

GAUTENG DEPARTMENT OF EDUCATION
PREPARATORY EXAMINATION

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MATHEMATICS
(First Paper)

MEMORANDUM

QUESTION 1 [14]

1.1 $x(x+2) = 0$
 $x = 0$ or $x = -2$

1A factorizing
2 CA for each answer

[3]

1.2 $x \leq -2$ or $x \geq 0$; with $x > 0$
 $\therefore x > 0$

2CA for each inequality
(-1) if "<" is used
1CA for selecting correct inequality
Full marks for answer only.

[3]

1.3
$$x = \frac{-(-3) \pm \sqrt{(-3)^2 - 4(2)(-7)}}{2(2)}$$

$$x = \frac{3 \pm \sqrt{65}}{4}$$

 $x = 2.77$ or $x = -1.27$

1A substitution into correct formula

$\frac{2}{3}$ if left in surd form

2CA for each correct answer

[3]

1.4 $1 + 2^{n-2} + 2^{n-1} + 2^n = 53$
 $2^n(2^{-2} + 2 + 1) = 52$
 $2^n = 16$
 $n = 4$

1A for $2^0 = 1$
1A for factorizing
1A for RHS
1CA
1CA

[5]

QUESTION 2 [10]

2.1.1 $(x+1)^2 - 4 = 16$
 $(x+1)^2 = 20$
 $x+1 = \pm\sqrt{20}$
 $x = \pm 2\sqrt{5} - 1$

OR

$(x+1)^2 - 4 = 16$
 $x^2 + 2x - 19 = 0$
$$x = \frac{-2 \pm \sqrt{(2)^2 - 4(-19)}}{2}$$

 $x = \pm 2\sqrt{5} - 1$

1A squaring both sides
1CA for isolating complete square
1M for taking square root
2CA for each answer

1A squaring both sides
1CA simplification
1CA substitution into correct formula

2CA for each answer

[5]

2.1.2 $k = 0$

1A

[1]

Maths Ptrial 2014

Babette M. Benken



Maths Ptrial 2014:

Theory and Practice of Lesson Study in Mathematics Rongjin Huang,Akihiko Takahashi,João Pedro da Ponte,2019-05-28 This book brings together and builds on the current research efforts on adaptation conceptualization and theorization of Lesson Study LS It synthesizes and illustrates major perspectives for theorizing LS and enriches the conceptualization of LS by interpreting the activity as it is used in Japan and China from historical and cultural perspectives Presenting the practices and theories of LS with practicing teachers and prospective teachers in more than 10 countries it enables the reader to take a comparative perspective Finally the book presents and discusses studies on key aspects of LS such as lesson planning post lesson discussion guiding theories connection between research and practice and upscaling Lesson Study which has originated in Asia as a powerful effective professional development model has spread globally Although the positive effects of lesson study on teacher learning student learning and curriculum reforms have been widely documented conceptualization of and research on LS have just begun to emerge This book including 38 chapters contributed by 90 scholars from 21 countries presents a truly international collaboration on research on and adaptation of LS and significantly advances the development of knowledge about this process Chapter 15 How Variance and Invariance Can Inform Teachers Enactment of Mathematics Lessons of this book is available open access under a CC BY 4 0 license at link [springer com](https://www.springer.com) Theory and Practice of Lesson Study in Mathematics An International Perspective shows that the power of Lesson Study to transform the role of teachers in classroom research cannot be explained by a simple replication model Here we see Lesson Study being successful internationally when its key principles and practices are taken seriously and are adapted to meet local issues and challenges Max Stephens Senior research fellow at TheUniversity of Melbourne It works Instruction improves learning improves Wide scale Enduring Deep impact Lesson study has it When something works as well as lesson study does while alternative systems for improving instruction fail or only succeed on small scale or evaporate as quickly as they show promise it is time to understand how and why lesson study works This volume brings the research on lesson study together from around the world Here is what we already know and here is the way forward for research and practice informed by research It is time to wake up and pay attention to what has worked so well on wide scale for so long Phil Dara A leading author of the Common Core State Standards of Mathematics in the U S **ECGBL 2021 15th**

European Conference on Game-Based Learning Panagiotis Fotaris,Cate Grundy,Marcus Winter,2021-09-23

Effective Teaching Around the World Ridwan Maulana,Michelle Helms-Lorenz,Robert M. Klassen,2023-06-27 This open access book brings together theoretical empirical methodological and practical insights from various countries on effective teaching It particularly focuses on discussing issues pertaining to effective teaching behaviour including definitions and conceptualizations measurement differences and importance to student outcomes from international perspectives The book will draw upon the rich cultures with diverse contexts involving Asia Australia Africa America and Europe which serve

as the background setting to better understand teaching quality from a wide spectrum of educational systems and performances. It shows that effective teaching behaviour can be conceptualized and operationalized uniformly using specific frameworks and measures but also addresses some limitations that should be tackled. The book discusses promising ways to measure and compare effective teaching behaviour from classical test theory (CTT) as well as item response theory (IRT) perspectives. It indicates that effective teaching behaviour in diverse countries follows a systematic level of complexity which provides an avenue for ongoing teacher education and teacher professional development. It discusses the interrelated domains of effective teaching behaviour including contemporary trends of differentiation. The book continues with examining similarities and differences in effective teaching behaviour across countries. It builds on the understanding of cultural traditions across countries as profoundly reflected in the classroom processes.

The Mathematical Resilience Book Sue Johnston-Wilder, Clare Lee, 2024-06-13. This book is about mathematical resilience: what it is, why it is important, how learners can develop it, and how teachers can teach in ways that help learners become mathematically resilient. Teaching for mathematical resilience helps mitigate mathematics anxiety, which is often hidden from view as poor behaviour, avoidance, and underachievement, and can have long-term implications, especially for people's employment opportunities and career progression. Written by a team of expert contributors that specialise in teaching every age of learner from primary school through to adult, the book shows that everyone can progress in mathematics if they have Mathematical Resilience and sets out practical strategies to support learners in developing this important attribute. Chapters cover: How to measure mathematics anxiety and resilience; Tools for building mathematical resilience; Building a resilient mathematical learning environment; The power of coaching; Working with groups, individuals, and support staff; Supporting parents and carers. The world faces huge challenges that involve mathematical thinking, including climate change and economic injustice. This valuable text shows teachers how they can help learners to engage positively with mathematical learning and reach their full potential.

Children, Adolescents, and Media Dafna Lemish, Amy Jordan, Vicky Rideout, 2018-10-11. Bringing together the leading researchers on children, adolescents, and the media, this book offers their cutting-edge big picture ideas for the future of research and scholarship in the field. Individual chapters focus on topics such as the role of big data in media research; digital literacy; parenting in the era of mobile media; media diversity in the digital age; the impact of media on child development; children's digital rights; the implications of intelligent characters and parasocial relationships; and the effectiveness of transmedia for informal education. Several chapters also explore the theoretical and methodological challenges facing children's media researchers. Offering new directions for research, the contributors consider the implications of the changing media landscape for parents, educators, advocates, and producers. Leading scholars from North America, Europe, and Asia, grounded in different theoretical and methodological traditions, join forces to discuss the impact of growing up in a media-saturated world and to stimulate thinking about the field of children and media in unexpected ways.

This book was originally published as two special issues of the Journal of Children and Media **The Cambridge Handbook of Applied School Psychology** Frank C. Worrell, Tammy L. Hughes, Dante D. Dixon, 2020-09-17 Practice books are often simple how to lists or straightforward recipes and the practitioner still does not know why the activity is related to the outcome they seek In essence they lose how the specifics of the practice are related to the theory of change or the theory of how the problem developed in the first place This leads to practitioners potentially removing crucial elements of best practice procedures when making modifications to tackle new or different problems in an unfamiliar context By understanding the theoretical underpinnings practitioners can better plan for adjustments because they know how the outcomes they seek are informed by the theory Engagingly written and perfect for day to day use this book translates state of the art research and interdisciplinary theory into practical recommendations for those working with children and adolescents

Large-Scale Studies in Mathematics Education James A. Middleton, Jinfa Cai, Stephen Hwang, 2015-05-05 In recent years funding agencies like the Institute of Educational Sciences and the National Science Foundation have increasingly emphasized large scale studies with experimental and quasi experimental designs looking for objective truths Educational researchers have recently begun to use large scale studies to understand what really works from developing interventions to validation studies of the intervention and then to efficacy studies and the final scale up for large implementation of an intervention Moreover modeling student learning developmentally taking into account cohort factors issues of socioeconomics local political context and the presence or absence of interventions requires the use of large data sets wherein these variables can be sampled adequately and inferences made Inroads in quantitative methods have been made in the psychometric and sociometric literatures but these methods are not yet common knowledge in the mathematics education community In fact currently there is no volume devoted to discussion of issues related to large scale studies and to report findings from them This volume is unique as it directly discusses methodological issue in large scale studies and reports empirical data from large scale studies **Empowering Teachers to Build a Better World** Fernando M.

Reimers, 2020-03-23 This open access book presents a comparative study on how large scale professional development programs for teachers are designed and implemented Around the world governments and educators are recognizing the need to educate students in a broad range of higher order cognitive skills and socio emotional competencies and providing effective opportunities for teachers to develop the expertise needed to teach these skills is a crucial aspect of effective implementation of curricula which include those goals This study examines how large scale efforts to empower teachers for deeper instruction have been designed how they have been implemented and their outcomes To do so it investigates six programs from England Colombia Mexico India and the United States Though all six are intended to broaden and deepen students curricular aspirations each takes this expansion of curricular goals in a different direction The ambitious education reforms studied here explicitly focus on building teachers capacity to teach on a broader set of goals Through a discerning

analysis of program documents evaluations and interviews with senior leaders and participants in the programs the book identifies the various theories of action used in these programs examines how they were implemented and discusses what they achieved As such it offers an indispensable resource for education leaders interested in designing and implementing professional development programs for teachers that are aligned with ambitious instructional goals Becoming a Reflective Mathematics Teacher Alice F. Artzt,Eleanor Armour-Thomas,Frances R. Curcio,Theresa J. Gurl,2015-06-05 Ideal for preservice mathematics teachers who are taking methods courses or are student teaching this research based activity oriented guide offers a highly effective framework for teacher reflection and self assessment Highlighting inquiry based learner centered teaching and grounded in a cognitive perspective Becoming a Reflective Teacher of Mathematics Third Edition features Detailed observation instruments for observing other teachers Reflective activities that provide a structure for beginning teachers to think about their teaching Guidelines and instruments for supervisors to use when observing conferencing with and assessing beginning or student teachers The Third Edition of Becoming a Reflective Teacher of Mathematics is aligned with the latest standards for teaching mathematics including the Common Core State Standards Mathematics and the latest assessments for mathematics teacher certification which place a high priority on reflective practice Thoroughly revised and updated throughout the Third Edition continues to provide preservice and in service mathematics teachers with practical ideas for developing and honing reflective and self analytical skills needed to advance and improve instruction Approximate Number System and Mathematics Jingguang Li,Xinlin Zhou,Marcus Lindskog,2019-11-25 Humans process quantity information without the aid of language or symbols to guide a variety of everyday life decisions The cognitive system that supports this intuitive skill is often referred to as the approximate number system ANS It has been argued that the ANS serves as the foundation of the formal symbolic number system mathematics Abundant empirical evidence is supportive of this view acuity of the ANS is positively correlated with symbolic math performance training of the ANS may cause improvements in symbolic math performance and the ANS and symbolic number processing may share a common neural underpinning However recently several theories and empirical data cast doubt on the role of the ANS in symbolic math processing This e book aims to advance our understanding of the underlying mechanisms of the overlap between the ANS and mathematics **The AMTE Handbook of Mathematics Teacher Education** Babette M. Benken,2024-02-01 This new volume of The Association of Mathematics Teacher Educators AMTE Professional Book Series is a critical and timely resource that paves the way and guides the future of mathematics teacher education The collection of work in this AMTE Handbook of Mathematics Teacher Education reflects on research and what we know about how best to prepare and support both mathematics teachers and mathematics teacher educators and presents what is happening in the field Examples included in the 22 chapters highlight how we are preparing teachers across multiple contexts e g within district in content courses for the major and grade ranges K 20 and all chapters highlight relevant connections to the AMTE

Standards for Preparing Teachers of Mathematics Most importantly this volume explores what we do not yet fully understand and where we are going In essence it considers how we can move the field forward The 95 contributing authors range from graduate students to those who have served as leaders in the field in multiple ways for many years Authors include K 12 teachers school administrators district leaders graduate students higher education faculty and professional development facilitators

Symmetry and Exact Solutions of Nonlinear Mathematical Physics Equations Gangwei Wang,Xiangpeng Xin ,Samir A. El-Tantawy,2024-08-13 Nonlinear problems originating from applied science that is closely related to practices contain rich and extensive content It makes the corresponding nonlinear models also complex and diverse Due to the intricacy and contingency of nonlinear problems unified mathematical methods still remain far and few between In this regard the comprehensive use of symmetric methods along with other mathematical methods becomes an effective option to solve nonlinear problems

The First Five Years of Teaching Mathematics (FIRSTMATH) Maria Teresa Tatto,Michael C. Rodriguez,Mark D. Reckase,Wendy M. Smith,Kiril Bankov,James Pippin,2020-04-24 This book reports on an innovative study into the first five years of mathematics teaching FIRSTMATH For the first time the study has developed a viable methodology to analyze the knowledge skills and dispositions of beginning mathematics teachers as well as instruments to explore the contexts where they work The book provides a step by step account of this exploratory proof of concept research study using a comparative and international approach and introduces readers to the challenges entailed The FIRSTMATH study promises the development of methods and strategies to make it possible for teacher educators and future teachers to examine and improve on their own practices in an important STEM area

Handbook of Social and Emotional Learning ,

Learning and Teaching Early Math Douglas H. Clements,Julie Sarama,2020-12-29 The third edition of this significant and groundbreaking book summarizes current research into how young children learn mathematics and how best to develop foundational knowledge to realize more effective teaching Using straightforward practical language early math experts Douglas Clements and Julie Sarama show how learning trajectories help teachers understand children s level of mathematical understanding and lead to better teaching By focusing on the inherent delight and curiosity behind young children s mathematical reasoning learning trajectories ultimately make teaching more joyous helping teachers understand the varying levels of knowledge exhibited by individual students it allows them to better meet the learning needs of all children This thoroughly revised and contemporary third edition of *Learning and Teaching Early Math* remains the definitive research based resource to help teachers understand the learning trajectories of early mathematics and become confident credible professionals The new edition draws on numerous new research studies offers expanded international examples and includes updated illustrations throughout This new edition is closely linked with *Learning and Teaching with Learning Trajectories* LT 2 an open access web based tool for early childhood educators to learn about how children think and learn about mathematics Head to [LearningTrajectories.org](https://learningtrajectories.org) for ongoing updates interactive games and practical tools that support

classroom learning Blending Instruction with Technology Michael Martin, 2016-07-21 Blending Instruction with Technology is a book that offers educators guidelines and solutions for implementing blended learning in today's classrooms. There has been a strong push by many communities, schools, and educators to move to a 1:1 environment. However, once there, how does one teach or facilitate learning in such an environment? What are the researched best practices for implementing blended learning in classrooms? How do schools provide professional development to teachers to implement best practices in their classroom? Regarding the twenty-year veteran who just recently mastered email, how do schools provide the proper guidance, training, and support for him/her? This book aims to answer these questions and many more. This book is designed to be a blueprint for preparing staff members to be successful in a 1:1 environment. This book also focuses on providing students with a blended learning lesson that incorporates both cognitive and 21st Century Skills.

The Oxford Handbook of Human Memory, Two Volume Pack Michael J. Kahana, Edmund J. and Louise W. Kahn. Term Professor of Psychology. Michael J. Kahana, Anthony D. Wagner, Lucie Stern Professor of Psychology. Anthony D. Wagner, 2024-04-26. The Oxford Handbook of Human Memory provides an authoritative overview of the science of human memory, its application to clinical disorders, and its broader implications for learning and memory in real-world contexts. Organized into two volumes and eleven sections, the Handbook integrates behavioral, neural, and computational evidence with current theories of how we learn and remember. Overall, The Oxford Handbook of Human Memory documents the current state of knowledge in the field and provides a roadmap for the next generation of memory scientists, established peers, and practitioners.

Understanding Complex Biological Systems with Mathematics Ami Radunskaya, Rebecca Segal, Blerta Shtylla, 2018-10-24. This volume examines a variety of biological and medical problems using mathematical models to understand complex system dynamics. Featured topics include autism spectrum disorder, ectoparasites, and allogrooming, argasid ticks, dynamics, super-fast nematocyst firing, cancer, immune population dynamics, and the spread of disease through populations. Applications are investigated with mathematical models using a variety of techniques in ordinary and partial differential equations, difference equations, Markov chain models, Monte Carlo simulations, network theory, image analysis, and immersed boundary method. Each article offers a thorough explanation of the methodologies used and numerous tables and color illustrations to explain key results. This volume is suitable for graduate students and researchers interested in current applications of mathematical models in the biosciences. The research featured in this volume began among newly formed collaborative groups at the 2017 Women Advancing Mathematical Biology Workshop that took place at the Mathematical Biosciences Institute in Columbus, Ohio. The groups spent one intensive week working at MBI and continued their collaborations after the workshop, resulting in the work presented in this volume.

Digital Skills and Life-long Learning: Digital Learning as a New Insight of Enhanced Learning by the Innovative Approach Joining Technology and Cognition Dina Di Giacomo, Pierpaolo Vittorini, Pilar Lacasa, 2019-03-01. Recently, technology and aging have been key research areas in human cognition. The

Research Topic Digital Skills and Life long Learning Digital Learning as a New Insight of Enhanced Learning by the Innovative Approach Joining Technology and Cognition investigated technology s impact on cognitive and intellectual processes highlighting how intensively technology can change and or enhance the cognitive functioning throughout one s lifespan The aim of this Research Topic was to provide an outlook through multidisciplinary research and development while addressing the dynamic intersection of cognition mind and technology Our scope was 1 to favor the cognitive technology debate 2 to overcome the dichotomies of technology and psychology 3 to emphasize the advances in knowledge and well being This Research Topic comprises review studies and original articles focused on digital skills that enhance human potential Transversal approaches and cross sectorial analysis were encouraged leading to investigation areas related to cognitive and mental processing in educational rehabilitation clinical settings across aging Articles of high relevance to the Research Topic were submitted on the subjects of a research in human performance and human factors b new research and technologies addressing the needs of a growing populace and c cognitive aging and cognitive rehabilitation research SAT Math Prep Kaplan Test Prep,2017-07-04 Kaplan s SAT Math Prep provides the realistic practice key concepts and expert advice you need to master the most important math topics on the test This focused guide includes in depth content coverage and effective score raising strategies from Kaplan s top math experts to help you face the SAT with confidence Realistic Practice Effective Strategies 16 comprehensive practice sets with detailed explanations More than 250 practice questions with expert explanations Methods and strategies to help you build speed and improve your score Techniques for tackling multiple choice grid in and extended thinking questions Review of the most important math concepts from basic algebra to advanced trig Expert Guidance 9 out of 10 Kaplan students get into one or more of their top choice college We know the test Our experts have put tens of thousands of hours into studying the SAT using real data to design the most effective strategies and study materials We invented test prep Kaplan has been helping students achieve their goals for over 80 years Learn more at kaptest com The previous edition of this book was titled Kaplan Math Workbook for the New SAT

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