



# basic education

Department  
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REPUBLIC OF SOUTH AFRICA

## SENIOR CERTIFICATE EXAMINATIONS NATIONAL SENIOR CERTIFICATE EXAMINATIONS

### MATHEMATICS P1

2021

MARKS: 100

TIME: 1 hour

This question paper consists of 10 pages and 1 information sheet.

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### QUESTION 1

- 1.1 Solve for  $x$ :  
  - 1.1.1  $x^2 + 3x + 2 = 0$  (5)
  - 1.1.2  $3x^2 + x - 4 = 0$  (Show partial solution in TWO distinct parts) (10)
  - 1.1.3  $x^2 = 49$  (5)
- 1.2 Given  $y = \frac{3x}{x^2 + 2}$ :  
  - 1.2.1 Solve for  $x$  (5)
  - 1.2.2 Hence solve for  $x$ :  $2x^2 + 3x = 4$  (5)
- 1.3 Without using a calculator, calculate the value of  $\sqrt{\frac{36x^2 + 49}{121x^2}}$  (5)
- 1.4 Solve for  $x$  and  $y$  simultaneously:  
 $(x + y + 1)^2 = 4$  and  $\frac{1}{x} + \frac{1}{y} = 1$  (10)

### QUESTION 2

- 2.1 The first term of an arithmetic sequence is 2 and the 17th term is 38.  
 Determine:  
  - 2.1.1  $d$ , the common difference of the sequence (5)
  - 2.1.2 The number of terms in the sequence if the last term of the sequence is 47 (5)
  - 2.1.3 The sum of the first 10 terms in the sequence (5)
- 2.2  $16, 25, 36, 49, \dots$  is a quadratic number pattern.  
  - 2.2.1 Write down the 10th term of the number pattern (5)
  - 2.2.2 Determine the  $n^{\text{th}}$  term of the number pattern (5)
  - 2.2.3 Determine the maximum value of the following number pattern:  
 $-12, -\frac{11}{2}, -\frac{9}{2}, -\frac{7}{2}, \dots$  (5)

# June 2013 Mathematics Paper 1 Grade 12

**Karen Morrison, Nick Hamshaw**



## June 2013 Mathematics Paper 1 Grade 12:

**Mathematics & Mathematics Education: Searching for Common Ground** Michael N. Fried, Tommy Dreyfus, 2013-11-29 This book is the fruit of a symposium in honor of Ted Eisenberg concerning the growing divide between the mathematics community and the mathematics education community a divide that is clearly unhealthy for both The work confronts this disturbing gap by considering the nature of the relationship between mathematics education and mathematics and by examining areas of commonality as well as disagreement It seeks to provide insight into the mutual benefit both stand to gain by building bridges based on the natural bonds between them

**Cambridge IGCSE® Mathematics Core and Extended Coursebook** Karen Morrison, Nick Hamshaw, 2018-03-15 This Cambridge IGCSE Mathematics Core and Extended series has been authored to meet the requirements of the Cambridge IGCSE Mathematics syllabus 0580 0980 for first examination from 2020 This second edition of Cambridge IGCSE Mathematics Core and Extended Coursebook offers complete coverage of the Cambridge IGCSE Mathematics 0580 0980 syllabus It contains detailed explanations and clear worked examples followed by practice exercises to allow students to consolidate the required mathematical skills The coursebook offers opportunities for checking prior knowledge before starting a new chapter and testing knowledge with end of chapter and exam practice exercises Core and Extended materials are presented within the same book and are clearly signposted to allow students to see the range of mathematics required for study at this level Answers are at the back of the book

*Education, Skills, and Technical Change* Charles R. Hulten, Valerie A. Ramey, 2019-01-11 Over the past few decades US business and industry have been transformed by the advances and redundancies produced by the knowledge economy The workplace has changed and much of the work differs from that performed by previous generations Can human capital accumulation in the United States keep pace with the evolving demands placed on it and how can the workforce of tomorrow acquire the skills and competencies that are most in demand Education Skills and Technical Change explores various facets of these questions and provides an overview of educational attainment in the United States and the channels through which labor force skills and education affect GDP growth Contributors to this volume focus on a range of educational and training institutions and bring new data to bear on how we understand the role of college and vocational education and the size and nature of the skills gap This work links a range of research areas such as growth accounting skill development higher education and immigration and also examines how well students are being prepared for the current and future world of work

**The Math Teacher's Toolbox** Bobson Wong, Larisa Bukalov, 2020-04-09 Math teachers will find the classroom tested lessons and strategies in this book to be accessible and easily implemented in the classroom The Teacher's Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise guidance enables teachers to quickly integrate low prep high value lessons and strategies in their middle school and high school classrooms Every strategy follows a

practical how to format established by the series editors The Math Teacher's Toolbox contains hundreds of student friendly classroom lessons and teaching strategies Clear and concise chapters fully aligned to Common Core math standards cover the underlying research required technology practical classroom use and modification of each high value lesson and strategy This book employs a hands on approach to help educators quickly learn and apply proven methods and techniques in their mathematics courses Topics range from the planning of units lessons tests and homework to conducting formative assessments differentiating instruction motivating students dealing with math anxiety and culturally responsive teaching Easy to read content shows how and why math should be taught as a language and how to make connections across mathematical units Designed to reduce instructor preparation time and increase student engagement and comprehension this book Explains the usefulness application and potential drawbacks of each instructional strategy Provides fresh activities for all classrooms Helps math teachers work with ELLs advanced students and students with learning differences Offers real world guidance for working with parents guardians and co teachers The Math Teacher's Toolbox Hundreds of Practical ideas to Support Your Students is an invaluable source of real world lessons strategies and techniques for general education teachers and math specialists as well as resource specialists special education teachers elementary and secondary educators and teacher educators

*Cambridge IGCSE Mathematics Core and Extended Coursebook with CD-ROM* Karen Morrison, Nick Hamshaw, 2015-12-03 Revised edition of the IGCSE Mathematics Core and Extended Coursebook for the 0580 syllabus for examination from 2015

**Mathematics Education** Jacqueline Dewar, Pao-sheng Hsu, Harriet Pollatsek, 2016-11-26 Many in the mathematics community in the U S are involved in mathematics education in various capacities This book highlights the breadth of the work in K 16 mathematics education done by members of US departments of mathematical sciences It contains contributions by mathematicians and mathematics educators who do work in areas such as teacher education quantitative literacy informal education writing and communication social justice outreach and mentoring tactile learning art and mathematics ethnomathematics scholarship of teaching and learning and mathematics education research Contributors describe their work its impact and how it is perceived and valued In addition there is a chapter co authored by two mathematicians who have become administrators on the challenges of supporting evaluating and rewarding work in mathematics education in departments of mathematical sciences This book is intended to inform the readership of the breadth of the work and to encourage discussion of its value in the mathematical community The writing is expository not technical and should be accessible and informative to a diverse audience The primary readership includes all those in departments of mathematical sciences in two or four year colleges and universities and their administrators as well as graduate students Researchers in education may also find topics of interest Other potential readers include those doing work in mathematics education in schools of education and teachers of secondary or middle school mathematics as well as those involved in their professional development

**2012-2013 College Admissions Data Sourcebook Southeast**

**Edition ,     **The Encyclopedia of Middle Grades Education (2nd ed.)**** Steven B. Mertens,Micki M. Caskey,Nancy Flowers,2016-08-01 The second edition of The Encyclopedia of Middle Grades Education has been revised updated and expanded since its original publication in 2005 The Encyclopedia is a comprehensive overview of the field it contains alphabetically organized entries that address important concepts ideas terms people organizations publications and research studies specifically related to middle grades education This edition contains over 210 entries from nearly 160 expert contributors this is a 25% increase in the number of entries over the first edition The Encyclopedia is aimed at a general audience including undergraduate students in middle level teacher preparation programs graduate students higher education faculty and practitioners and administrators The comprehensive list of entries are comprised of both short entries 500 words and longer entries 2000 words A significant number of entries appearing in the first edition have been revised and updated Citations and references are provided for each entry     Exploring the Mathematical Education of Teachers Using TEDS-M Data Maria Teresa Tatto,Michael C. Rodriguez,Wendy M. Smith,Mark D. Reckase,Kiril Bankov,2018-08-16 This book uses the publicly available TEDS M data to answer such questions as How does teacher education contribute to the learning outcomes of future teachers Are there programs that are more successful than others in helping teachers learn to teach mathematics How does the local and national policy environment contribute to teacher education outcomes It invites readers to explore these questions across a large number of international settings The importance of preparing future mathematics teachers has become a priority across many nations Across the globe nations have allocated resources and expertise to this endeavour Yet in spite of the importance accorded to teacher education not much is known about different approaches to preparing knowledgeable teachers and whether these approaches do in fact achieve their purpose The Mathematics Teacher Education and Development Study TEDS M is the first and to date the only cross national study using scientific and representative samples to provide empirical data on the knowledge that future mathematics teachers of primary and secondary school acquire in their teacher education programs The study addresses the central importance of teacher knowledge in learning to teach mathematics by examining variation in the nature and influence of teacher education programs within and across countries The study collected data on teacher education programs structure curriculum and opportunities to learn on teacher educators characteristics and beliefs and on future mathematics teachers individual characteristics beliefs and mathematics and pedagogical knowledge across 17 countries providing a unique opportunity to explore enduring questions in the field     *Bringing the Common Core Math Standards to Life* Yvelyne Germain-McCarthy,Ivan Gill,2014-11-20 As high school math teachers shift to the Common Core State Standards the question remains What do the standards actually look like in the classroom This book answers that question by taking you inside of real Common Core classrooms across the country You ll see how exemplary teachers are meeting the new requirements and engaging students in math Through these detailed examples of effective instruction you will uncover how

to bring the standards to life in your own classroom

**Special Features**

- A clear explanation of the big shifts happening in the classroom as a result of the Common Core State Standards
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- A detailed analysis of each example to help you understand why it is effective and how you can try it with your own students
- Practical ready to use tools you can take back to your classroom including unit plans and classroom handouts

*The SAGE Guide to Educational Leadership and Management* Fenwick W. English, 2015-01-29

The SAGE Guide to Educational Leadership and Management allows readers to gain knowledge of educational management in practice while providing insights into challenges facing educational leaders and the strategies skills and techniques needed to enhance administrative performance This guide emphasizes the important skills that effective leaders must develop and refine including communication developing teams coaching and motivating and managing time and priorities While being brief simply written and a highly practical overview for individuals who are new to this field this reference guide will combine practice and research indicate current issues and directions and choices that need to be made

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- Chapters conclude with bibliographic endnotes and references to further readings to guide students to more in depth presentations in other published sources
- Back matter includes an annotated listing of organizations associations and journals focused on educational leadership and administration and a detailed index

This reference guide will serve as a vital source of knowledge to any students pursuing an education degree as well as for individuals interested in the subject matter that do not have a strong foundation of the topic

**Nutrition Education in the K-12 Curriculum** Institute of Medicine, Board on Children, Youth, and Families, Food and Nutrition Board, 2013-09-21

The childhood obesity epidemic and related health consequences are urgent public health problems Approximately one third of America's young people are overweight or obese Health problems once seen overwhelmingly in adults such as type 2 diabetes cardiovascular disease and hypertension are increasingly appearing in youth Though the health of Americans has improved in many broad areas for decades increases in obesity could erode these and future improvements The IOM report *Accelerating Progress in Obesity Prevention Solving the Weight of the Nation* recognized the importance of the school environment in addressing the epidemic and recommended making schools a focal point for obesity prevention The development and implementation of K 12 nutrition benchmarks guides or standards for a discussion of these terms see the next section of this chapter would constitute a critical step in achieving this recommendation

National nutrition education curriculum standards could have a variety of benefits including the following

- Improving the consistency and effectiveness of nutrition education in schools
- Preparing and training teachers and other education staff to help them provide effective nutrition education
- Assisting colleges and

universities in the development of courses in nutrition as part of teacher certification and in updating methods courses on how to integrate nutrition education in subject matter areas in the classroom and in materials and Establishing a framework for future collaborative efforts and partnerships to improve nutrition education Nutrition Education in the K 12 Curriculum The Role of National Standards is a summary of the workshop s presentations and discussions prepared from the workshop transcript and slides This summary presents recommendations made by individual speakers **Diversity, Equity, and**

**Inclusion for Mathematics and Science Education: Cases and Perspectives** Lin, Cheng-Yao,Sun, Li,2025-06-04

Diversity equity and inclusion DEI are critical pillars for transforming mathematics and science education As classrooms diversify the need to address systemic barriers and create inclusive learning environments becomes more urgent Cases on DEI in STEM education highlight the real world challenges and strategies educators face in promoting equitable access to learning opportunities dismantling biases and empowering students from historically marginalized communities Further exploration may reveal powerful teaching tools and catalyze reflective practice and institutional change encouraging educators to critically examine their roles in shaping a more inclusive future in math and science Cases on Diversity Equity and Inclusion for Mathematics and Science Education explores key issues and concepts related to diversity equity and inclusion in mathematics and science classrooms It offers solutions and successful strategies for teaching and learning in mathematics and science This book covers topics such as inclusive classrooms K 12 education pre service teaching and is a useful resource for educators sociologists academicians researchers and scientists Federal Register ,2013-06

**Teaching and Learning Secondary School Mathematics** Ann Kajander,Jennifer Holm,Egan J Chernoff,2018-10-24

This volume brings together recent research and commentary in secondary school mathematics from a breadth of contemporary Canadian and International researchers and educators It is both representative of mathematics education generally as well as unique to the particular geography and culture of Canada The chapters address topics of broad applicability such as technology in learning mathematics recent interest in social justice contexts in the learning of mathematics as well as Indigenous education The voices of classroom practitioners the group ultimately responsible for implementing this new vision of mathematics teaching and learning are not forgotten Each section includes a chapter written by a classroom teacher making this volume unique in its approach We have much to learn from one another and this volume takes the stance that the development of a united vision supported by both research and professional dialog provides the first step Mathematics Strategies for Tier 1 and Tier 2 Interventions in a PLC at Work® Sarah Schuhl,Mona Toncheff,Jennifer

Deinhart,Brian Buckhalter,2024-12-02 Discover how your collaborative team can ensure all students learn grade level mathematics during Tier 1 and Tier 2 instruction This valuable guide provides preK 12 teachers with ready to use tools and strategies to help students communicate using mathematical language and develop number sense conceptual understanding procedural fluency mathematical reasoning problem solving and more PreK 12 educators can use this book to Collaborate

with teams to build a shared understanding of essential mathematics standards Ensure students learn grade level mathematics during Tier 1 and Tier 2 instruction Learn how to help students make connections to prior learning and why that matters Create opportunities for students to reason through problems with their peers Develop students number sense procedural fluency and other key mathematics skills Contents Introduction Part 1 A Culture of Learning Chapter 1 Work as a Collaborative Mathematics Team Focused on Student Learning Chapter 2 Build a Community of Learners Part 2 Mathematics Foundations Chapter 3 Teach Grade or Course Level Content Chapter 4 Connect to Prior Knowledge Chapter 5 Develop Number Sense Chapter 6 Focus on Problem Solving Chapter 7 Develop Procedural Fluency Part 3 Student Engagement Chapter 8 Communicate Using Mathematical Language Chapter 9 Grow Learning Through Student Discourse Chapter 10 Use Meaningful Feedback for Learning Chapter 11 Empower Learners Through Student Investment Epilogue Appendix A Data Analysis Protocols Appendix B Cognitive Demand Level Task Analysis Guide References and Resources Index **What**

**Lies Ahead for America's Children and Their Schools** Richard Sousa, 2014-03-01 The coming decade holds immense potential for dramatic improvement in U S education and in the achievement of American children and in this volume members of the Hoover Institution s Koret Task Force on K 12 Education examine both the potential gains and the pitfalls that lie ahead informed by where U S education has been what changes have been made in recent years and what s still required for the comprehensive overhaul that this vital enterprise so urgently needs Looking backward is infinitely easier than predicting the future but planning for the future is necessary if anything is to change and by analyzing the recent past and present condition of American primary and secondary school education across a host of key topics task force members in this volume chart a bold course for the years ahead Optimistic about the opportunities at hand they identify essential and feasible reforms as well as the barriers that must be overcome if those changes are to occur They offer high quality scholarship and thoughtful prescriptions for productive policy alternatives *The Complete Book of Colleges, 2013 Edition* Princeton Review, 2012-08-07 Profiles every four year college in the United States providing detailed information on academic programs admissions requirements financial aid services housing athletics contact names and campus life

**Science Education Research and Practices in Taiwan** Mei-Hung Chiu, 2015-08-04 This book highlights the development and outcomes of research on and practical experience in science education in Taiwan As the outcomes of the scholarship on science education in Taiwan have garnered attention in science education communities around the world this book gathers the most relevant research on Taiwan presenting it in a cohesive overview that will move science education forward in terms of policy research and practice [Asian Research in Mathematics Education](#) Bill Atweh, Lianghuo Fan, Catherine P. Vistro-Yu, 2023-05-17 This book focuses on the development of research in mathematics education cultures and its products from the perspective of local educators It consists of contributions from Mainland China Indonesia Korea Macao Singapore the Philippines and Turkey This book examines the development of the culture of research in the respective



countries and also reviews the research conducted in the recent past in mathematics education. It takes a critical stance through identifying the various accomplishments and identifying challenges for the future of research in terms of its diversification and quality. Divided into two sections, the first section considers factors around the development of a research culture in the respective countries by focusing on the means used to develop research expertise and quality. The second section consists of overviews of the area of research and methodologies conducted in mathematics education in the various countries with the intention of highlighting the research topics conducted as well as discussing omissions of such research.

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