

Sing Yin Secondary School
First Term Examination, 2013 – 2014
Mathematics I

Form 3
Full marks: 100

Time allowed: 1.5 hours

- Answer ALL questions.
- Unless otherwise specified, all working must be clearly shown.
- The diagrams in this paper are not necessarily drawn to scale.
- Unless otherwise specified, numerical answers should either be exact or correct to 3 significant figures.

1. Convert 2 846 into a hexadecimal number. Show your steps. (3 marks)

2. Rationalize $\frac{2}{\sqrt{3}-1}$. (3 marks)

3. Simplify $\frac{\sqrt[3]{xy^2}}{xy^{-3}}$ and express the answer with positive indices. (4 marks)

4. Simplify $\sqrt{15}(\sqrt{12} + \sqrt{3})$. (4 marks)

5. Express $1.08\bar{3}$ in the form of $\frac{a}{b}$ where a and b are positive integers. (4 marks)

6. Simplify $\frac{5 \times 10^{80}}{2.54 \times 10^{-2014} - 1.35 \times 10^{-2012}}$ and express the answer in scientific notation. (5 marks)

7. The mode and the median of five integers a , b , c , d and e are 4 and 7 respectively, where $a \leq b \leq c \leq d \leq e$.

(a) Write down the values of a , b and c .

(b) Given that the mean of a , b , c , d and e is 6.6. Find the values of d and e .

(6 marks)

8. In the figure, $PQRS$ is a parallelogram and QT is the angle bisector of $\angle PQR$. QTU and USR are straight lines. $\angle TUS = 55^\circ$. Find $\angle UTS$.

(4 marks)



9. S3X Class was asked how many times they visited the museum last year. The mean of the number of visits is 2.6 and the results are shown in the table below:

Number of visits	1	2	3	4
Number of people	7	10	8	n

(a) Find n .

(b) Write down the median number of visits.

(c) Write down the mode(s) number of visits.

(d) If another class S3Y of 40 students was asked the same question and the overall mean number of visits for two classes was 2.48, find the mean number of visits for S3Y.

(6 marks)

10. Solve $\frac{x+5}{3} > 1-2x$ or $-x-1 \leq 0$ and represent the solution graphically. (6 marks)

11. Solve $5^x + 5^{x+1} = 750$. (4 marks)

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Robert R. Redfield



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Open Problems in Mathematics and Computational Science Çetin Kaya Koç, 2015-03-25 This book presents interesting important unsolved problems in the mathematical and computational sciences The contributing authors are leading researchers in their fields and they explain outstanding challenges in their domains first by offering basic definitions explaining the context and summarizing related algorithms theorems and proofs and then by suggesting creative solutions The authors feel a strong motivation to excite deep research and discussion in the mathematical and computational sciences community and the book will be of value to postgraduate students and researchers in the areas of theoretical computer science discrete mathematics engineering and cryptology

Sands of Time Faysal Bibi, Brian Kraatz, Mark J. Beech, Andrew Hill, 2022-06-07 This monograph presents the results of over 10 years of paleontological and geological survey in the Baynunah Formation of the United Arab Emirates Exposed widely in western Abu Dhabi Emirate the Baynunah Formation and its fossils provide the only record of terrestrial environments and evolution in the Arabian Peninsula during the late Miocene epoch 12.5 Ma This volume describes new fossils collected since 2002 presented systematically by taxon and including mammals reptiles and invertebrates as well as fossil trackways The discoveries are framed within the results of new geological geochemical and geochronological analyses providing an updated and synthetic view of the age environments and biogeographic relationships of this important fossil assemblage

Operations Research Proceedings 2024 Lukas Glomb, 2025-09-12 This book contains a selection of peer reviewed papers presented at the International Conference on Operations Research OR 2024 held at the Technical University of Munich Germany from September 3 to 6 2024 Over 650 scientists from all over the world attended the OR 2024 in Munich Three plenaries and nine semi plenaries covered theoretical aspects of Operations Research applications and real world practices In addition more than 500 presentations were held over three days in up to 23 parallel sessions Covering a wide range of topics the book highlights cutting edge research and practical applications across various domains of modern operations research It places a special emphasis on the theme Data Learning and Optimization exploring how data driven approaches machine learning techniques and optimization strategies are shaping decision making processes and operational efficiency The contributions in this book reflect the diversity and innovation in the field making it a valuable resource for researchers practitioners and academics alike

Education Policy in England 2010-2024 Rebecca Morris, Thomas Perry, 2025-08-28 This text presents an informative overview of Conservative led education policy over the last 14 years The book provides a broad and detailed picture of the developing education landscape in England during this period highlighting the transformational and sometimes radical reforms that the country has seen Crucially the book draws together contributions from over 40 esteemed education

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Mothering from the Field Bahiyyah M. Muhammad, Melanie-Angela Neuilly, 2019-06-14 *Mothering from the Field* offers both a mosaic of perspectives from real women scientists experiences of conducting field research while raising children and an analytical framework to understand how we can redefine methodological and theoretical contributions based on mothers experiences in order to revolutionize how we conceptualize research

Technology Enhanced Assessment Silvester Draaijer, Desirée Joosten-ten Brinke, Eric Ras, 2019-07-12 This book constitutes the proceedings of the 21st International Conference on Technology Enhanced Assessment TEA 2018 held in Amsterdam The Netherlands in December 2018 The 14 papers presented were carefully selected from 34 submissions They are centered around topics like e learning computer assisted instruction interactive learning environments collaborative learning computing education student assessment

Emerging Technologies for STEAM Education Xun Ge, Dirk Ifenthaler, J. Michael Spector, 2015-09-09 This theory to practice guide offers leading edge ideas for wide scale curriculum reform in sciences technology engineering the arts and mathematics the STEAM subjects Chapters emphasize the critical importance of current and emerging digital technologies in bringing STEM education up to speed and implementing changes to curricula at the classroom level Of particular interest are the diverse ways of integrating the liberal arts into STEM course content in mutually reshaping humanities education and scientific education This framework and its many instructive examples are geared to ensure that both educators and students can become innovative thinkers and effective problem solvers in a knowledge based society Included in the coverage Reconceptualizing a college science learning experience in the new digital era Using mobile devices to support formal informal and semi formal learning Change of attitudes self concept and team dynamics in engineering education The language arts as foundational for science technology engineering art and mathematics Can K 12 math teachers train students to make valid logical reasoning Moving forward with STEAM education research

Emerging Technologies for STEAM Education equips educators education researchers administrators and education policymakers with curricular and pedagogical strategies for making STEAM education the bedrock of accessible relevant learning in keeping with today s digital advances

Quantum Economics David Orrell, 2018-07-05 A decade after the financial crisis there is a growing consensus that economics has failed and needs to go back to the drawing board David Orrell argues that it has been trying to solve the wrong problem all along Economics sees itself as the science of scarcity

Instead it should be the science of money which plays a surprisingly small role in mainstream theory And money is a substance that turns out to have a quantum nature of its own Just as physicists learn about matter by studying the exchange of particles at the subatomic level so economics should begin by analysing the nature of money based transactions Quantum Economics therefore starts with the meaning of the phrase how much or to use the Latin word quantum From quantum physics to the dualistic properties of money via the emerging areas of quantum finance and quantum cognition this profoundly important book reveals that quantum economics is to neoclassical economics what quantum physics is to classical physics a genuine turning point in our understanding *Executive Function and Education* Mariëtte Huizinga,Dieter Baeyens,Jacob A. Burack,2018-09-21 Executive function is an umbrella term for various cognitive processes that are central to goal directed behavior thoughts and emotions These processes are especially important in novel or demanding situations which require a rapid and flexible adjustment of behavior to the changing demands of the environment The development of executive function relies on the maturation of associated brain regions as well as on stimulation in the child s social contexts especially the home and school Over the past decade the term executive function has become a buzzword in the field of education as both researchers and educators underscore the importance of skills like goal setting planning and organizing in academic success Accordingly in initiating this Research Topic and eBook our goal was to provide a forum for state of the art theoretical and empirical work on this that both facilitates communication among researchers from diverse fields and provides a theoretically sound source of information for educators The contributors to this volume who hail from several different countries in Europe and North America have certainly accomplished this goal in their nuanced and cutting edge depictions of the complex links among various executive function components and educational success

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