	a.	14 ✓	1	3
	b.	12 ✓	1	
	c.	9 ✓	1	
5.	a.		1	3

Ana 2013 Memo Mathematics Grade 6

**James M. Kauffman, Daniel P.
Hallahan, Paige Cullen Pullen**



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The Mathematics of Shuffling Cards Persi Diaconis, Jason Fulman, 2023-03-20 This book gives a lively development of the mathematics needed to answer the question How many times should a deck of cards be shuffled to mix it up The shuffles studied are the usual ones that real people use riffle overhand and smooshing cards around on the table The mathematics ranges from probability Markov chains to combinatorics symmetric function theory to algebra Hopf algebras There are applications to magic tricks and gambling along with a careful comparison of the mathematics to the results of real people shuffling real cards The book explores links between shuffling and higher mathematics Lie theory algebraic topology the geometry of hyperplane arrangements stochastic calculus number theory and more It offers a useful springboard for seeing how probability theory is applied and leads to many corners of advanced mathematics The book can serve as a text for an upper division course in mathematics statistics or computer science departments and will be appreciated by graduate students and researchers in mathematics statistics and computer science as well as magicians and people with a strong background in mathematics who are interested in games that use playing cards Analytic Trends in Mathematical Physics Houssam Abdul-Rahman, Robert Sims, Amanda Young, 2020-01-06 This volume contains the proceedings of the Arizona School of Analysis and Mathematical Physics held from March 5 9 2018 at the University of Arizona Tucson Arizona A main goal of this school was to introduce graduate students and postdocs to exciting topics of current research that are both influenced by physical intuition and require the use of cutting edge mathematics The articles in this volume reflect recent progress and innovative techniques developed within mathematical physics Two works investigate spectral gaps of quantum spin systems Specifically Abdul Rahman Lemm Lucia Nachtergaele and Young consider decorated AKLT models and Lemm demonstrates a finite size criterion for D dimensional models Bachmann De Roeck and Fraas summarize a recent proof of the adiabatic theorem while Bachmann Bols De Roeck and Fraas discuss linear response for interacting Hall insulators Models on general graphs are the topic of the articles by Fischbacher on higher spin XXZ and by Latushkin and Sukhtaiev on an index theorem for Schrödinger operators Probabilistic applications are the focus of the articles by DeMuse and Yin on exponential random graphs by Saenz on KPZ universality and by Stolz on disordered quantum spin chains In all the diversity represented here is a testament to the enthusiasm this rich field of mathematical physics generates Non-Semisimple Extended Topological Quantum Field Theories Marco De Renzi, 2022-05-24 View the abstract *From the Basic Homotopy Lemma to the Classification of C^* -algebras* Huaxin Lin, 2017-08-11 This book examines some recent developments in the theory of algebras which are algebras of operators on Hilbert spaces An elementary introduction to the technical part of the theory is given via a basic homotopy lemma concerning a pair of almost commuting unitaries The book presents an outline of the background as well as some recent results of the classification of simple amenable algebras otherwise known as the Elliott program This includes some stable uniqueness theorems and a revisiting of Bott maps via stable homotopy Furthermore theory related

rotation maps are introduced The book is based on lecture notes from the CBMS lecture sequence at the University of Wyoming in the summer of 2015 **Wireless Communications** Keith Q. T. Zhang, 2015-12-14 Understand the mechanics of wireless communication Wireless Communications Principles Theory and Methodology offers a detailed introduction to the technology Comprehensive and well rounded coverage includes signaling transmission and detection including the mathematical and physics principles that underlie the technology s mechanics Problems with modern wireless communication are discussed in the context of applied skills and the various approaches to solving these issues offer students the opportunity to test their understanding in a practical manner With in depth explanations and a practical approach to complex material this book provides students with a clear understanding of wireless communication technology

Multicultural Instructional Design: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2019-07-05 As the world becomes more globalized student populations in educational settings will continue to grow in diversity To ensure students develop the cultural competence to adapt to new environments educational institutions must develop curriculum policies and programs to aid in the progression of cultural acceptance and understanding Multicultural Instructional Design Concepts Methodologies Tools and Applications is a vital reference source for the latest research findings on inclusive curriculum development for multicultural learners It also examines the interaction between culture and learning in academic environments and the efforts to mediate it through various educational venues Highlighting a range of topics such as intercultural communication student diversity and language skills this multi volume book is ideally designed for educators professionals school administrators researchers and practitioners in the field of education Analysis, Complex Geometry, and Mathematical Physics Paul M. N. Feehan, Jian Song, Ben Weinkove, Richard A. Wentworth, 2015-07-21 This volume contains the proceedings of the Conference on Analysis Complex Geometry and Mathematical Physics In Honor of Duong H Phong which was held from May 7 11 2013 at Columbia University New York The conference featured thirty speakers who spoke on a range of topics reflecting the breadth and depth of the research interests of Duong H Phong on the occasion of his sixtieth birthday A common thread familiar from Phong s own work was the focus on the interplay between the deep tools of analysis and the rich structures of geometry and physics Papers included in this volume cover topics such as the complex Monge Amp re equation pluripotential theory geometric partial differential equations theories of integral operators integrable systems and perturbative superstring theory Davenport-Zannier Polynomials and Dessins d'Enfants Nikolai M. Adrianov, Fedor Pakovich, Alexander K. Zvonkin, 2020-06-29 The French expression dessins d'enfants means children s drawings This term was coined by the great French mathematician Alexandre Grothendieck in order to denominate a method of pictorial representation of some highly interesting classes of polynomials and rational functions The polynomials studied in this book take their origin in number theory The authors show how by drawing simple pictures one can prove some long standing conjectures and formulate new ones The theory presented here

touches upon many different fields of mathematics The major part of the book is quite elementary and is easily accessible to an undergraduate student The less elementary parts such as Galois theory or group representations and their characters would need a more profound knowledge of mathematics The reader may either take the basic facts of these theories for granted or use our book as a motivation and a first approach to these subjects

Descriptive Complexity of Formal Systems Michal Hospodár, Galina Jirásková, Stavros Konstantinidis, 2019-07-08 This book constitutes the proceedings of the 21st International Conference on Descriptive Complexity of Formal Systems DCFS 2019 held in Košice Slovakia in July 2019 The 18 full papers presented in this volume were carefully reviewed and selected from 25 submissions The book also contains 4 invited talks They deal with all aspects of descriptive complexity and costs of description of objects in various computational models such as Turing machines pushdown automata finite automata grammars and others

Official Gazette of the United States Patent and Trademark Office, 2005

Low-Rank and Sparse Modeling for Visual Analysis Yun Fu, 2014-10-30 This book provides a view of low rank and sparse computing especially approximation recovery representation scaling coding embedding and learning among unconstrained visual data The book includes chapters covering multiple emerging topics in this new field It links multiple popular research fields in Human Centered Computing Social Media Image Classification Pattern Recognition Computer Vision Big Data and Human Computer Interaction Contains an overview of the low rank and sparse modeling techniques for visual analysis by examining both theoretical analysis and real world applications

Willing's Press Guide and Advertisers' Directory and Handbook, 1989

Trees of Hyperbolic Spaces Michael Kapovich, Pranab Sardar, 2024-08-15 This book offers an alternative proof of the Bestvina Feighn combination theorem for trees of hyperbolic spaces and describes uniform quasigeodesics in such spaces As one of the applications of their description of uniform quasigeodesics the authors prove the existence of Cannon Thurston maps for inclusion maps of total spaces of subtrees of hyperbolic spaces and of relatively hyperbolic spaces They also analyze the structure of Cannon Thurston laminations in this setting Furthermore some group theoretic applications of these results are discussed This book also contains background material on coarse geometry and geometric group theory

The Year That Broke Politics Luke A. Nichter, 2023-08-01 The unknown story of the election that set the tone for today's fractured politics A fresh authoritative analysis of a pivotal election year Kirkus Reviews The 1968 presidential race was a contentious battle between vice president Hubert Humphrey Republican Richard Nixon and former Alabama governor George Wallace The United States was reeling from the assassinations of Martin Luther King Jr and Robert F Kennedy and was bitterly divided on the Vietnam War and domestic issues including civil rights and rising crime Drawing on previously unexamined archives and numerous interviews Luke A Nichter upends the conventional understanding of the campaign Nichter chronicles how the evangelist Billy Graham met with Johnson after the president's attempt to reenter the race was stymied by his own party and offered him a deal Nixon if elected would continue Johnson's Vietnam War policy and also not oppose his Great Society if Johnson would soften his

support for Humphrey Johnson agreed Nichter also shows that Johnson was far more active in the campaign than has previously been described that Humphrey's resurgence in October had nothing to do with his changing his position on the war that Nixon's Southern Strategy has been misunderstood since he hardly even campaigned there and that Wallace's appeal went far beyond the South and anticipated today's Republican populism This eye opening account of the political calculations and maneuvering that decided this fiercely fought election reshapes our understanding of a key moment in twentieth century American history

Functional Analysis, Harmonic Analysis, and Image Processing Michael Cwikel, Mario Milman, 2017-07-26 This volume is dedicated to the memory of Björn Jawerth It contains original research contributions and surveys in several of the areas of mathematics to which Björn made important contributions Those areas include harmonic analysis image processing and functional analysis which are of course interrelated in many significant and productive ways Among the contributors are some of the world's leading experts in these areas With its combination of research papers and surveys this book may become an important reference and research tool This book should be of interest to advanced graduate students and professional researchers in the areas of functional analysis harmonic analysis image processing and approximation theory It combines articles presenting new research with insightful surveys written by foremost experts

Willing's Press Guide, 1989 A guide to the press of the United Kingdom and to the principal publications of Europe Australia the Far East Gulf States and the U S A

Access to Scientific Research David J. Brown, 2015-11-13 The debate about access to scientific research raises questions about the current effectiveness of scholarly communication processes This book explores from an independent point of view the current state of the STM publishing market new publishing technologies and business models as well as the information habit of researchers the politics of research funders and the demand for scientific research as a public good The book also investigates the democratisation of science including how the information needs of knowledge workers outside academia can be embraced in future

Igusa's p -Adic Local Zeta Function and the Monodromy Conjecture for Non-Degenerate Surface Singularities Bart Bories, Willem Veys, 2016-06-21 In 2011 Lemahieu and Van Proeyen proved the Monodromy Conjecture for the local topological zeta function of a non degenerate surface singularity The authors start from their work and obtain the same result for Igusa's p -adic and the motivic zeta function In the p -adic case this is for a polynomial $f \in \mathbb{Z}[x, y, z]$ satisfying $f(0, 0, 0) = 0$ and non degenerate with respect to its Newton polyhedron we show that every pole of the local p -adic zeta function of f induces an eigenvalue of the local monodromy of f at some point of $f^{-1}(0) \subset \mathbb{C}^3$ close to the origin Essentially the entire paper is dedicated to proving that for f as above certain candidate poles of Igusa's p -adic zeta function of f arising from so called B_1 facets of the Newton polyhedron of f are actually not poles This turns out to be much harder than in the topological setting The combinatorial proof is preceded by a study of the integral points in three dimensional fundamental parallelepipeds Together with the work of Lemahieu and Van Proeyen this main result leads to the Monodromy Conjecture for the p -adic and motivic zeta function of

a non degenerate surface singularity **Handbook of Special Education** James M. Kauffman, Daniel P. Hallahan, Paige Cullen Pullen, 2017-05-25 The purpose of the Handbook of Special Education is to help profile and bring greater clarity to the already sprawling and continuously expanding field of special education To ensure consistency across the volume chapter authors review and integrate existing research identify strengths and weaknesses note gaps in the literature and discuss implications for practice and future research The second edition has been fully updated throughout to take into account recent changes to federal laws as well as the most current academic research and an entirely new section has been added on research methods in special education Organizational Behavior Mary Uhl-Bien, Ronald F. Piccolo, John R. Schermerhorn, Jr., 2023-05-23 An accessible and practical discussion of organizational behavior In the newly updated third edition of Organizational Behavior a team of accomplished educators delivers a multidimensional text that combines analysis knowledge personal development and synthesis with useful pedagogical features that bring organizational behavior to life This edition reconsiders organizational behavior from an interdisciplinary vantage point showing students the interdependence of factors that explain human behavior Frequently addressed organizational behavior subjects are considered from within an integrated framework and are employed to answer functionally relevant questions about why people behave the ways in which they do as well as how to effectively influence and manage others

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