basic education

Department:
Basic Education
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ANNUAL NATIONAL ASSESSMENT 2013
GRADE 5 MATHEMATICS
MEMORANDUM

MARKS: 60

This memorandum consists of 3 pages.

Important information:
1. Give full marks for answers only, unless otherwise stated.
2. Accept any alternative correct solution that is not included in the memorandum.
3. CA refers to consistent accuracy. See clarification in question 8.1

Question		Expected Answer	Clarification	Mark allocation	Total
1.	1.1	B ✓		1	
	1.2	D ✓		1	
	1.3	C ✓		1	
	1.4	B ✓		1	
	1.5	C ✓		1	
	1.6	B ✓		1	
	1.7	A ✓		1	
	1.8	B ✓		1	8
2.	2.1	33 755 ✓		1	
	2.2	100 000 ✓		1	2
3.		200 000 or 2 Hundred Thousand or 2HTh ✓		1	1
4.		< ✓		1	1
5.		9 ✓		1	1
6.		19 ✓	(Rule 3 = 2 × 1 + 1, 5 = 2 × 2 + 1, 7 = 2 × 3 + 1) 19 = 2 × 9 + 1	1	
		25 ✓	25 = (51-1) ÷ 2	1	2
7.	7.1	True ✓		1	
	7.2	False ✓		1	
	7.3	True ✓		1	3
8.	8.1	11 523 21 275 + 7 356 ✓ 40 154 ✓ or 11 523 = 10 000 + 1 000 + 500 + 20 + 3 21 275 = 20 000 + 1 000 + 200 + 70 + 5 ✓ + 7 356 = 7 000 + 300 + 50 + 6 Sum = 40 000 + + 100 + 50 + 4 = 40 154 ✓ or 10 000 + 1 000 + 500 + 20 + 3 + 20 000 + 1 000 + 200 + 70 + 5 + 7 000 + 300 + 50 + 6 = 10 000 + 20 000 + 1 000 + 1 000 + 7 000 + 500 + 200 + 300 + 20 + 70 + 50 + 3 + 5 + 6 ✓ = 40 000 + 100 + 50 + 4 = 40 154 ✓	Arrangement of values: 1 mark Correct answer: 1 mark 11 523 21 275 X + 7 356 106 358 ✓ 1 mark for CA		2
	8.2	69 157 -17 239 ✓ 51 918 ✓	Arrangement of values: 1 mark Correct answer: 1 mark		2

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Lynne A. Weikart

Mathematics Pnovember 2013 Memo:

Ethnomathematics and its Diverse Approaches for Mathematics Education Milton Rosa,Lawrence Shirley,Maria Elena Gavarrete,Wilfredo V. Alangui,2017-07-25 This book addresses numerous issues related to ethnomathematics and diverse approaches to it in the context of mathematics education To help readers better understand the development of ethnomathematics it discusses its objectives and assumptions with regard to promoting an ethics of respect solidarity and cooperation across and for all cultures In turn the book addresses a range of aspects including pedagogical action culturally relevant pedagogy innovative approaches to ethnomathematics and the role of ethnomathematics in mathematics education Ethnomathematics offers educators a valuable framework for transforming mathematics so that it can more actively contribute to realizing the dream of a just and humane society As such its primary goal is to forge mathematics into a powerful tool to help people create a society characterized by dignity for all and in which iniquity arrogance violence and bigotry have no place **Mechatronics and Robotics** Marina Indri,Roberto Oboe,2020-11-24 The term mechatronics was coined in 1969 merging mecha from mechanism and tronics from electronics to reflect the original idea at the basis of this discipline that is the integration of electrical and mechanical systems into a single device The spread of this term and of mechatronics itself has been growing in the years including new aspects and disciplines like control engineering computer engineering and communication information engineering Nowadays mechatronics has a well defined and fundamental role in strict relation with robotics Drawing a sharp border between mechatronics and robotics is impossible as they share many technologies and objectives Advanced robots could be defined as mechatronic devices equipped with a smart brain but there are also up to date mechatronic devices used in tight interaction with humans that are governed by smart architectures for example for safety purposes Aim of this book is to offer a wide overview of new research trends and challenges for both mechatronics and robotics through the contribution of researchers from different institutions providing their view on specific subjects they consider as hot topics in both fields with attention to new fields of application new challenges to the research communities and new technologies available The reader of this book will enjoy the various contributions as they have been prepared with actual applications in mind along a journey from advanced actuators and sensors to human robot interaction through robot control navigation planning and programming issues The book presents several state of the art solutions like multiple stage actuation to cope with conflicting specification of large motion spans ultra high accuracy model based control for high tech mechatronic systems modern approaches of software systems engineering to robotics aand humanoids for human assistance The reader can also find new techniques in approaching the design of mechatronic systems in some possible industrial and service robotics scenarios with a particular attention for the interaction between humans and mechanisms The Most Important Year Suzanne Bouffard,2017-09-05 An eye opening look inside pre K in America and what it will take to give all children the best start in school possible At the heart of this groundbreaking book are two urgent

questions What do our young children need in the earliest years of school and how do we ensure that they all get it Cutting edge research has proven that early childhood education is crucial for all children to gain the academic and emotional skills they need to succeed later in life Children who attend quality pre K programs have a host of positive outcomes including better language literacy problem solving and math skills down the line and they have a leg up on what appears to be the most essential skill to develop at age four strong self control But even with this overwhelming evidence early childhood education is at a crossroads in America We know that children can and do benefit but we also know that too many of our littlest learners don t get that chance millions of parents can t find spots for their children or their preschoolers end up in poor quality programs With engrossing storytelling journalist Suzanne Bouffard takes us inside some of the country s best pre K classrooms to reveal the sometimes surprising ingredients that make them work and to understand why some programs are doing the opposite of what is best for children It also chronicles the stories of families and teachers from many backgrounds as they struggle to give their children a good start in school This book is a call to arms when we are at a crucial moment and perhaps on the verge of a missed opportunity We now have the means and the will to have universal pre kindergarten but we are also in grave danger of not getting it right   **Formality of the Little N-disks Operad** Pascal Lambrechts, Ismar Volić,2014-06-05 The little disks operad along with its variants is an important tool in homotopy theory It is defined in terms of configurations of disjoint dimensional disks inside the standard unit disk in and it was initially conceived for detecting and understanding fold loop spaces Its many uses now stretch across a variety of disciplines including topology algebra and mathematical physics In this paper the authors develop the details of Kontsevich s proof of the formality of little disks operad over the field of real numbers More precisely one can consider the singular chains on as well as the singular homology of These two objects are operads in the category of chain complexes The formality then states that there is a zig zag of quasi isomorphisms connecting these two operads The formality also in some sense holds in the category of commutative differential graded algebras The authors additionally prove a relative version of the formality for the inclusion of the little disks operad in the little disks operad when   **On the Spectra of Quantum Groups** Milen Yakimov,2014-04-07 Joseph and Hodges Levasseur in the A case described the spectra of all quantum function algebras on simple algebraic groups in terms of the centers of certain localizations of quotients of by torus invariant prime ideals or equivalently in terms of orbits of finite groups These centers were only known up to finite extensions The author determines the centers explicitly under the general conditions that the deformation parameter is not a root of unity and without any restriction on the characteristic of the ground field From it he deduces a more explicit description of all prime ideals of than the previously known ones and an explicit parametrization of   *Engineering Optimization* R. Russell Rhinehart,2018-03-14 An Application Oriented Introduction to Essential Optimization Concepts and Best Practices Optimization is an inherent human tendency that gained new life after the advent of calculus now as the world grows increasingly reliant on complex systems optimization has

become both more important and more challenging than ever before Engineering Optimization provides a practically focused introduction to modern engineering optimization best practices covering fundamental analytical and numerical techniques throughout each stage of the optimization process Although essential algorithms are explained in detail the focus lies more in the human function how to create an appropriate objective function choose decision variables identify and incorporate constraints define convergence and other critical issues that define the success or failure of an optimization project Examples exercises and homework throughout reinforce the author s do not study approach to learning underscoring the application oriented discussion that provides a deep generic understanding of the optimization process that can be applied to any field Providing excellent reference for students or professionals Engineering Optimization Describes and develops a variety of algorithms including gradient based such as Newton s and Levenberg Marquardt direct search such as Hooke Jeeves Leapfrogging and Particle Swarm along with surrogate functions for surface characterization Provides guidance on optimizer choice by application and explains how to determine appropriate optimizer parameter values Details current best practices for critical stages of specifying an optimization procedure including decision variables defining constraints and relationship modeling Provides access to software and Visual Basic macros for Excel on the companion website along with solutions to examples presented in the book Clear explanations explicit equation derivations and practical examples make this book ideal for use as part of a class or self study assuming a basic understanding of statistics calculus computer programming and engineering models Anyone seeking best practices for making the best choices will find value in this introductory resource

Power in Numbers Talithia Williams,2018-04-10 From rocket scientists to code breakers fascinating stories of women who overcame obstacles shattered stereotypes and pursued their passion for math Notices of the American Mathematical Society With more than 200 photos and original interviews with several of the amazing women covered Power in Numbers The Rebel Women of Mathematics is a full color volume that puts a spotlight on the influence of women on the development of mathematics over the last two millennia Each biography reveals the life of a different female mathematician from her childhood and early influences to the challenges she faced and the great achievements she made in spite of them Learn how After her father terminated her math lessons Sofia Kovalevskaya snuck algebra books into her bed to read at night Emmy Noether became an invaluable resource to Albert Einstein while she was in the Navy Native American rocket scientist Mary Golda Ross developed designs for fighter jets and missiles in a top secret unit Katherine Johnson s life or death calculations at NASA meant that astronauts such as Alan Shepard and John Glenn made it home alive Shakuntala Devi multiplied massive numbers in her head so her family could eat at night Pamela Harris proved her school counselors wrong when they told her she would only succeed as a bilinguial secretary Carla Cotwright Williams began her life in the dangerous streets of South Central Los Angeles before skyrocketing to a powerful career with the Department of Defense in Washington DC These women are a diverse group but their stories have one thing in common At some point on their journeys someone believed in

them and made them think the impossible was perhaps not so impossible A quick read full of dramatic stories and eye catching illustrations MAA Reviews I found myself marveling at the personal anecdotes and quotes throughout the book Notices of the American Mathematical Society   **Inside the Machine: Art and Invention in the Electronic Age** Megan Prelinger,2015-08-17 A visual history of the electronic age captures the collision of technology and art and our collective visions of the future A hidden history of the twentieth century s brilliant innovations as seen through art and images of electronics that fed the dreams of millions A rich historical account of electronic technology in the twentieth century Inside the Machine journeys from the very origins of electronics vacuum tubes through the invention of cathode ray tubes and transistors to the bold frontier of digital computing in the 1960s But as cultural historian Megan Prelinger explores here the history of electronics in the twentieth century is not only a history of scientific discoveries carried out in laboratories across America It is also a story shaped by a generation of artists designers and creative thinkers who gave imaginative form to the most elusive matter of all electrons and their revolutionary powers As inventors learned to channel the flow of electrons starting revolutions in automation bionics and cybernetics generations of commercial artists moved through the traditions of Futurism Bauhaus modernism and conceptual art finding ways to link art and technology as never before A visual tour of this dynamic era Inside the Machine traces advances and practical revolutions in automation bionics computer language and even cybernetics Nestled alongside are surprising glimpses into the inner workings of corporations that shaped the modern world AT T General Electric Lockheed Martin While electronics may have indelibly changed our age Inside the Machine reveals a little known explosion of creativity in the history of electronics and the minds behind it   **Environmental Challenges and Governance** Sacchidananda Mukherjee,Debashis Chakraborty,2015-03-02 The economies located in East South and Southeast Asia have witnessed an interesting growth sustainability trade off over the last decades While growth considerations have paved ways for deepened ties with growing trade investment waves and increasing population pressure necessitated exploitation of hitherto unutilized natural resources focus on environmental sustainability has been a recent consideration The growth impetus still playing a key role in these economies it becomes imperative that the countries effectively address the key sustainability concerns e g air and water pollution land degradation loss of biodiversity climate change issues like CO_2 emissions etc But how prepared is the governance mechanism of these countries covering not only the legislative and administrative framework but also involvement of the judiciary presence of spirited civil society and active engagement of stakeholders in policy framing dialogues to rise up to these challenges The book seeks an answer to this question through the environmental governance mechanism and natural resource conservation policies in three vibrant regions within Asia A holistic development dimension of sustainable development path emerges through discussion of policies adopted by developed Japan South Korea upper middle China Malaysia developing India Indonesia Philippines Sri Lanka Thailand and least developed countries Bangladesh Myanmar Nepal   *On Sudakov's Type Decomposition of Transference*

Plans with Norm Costs Stefano Bianchini,Sara Daneri,2018-02-23 The authors consider the original strategy proposed by Sudakov for solving the Monge transportation problem with norm cost with probability measures in and absolutely continuous w r t The key idea in this approach is to decompose via disintegration of measures the Kantorovich optimal transportation problem into a family of transportation problems in where are disjoint regions such that the construction of an optimal map is simpler than in the original problem and then to obtain by piecing together the maps When the norm is strictly convex the sets are a family of dimensional segments determined by the Kantorovich potential called optimal rays while the existence of the map is straightforward provided one can show that the disintegration of and thus of on such segments is absolutely continuous w r t the dimensional Hausdorff measure When the norm is not strictly convex the main problems in this kind of approach are two first to identify a suitable family of regions on which the transport problem decomposes into simpler ones and then to prove the existence of optimal maps In this paper the authors show how these difficulties can be overcome and that the original idea of Sudakov can be successfully implemented The results yield a complete characterization of the Kantorovich optimal transportation problem whose straightforward corollary is the solution of the Monge problem in each set and then in The strategy is sufficiently powerful to be applied to other optimal transportation problems *A Vector Field Method on the Distorted Fourier Side and Decay for Wave Equations with Potentials* Roland Donninger,Joachim Krieger,2016-04-26 The authors study the Cauchy problem for the one dimensional wave equation 2tu t x 2xu t x V x u t x 0 The potential V is assumed to be smooth with asymptotic behavior V x 14 x 2 as x They derive dispersive estimates energy estimates and estimates involving the scaling vector field t t x x where the latter are obtained by employing a vector field method on the distorted Fourier side In addition they prove local energy decay estimates Their results have immediate applications in the context of geometric evolution problems The theory developed in this paper is fundamental for the proof of the co dimension 1 stability of the catenoid under the vanishing mean curvature flow in Minkowski space see Donninger Krieger Szeftel and Wong Codimension one stability of the catenoid under the vanishing mean curvature flow in Minkowski space preprint arXiv 1310 5606 2013 **Practical Handbook of Multi-Tiered Systems of Support** Rachel Brown-Chidsey,Rebekah Bickford,2015-12-14 Accessible and comprehensive this book shows how to build a schoolwide multi tiered system of support MTSS from the ground up The MTSS framework encompasses tiered systems such as response to intervention RTI and positive behavioral interventions and supports PBIS and is designed to help all K 12 students succeed Every component of an MTSS is discussed effective instruction the role of school teams implementation in action assessment problem solving and data based decision making Practitioner friendly features include reflections from experienced implementers and an extended case study Reproducible checklists and forms can be downloaded and printed in a convenient 8 1 2 x 11 size **Irreducible Geometric Subgroups of Classical Algebraic Groups** Timothy C. Burness,,Soumaïa Ghandour,Donna M. Testerman,2016-01-25 Let be a simple classical

algebraic group over an algebraically closed field of characteristic with natural module Let be a closed subgroup of and let be a non trivial irreducible tensor indecomposable restricted rational module such that the restriction of to is irreducible In this paper the authors classify the triples of this form where is a disconnected maximal positive dimensional closed subgroup of preserving a natural geometric structure on <u>Cellular Automata in Image Processing and Geometry</u> Paul Rosin,Andrew Adamatzky,Xianfang Sun,2014-05-29 The book presents findings views and ideas on what exact problems of image processing pattern recognition and generation can be efficiently solved by cellular automata architectures This volume provides a convenient collection in this area in which publications are otherwise widely scattered throughout the literature The topics covered include image compression and resizing skeletonization erosion and dilation convex hull computation edge detection and segmentation forgery detection and content based retrieval and pattern generation The book advances the theory of image processing pattern recognition and generation as well as the design of efficient algorithms and hardware for parallel image processing and analysis It is aimed at computer scientists software programmers electronic engineers mathematicians and physicists and at everyone who studies or develops cellular automaton algorithms and tools for image processing and analysis or develops novel architectures and implementations of massive parallel computing devices The book will provide attractive reading for a general audience because it has do it yourself appeal all the computer experiments presented within it can be implemented with minimal knowledge of programming The simplicity yet substantial functionality of the cellular automaton approach and the transparency of the algorithms proposed makes the text ideal supplementary reading for courses on image processing parallel computing automata theory and applications *Mayor Michael Bloomberg* Lynne A. Weikart,2021-09-15 In Mayor Michael Bloomberg Lynne A Weikart dives into the mayoralty of Michael Bloomberg offering an incisive analysis of Bloomberg s policies during his 2002 2014 tenure as mayor of New York and highlighting his impact on New York City politics Michael Bloomberg became mayor of New York just four months after the 9 11 terrorist destruction of the World Trade Center and he lead the rebuilding of a physically and emotionally devastated city so well that within two years the city had budget surpluses Weikart reveals how state and federal governments constrained Bloomberg s efforts to set municipal policy and implement his strategic goals in the areas of homelessness low income housing poverty education and crime External powers of state and federal governments are strong currents and Bloomberg s navigation of these currents often determined the outcome of his efforts Weikart evaluates Michael Bloomberg s mayoral successes and failures in the face of various challenges externally the constraints of state government and mandates imposed by federal and state courts and internally the impasse between labor unions and Bloomberg Weikart identifies and explores both the self created restrictions of Mayor Bloomberg s own management style and the courage of Mike Bloomberg s leadership **The Routledge International Handbook of Research on Dialogic Education** Neil Mercer,Rupert Wegerif,Louis Major,2019-09-26 The Routledge International Handbook of Research on Dialogic Education provides a comprehensive

overview of the main ideas and themes that make up the exciting and diverse field of Dialogic Education With contributions from the world s leading researchers it describes underpinning theoretical approaches debates methodologies evidence of impact how Dialogic Education relates to different areas of the curriculum and ways in which work in this field responds to the profound educational challenges of our time The handbook is divided into seven sections covering The theory of Dialogic Education Classroom dialogue Dialogue teachers and professional development Dialogic Education for literacy and language Dialogic Education and digital technology Dialogic Education in science and mathematics Dialogic Education for transformative purposes Expertly written and researched the handbook marks the coming of age of Dialogic Education as an important and distinctive area of applied educational research Featuring chapters from authors working in different educational contexts around the world the handbook is of international relevance and provides an invaluable resource for researchers and students concerned with the study of educational dialogue and allied areas of socio cultural research It will interest students on PhD programmes in Education Faculties Master s level courses in Education and postgraduate teacher training courses The accounts of results achieved by high impact research projects around the world will also be very valuable for policy makers and practitioners   Parallel Processing and Applied Mathematics Roman Wyrzykowski,Jack Dongarra,Ewa Deelman,Konrad Karczewski,2018-03-22 The two volume set LNCS 10777 and 10778 constitutes revised selected papers from the 12th International Conference on Parallel Processing and Applied Mathematics PPAM 2017 held in Lublin Poland in September 2017 The 49 regular papers presented in this volume were selected from 98 submissions For the workshops and special sessions that were held as integral parts of the PPAM 2017 conference a total of 51 papers was accepted from 75 submissions The papers were organized in topical sections named as follows Part I numerical algorithms and parallel scientific computing particle methods in simulations task based paradigm of parallel computing GPU computing parallel non numerical algorithms performance evaluation of parallel algorithms and applications environments and frameworks for parallel distributed cloud computing applications of parallel computing soft computing with applications and special session on parallel matrix factorizations Part II workshop on models algorithms and methodologies for hybrid parallelism in new HPC systems workshop power and energy aspects of computations PEAC 2017 workshop on scheduling for parallel computing SPC 2017 workshop on language based parallel programming models WLPP 2017 workshop on PGAS programming minisymposium on HPC applications in physical sciences minisymposium on high performance computing interval methods workshop on complex collective systems   Felix Klein Renate Tobies,2021-06-23 About Felix Klein the famous Greek mathematician Constantin Carath odory once said It is only by illuminating him from all angles that one can come to understand his significance The author of this biography has done just this A detailed study of original sources has made it possible to uncover new connections to create a more precise representation of this important mathematician scientific organizer and educational reformer and to identify misconceptions Because of his edition of Julius Pl cker s work on

line geometry and due to his own contributions to non Euclidean geometry Klein was already well known abroad before he received his first full professorship at the age of 23 By exchanging ideas with his most important cooperation partner the Norwegian Sophus Lie Klein formulated his Erlangen Program Various other visionary programs followed in which Klein involved mathematicians from Germany and abroad Klein was the most active promoter of Riemann s geometric physical approach to function theory but he also integrated the analytical approaches of the Weierstrass school into his arsenal of methods Klein was a citizen of the world who repeatedly travelled to France Great Britain Italy the United States and elsewhere Despite what has often been claimed it must be emphasized that Klein expressly opposed national chauvinism He promoted mathematically gifted individuals regardless of their nationality religion or gender Many of his works have been translated into English French Italian Russian and other languages more than 300 supporters from around the world made it possible for his portrait to be painted by the prominent impressionist Max Liebermann Inspired by international developments Klein paved the way for women to work in the field of mathematics He was instrumental in reforming mathematical education and he endorsed an understanding of mathematics that affirmed its cultural importance as well as its fundamental significance to scientific and technological progress **Geometric Complexity Theory IV: Nonstandard Quantum Group for the Kronecker Problem** Jonah Blasiak,Ketan D. Mulmuley,Milind Sohoni,2015-04-09 The Kronecker coefficient is the multiplicity of the irreducible in the restriction of the irreducible via the natural map where are vector spaces and A fundamental open problem in algebraic combinatorics is to find a positive combinatorial formula for these coefficients The authors construct two quantum objects for this problem which they call the nonstandard quantum group and nonstandard Hecke algebra They show that the nonstandard quantum group has a compact real form and its representations are completely reducible that the nonstandard Hecke algebra is semisimple and that they satisfy an analog of quantum Schur Weyl duality **The Problem of College Readiness** William G. Tierney,Julia C. Duncheon,2015-03-30 Though more students are entering college many drop out especially those who are low income and or of color To address this problem educational stakeholders have focused on the concept of college readiness or the preparation a student needs to succeed in college However what it means to be college ready and how to help more students become ready are questions without clear answers By way of historical and contemporary analyses this book uses California as a case study to demonstrate how the state has endeavored to make postsecondary opportunity accessible for all students The contributors also explore the challenges that remain and address what states and schools can do to improve college readiness and completion

Adopting the Song of Expression: An Psychological Symphony within **Mathematics Pnovember 2013 Memo**

In a world consumed by monitors and the ceaseless chatter of instant connection, the melodic elegance and emotional symphony produced by the prepared word often disappear in to the backdrop, eclipsed by the relentless sound and disruptions that permeate our lives. But, situated within the pages of **Mathematics Pnovember 2013 Memo** a charming literary treasure full of raw thoughts, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, that interesting masterpiece conducts visitors on an emotional journey, skillfully unraveling the concealed tunes and profound impact resonating within each carefully constructed phrase. Within the depths with this moving assessment, we shall examine the book is key harmonies, analyze their enthralling publishing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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