

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]

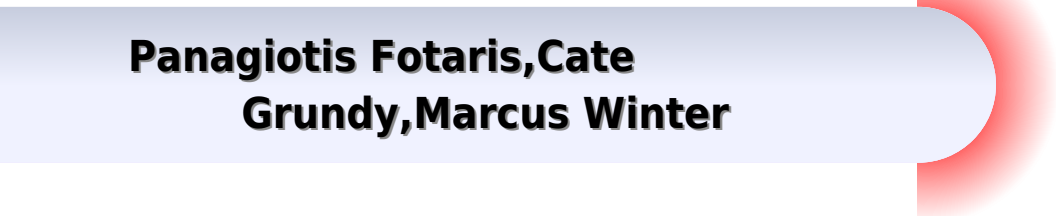
2.1.2 $k = 0$

1A

[1]

Maths Ptrial 2014

**Panagiotis Fotaris, Cate
Grundy, Marcus Winter**



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. 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

One of the lessons of this book is available open access under a CC BY 4.0 license at [link.springer.com/Theory and Practice of Lesson Study in Mathematics: An International Perspective](http://link.springer.com/Theory+and+Practice+of+Lesson+Study+in+Mathematics+An+International+Perspective). It 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 The University 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.

Mathematics Teaching and Professional Learning in sub-Saharan Africa Kakoma Luneta, 2021-12-09

The book represents a crop of wide-ranging research conducted by renowned scholars in sub-Saharan Africa revolving around mathematics teaching and professional development programs for mathematics teachers. The research-based proposals and actual how-to conduct professional development initiatives that enhance effective mathematics instruction are rooted in teacher input and informed by learners' errors and misconceptions. The book provides a comprehensive snapshot on mathematics teaching, learning, and effective professional development programmes for mathematics teachers in sub-Saharan Africa. It is the only research output that advances and disseminates issues of

mathematics education and research in the region with input from South Africa Kenya Rwanda Uganda Malawi Namibia Lesotho Ethiopia and Zimbabwe *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 **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 **ECGBL 2021 15th European Conference on Game-Based Learning** Panagiotis Fotaris, Cate Grundy, Marcus Winter, 2021-09-23 *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

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

Early

mathematics counts Yasmin A Sitabkhan,Linda Platas,2018-07-23 This occasional paper examines common instructional strategies in early grade mathematics interventions through a review of studies in classrooms in low and middle income countries Twenty four studies met the criteria for inclusion and analyses reveal four sets of instructional strategies for which there is evidence from multiple contexts Of the 24 studies 16 involved the use of multiple representations 10 involved the use of developmental progressions 6 included supporting student use of explanation and justification and 5 included integration of informal mathematics Based on the review we provide conclusions and recommendations for future research and policy

The Trials of Evidence-based Education Stephen Gorard,Beng Huat See,Nadia Siddiqui,2017-06-26 The Trials of Evidence based Education explores the promise limitations and achievements of evidence based policy and practice as the attention of funders moves from a sole focus on attainment outcomes to political concern about character building and wider educational impacts Providing a detailed look at the pros cons and areas for improvement in evidence based policy and practice this book includes consideration of the following What is involved in a robust evaluation for education The issues in conducting trials and how to assess the trustworthiness of research findings New methods for the design conduct analysis and use of evidence from trials and examining their implications What policy makers head teachers and practitioners can learn from the evidence to inform practice In this well structured and thoughtful text the results and implications of over 20 studies conducted by the authors are combined with a much larger number of studies from their systematic reviews and the implications are spelled out for the research community policy makers schools wanting to run their own evaluations and for practitioners using evidence

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