

Subject - Math AA(Standard Level)
Topic - Number and Algebra
Year - May 2021 - Nov 2022
Paper -2
Questions

Question 1

[Maximum mark: 6]

On 1st January 2020, Laurie invests \$ P in an account that pays a nominal annual interest rate of 5.5%, compounded quarterly.

The amount of money in Laurie's account at the end of each year follows a geometric sequence with common ratio, r .

- (a) Find the value of r , giving your answer to four significant figures. [3]

Laurie makes no further deposits to or withdrawals from the account.

- (b) Find the year in which the amount of money in Laurie's account will become double the amount she invested. [3]

Question 2

[Maximum mark: 6]

A metal sphere has a radius 12.7 cm.

- (a) Find the volume of the sphere expressing your answer in the form $a \times 10^k$, $1 < a < 10$ and $k \in \mathbb{Z}$. [3]

The sphere is to be melted down and remoulded into the shape of a cone with a height of 14.8 cm.

- (b) Find the radius of the base of the cone, correct to 2 significant figures. [3]

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Hill M. Walker, Frank M. Gresham



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Cambridge International AS and A Level Mathematics: Probability & Statistics 2 Coursebook Jayne Kranat,2018-03-15 This series has been developed specifically for the Cambridge International AS A Level Mathematics 9709 syllabus to be examined from 2020 Cambridge International AS A Level Mathematics Probability Statistics 2 matches the corresponding unit of the syllabus with a clear and logical progression through It contains materials on topics such as hypothesis testing Poisson distribution linear combinations and continuous random variables and sampling This coursebook contains a variety of features including recap sections for students to check their prior knowledge detailed explanations and worked examples end of chapter and cross topic review exercises and Explore tasks to encourage deeper thinking around mathematical concepts Answers to coursebook questions are at the back of the book

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Language Planning for Medium of Instruction in Asia M. Hamid, Hoa Nguyen, Richard Baldauf, 2015-10-16 This volume investigates the policy and practice of medium of instruction at different levels of education in Asian polities including Bangladesh Hong Kong India Indonesia Japan Malaysia the Maldives Nepal Timor Leste and Vietnam The chapters provide an informed understanding of the context process actors goals and outcomes of medium of instruction policies from a language policy and planning perspective The volume has an emphasis on the exploration of medium of instruction in action which brings into focus the perspectives of micro policy enactors including teachers students and parents in the local context generating crucial empirical insights This critical analysis of the goals outcomes and experiences of this trend in global language in education will be of interest to language and education students researchers practicing teachers executives in academia and language studies and to education policymaking authorities in Asia and other parts of the world The volume updates existing research on medium of instruction and takes the field forward in a fast changing world as English medium instruction policies are globalised This book was originally published as a special issue of Current Issues in Language Planning

Concepts of Proof in Mathematics, Philosophy, and Computer Science Dieter Probst, Peter Schuster, 2016-07-25 A proof is a successful demonstration that a conclusion necessarily follows by logical reasoning from axioms which are considered evident for the given context and agreed upon by the community It is this concept that sets mathematics apart from other disciplines and distinguishes it as the prototype of a deductive science Proofs thus are utterly relevant for research teaching and communication in mathematics and of particular interest for the philosophy of mathematics In computer science moreover proofs have proved to be a rich source for already certified algorithms This book provides the reader with a collection of articles covering relevant current research topics circled around the concept proof It tries to give due consideration to the depth and breadth of the subject by discussing its philosophical and methodological aspects addressing foundational issues induced by Hilbert s Programme and the benefits of

the arising formal notions of proof without neglecting reasoning in natural language proofs and applications in computer science such as program extraction

Central European Functional Programming School Viktória Zsók,Zoltán Horváth,Lehel Csató,2015-03-20 This volume presents the revised lecture notes of selected talks given at the Fifth Central European Functional Programming School CEFPS 2013 held in July 2013 in Cluj Napoca Romania The 14 revised full papers presented were carefully reviewed and selected The lectures cover a wide range of distributed and multicore functional programming subjects The last 5 papers are selected papers of the PhD Workshop organized for the participants of the summer school

Vehicle, Mechatronics and Information Technologies X.D. Yu,2013-08-30 Selected peer reviewed papers from the 2013 International Conference on Vehicle Mechanical Engineering and Information Technology VMEIT 2013 August 17 18 2013 Zhengzhou Henan China

Topics and Trends in Current Statistics Education Research Gail Burrill,Dani Ben-Zvi,2018-12-29 This book focuses on international research in statistics education providing a solid understanding of the challenges in learning statistics It presents the teaching and learning of statistics in various contexts including designed settings for young children students in formal schooling tertiary level students and teacher professional development The book describes research on what to teach and platforms for delivering content curriculum strategies on how to teach for deep understanding and includes several chapters on developing conceptual understanding pedagogy and technology teacher knowledge and beliefs and the challenges teachers and students face when they solve statistical problems reasoning and thinking This new research in the field offers critical insights for college instructors classroom teachers curriculum designers researchers in mathematics and statistics education as well as policy makers and newcomers to the field of statistics education Statistics has become one of the key areas of study in the modern world of information and big data The dramatic increase in demand for learning statistics in all disciplines is accompanied by tremendous growth in research in statistics education Increasingly countries are teaching more quantitative reasoning and statistics at lower and lower grade levels within mathematics science and across many content areas Research has revealed the many challenges in helping learners develop statistical literacy reasoning and thinking and new curricula and technology tools show promise in facilitating the achievement of these desired outcomes

Historiography of Mathematics in the 19th and 20th Centuries Volker R. Remmert,Martina R. Schneider,Henrik Kragh Sørensen,2016-12-08 This book addresses the historiography of mathematics as it was practiced during the 19th and 20th centuries by paying special attention to the cultural contexts in which the history of mathematics was written In the 19th century the history of mathematics was recorded by a diverse range of people trained in various fields and driven by different motivations and aims These backgrounds often shaped not only their writing on the history of mathematics but in some instances were also influential in their subsequent reception During the period from roughly 1880 1940 mathematics modernized in important ways with regard to its content its conditions for cultivation and its identity and the writing of the history of mathematics played into

the last part in particular Parallel to the modernization of mathematics the history of mathematics gradually evolved into a field of research with its own journals societies and academic positions Reflecting both a new professional identity and changes in its primary audience various shifts of perspective in the way the history of mathematics was and is written can still be observed to this day Initially concentrating on major internal universal developments in certain sub disciplines of mathematics the field gradually gravitated towards a focus on contexts of knowledge production involving individuals local practices problems communities and networks The goal of this book is to link these disciplinary and methodological changes in the history of mathematics to the broader cultural contexts of its practitioners namely the historians of mathematics during the period in question

Educational Policy Borrowing in China Charlene Tan,2016-02-22 For over a decade Mainland China has been embarking on an ambitious nation wide education reform New Curriculum Reform for its basic education The reform reflects China s propensity to borrow selected educational policies from elsewhere particularly North America and Europe Chinese scholars have used a local proverb the West wind has overpowered the East wind to describe this phenomenon of looking West But what do we mean by educational policy borrowing from the West What are the educational policies in China s new curriculum reform that are perceived to be borrowed from the West To what extent have the borrowed educational policies in China s new curriculum reform been accepted modified and rejected by the various educational stakeholders How does culture influence the various educational stakeholders in China in interpreting and mediating educational policy borrowing from the West How do the findings of this study on China s education reform inform and add to the existing theories on and approaches to on cross cultural educational policy borrowing This book answers the above questions by critically discussing China s policy borrowing from the West through its current reform for primary and secondary education It presents the latest in depth research findings from a three year empirical study 2013 2015 with school principals teachers students and other educational stakeholders across China This study offers new insights into China s educational policy borrowing from the West and international implications on cross cultural educational transfer for academics policymakers and educators

Handbook of Evidence-Based Practices for Emotional and Behavioral Disorders Hill M. Walker, Frank M. Gresham,2013-09-13 This handbook is designed for use by practicing professionals who are charged with accommodating the needs of students having emotional and behavioral disorders and problems within the context of schooling This handbook consists of 32 chapters and is divided into six sections 1 foundations 2 screening performance monitoring and assessment 3 interventions targeting specific disorders settings and or developmental levels 4 generic intervention approaches 5 early intervention and 6 research The editors view the book as a compendium of accessible best practices that if practitioners adopt and apply with high levels of treatment integrity will produce a strong impact on the emotional and behavioral problems that challenge the school success of EBD students

Quantitative Psychology L. Andries van der Ark, Marie Wiberg, Steven A. Culpepper, Jeffrey A. Douglas, Wen-Chung Wang,2017-06-06 This proceedings

volume compiles and expands on selected and peer reviewed presentations given at the 81st Annual Meeting of the Psychometric Society IMPS organized by the University of North Carolina at Greensboro and held in Asheville North Carolina July 11th to 17th 2016 IMPS is one of the largest international meetings focusing on quantitative measurement in psychology education and the social sciences both in terms of participants and number of presentations The meeting built on the Psychometric Society's mission to share quantitative methods relevant to psychology addressing a diverse set of psychometric topics including item response theory factor analysis structural equation modeling time series analysis mediation analysis cognitive diagnostic models and multi level models Selected presenters were invited to revise and expand their contributions and to have them peer reviewed and published in this proceedings volume Previous volumes to showcase work from the Psychometric Society's meetings are New Developments in Quantitative Psychology Presentations from the 77th Annual Psychometric Society Meeting Springer 2013 Quantitative Psychology Research The 78th Annual Meeting of the Psychometric Society Springer 2015 Quantitative Psychology Research The 79th Annual Meeting of the Psychometric Society Madison Wisconsin 2014 Springer 2015 and Quantitative Psychology Research The 80th Annual Meeting of the Psychometric Society Beijing 2015 Springer 2016

Neutrosophic soft set Pabitra Kumar Maji, In this paper we study the concept of neutrosophic set of Smarandache We have introduced this concept in soft sets and defined neutrosophic soft set Some definitions and operations have been introduced on neutrosophic soft set Some properties of this concept have been established

The Intersection of International Achievement Testing and Educational Policy Louis Volante, 2016-06-10 Educational systems around the world look to student assessment programs as they initiate reforms and revise educational policies to increase student achievement This edited volume examines the intersection of international achievement testing and education policy development in key countries around the world exploring how assessments can inform curriculum pedagogy strategic planning and ultimately determine large scale education policy and governance Noted chapter contributors explore how educational leadership and governance issues have been influenced by assessment programs across a range of political economic cultural and educational contexts The Intersection of International Achievement Testing and Education Policy provides educators academics and policymakers with cultural insights historical contexts and a framework for negotiating and understanding the consequences of educational policy decisions in schools

Journal of Research on Organization in Education Curt M. Adams, Timothy G. Ford, Angela M. Urick, 2017-08-01 The JROE represents a new forum for advancing integrating and challenging the theory and body of evidence surrounding the organization of education Committed to scientific empiricism this journal's editors and editorial board seek to coalesce and vitalize decades of theoretical work and research that holds promise for our understanding and improvement of organizations especially but not only schools The development and testing of a body of middle range theory is facilitated by the availability of longitudinal and hierarchical analytical techniques model building and experimental simulation research approaches all potentially signaling a new era of

theoretical possibility Increasingly a new generation of researchers studying education organization is prepared to exploit the power of these tools JROE can serve as scaffold for holding more precise empirical evidence and orienting it toward theorybuilding

ECRM2016-Proceedings of the 15th European Conference on Research Methodology for Business Management " Vladlena Benson,Fragkiskos Filippaios,2016-05-20 12 YEAR-WISE CTET Paper 2

(Mathematics & Science) Solved Papers (2011 - 2019) - 2nd English Edition Disha Experts,2019-09-06 **Biased**

Cognitions & Social Anxiety: Building a Global Framework for Integrating Cognitive, Behavioral, and Neural Processes Alexandre Heeren,Wolf-Gero Lange,Quincy Wong,Pierre Philippot,2015-03-05 Social anxiety SA is a common and incapacitating disorder that has been associated with seriously impaired career academic and general social functioning Regarding epidemiological data SA has a lifetime prevalence of 12 1% and is the fourth most common psychopathological disorder Kessler et al 2005 At a fundamental point of view the most prominent cognitive models of SA posit that biased cognitions contribute to the development and maintenance of the disorder e g Clark Rapee Heimberg 1997 Over the last decades a large body of research has provided evidence that individuals suffering from SA exhibit such biased cognitions at the level of visual attention memory of social encounters interpretation of social events and in judgment of social cues Such biased cognitions in SA has been studied in different ways within cognitive psychology behavioral psychology clinical psychology and cognitive neuroscience over the last few decades yet integrative approaches for channeling all information into a unified account of biased cognitions in SA has not been presented so far The present Research Topic aims to bring together theses different ways and to highlight findings and methods which can unify research across these areas In particular this Research Topic aims to advance the current theoretical models of SA and set the stage for future developments of the field by clarifying and linking theoretical concepts across disciplines

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