

~~Republic of Zimbabwe~~ High Sch (4) 22

**ZIMBABWE SCHOOL EXAMINATIONS COUNCIL**  
General Certificate of Education Advanced Level

**MATHEMATICS**  
PAPER 1

**9164/1**

Monday 3 NOVEMBER 2003

Afternoon

3 hours

Additional materials:  
Answer paper  
Graph paper  
List of Formulae

**TIME** 3 hours

**INSTRUCTIONS TO CANDIDATES**

Write your name, Centre number and candidate number in the spaces provided on the answer paper/answer booklet.

There is no restriction on the number of questions which you may attempt.

If a numerical answer cannot be given exactly, and the accuracy required is not specified in the question, then in the case of an angle it should be given to the nearest degree, and in other cases it should be given correct to 2 significant figures.

**INFORMATION FOR CANDIDATES**

The number of marks is given in brackets [ ] at the end of each question or part question.

The total number of marks for this paper is 420.

Questions are printed in the order of their mark allocations and candidates are advised to attempt questions sequentially.

The use of an electronic calculator is expected, where appropriate.

You are reminded of the need for clear presentation in your answers.

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# Maths Zimsec Paper Nov 2003

**Jicheng Xie**



## **Maths Zimsec Paper Nov 2003:**

**British Education Index**, 2005      Some Developments in Research in Science and Mathematics in Sub-Saharan Africa  
Lorna Holtman, 2008 Much attention in late developing countries is given to providing access to studies which allow school leavers to enter science and technology related careers These programmes are driven by the belief that graduates will then substantially contribute to the developmental needs of their countries But is providing access to institutions enough Students in developing countries often come from school environments lacking in resources human physical and financial This book in a number of chapters reviews research related to the crucial dimension of epistemological access to the disciplines of import which students need as much as institutional access in order to improve their chances of success A significant feature of this collection s research studies is that their empirical bases are highly localised covering areas such as research methods access curriculum instruction and assessment and the relevance of science and mathematics education in Zimbabwe Uganda Swaziland South Africa Namibia Malawi Ghana and Lesotho This volume provides invaluable insights and will be of relevance to researchers policy makers and lecturers interested in these research outcomes in Sub Saharan Africa It is the outcome of a doctoral research capacity development project the Graduate Studies in Science Mathematics and Technology Education GRASSMATE      **Index Medicus**, 2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings      Index of Conference Proceedings British Library. Document Supply Centre, 2003      *Forthcoming Books* Rose Army, 2003

**Handbook of Research on Politics in the Computer Age** Solo, Ashu M. G., 2019-08-30 Technology and particularly the Internet have caused many changes in the realm of politics Aspects of engineering computer science mathematics or natural science can be applied to politics Politicians and candidates use their own websites and social network profiles to get their message out Revolutions in many countries in the Middle East and North Africa have started in large part due to social networking websites such as Facebook and Twitter Social networking has also played a role in protests and riots in numerous countries The mainstream media no longer has a monopoly on political commentary as anybody can set up a blog or post a video online Now political activists can network together online The Handbook of Research on Politics in the Computer Age is a pivotal reference source that serves to increase the understanding of methods for politics in the computer age the effectiveness of these methods and tools for analyzing these methods The book includes research chapters on different aspects of politics with information technology engineering computer science or math from 27 researchers at 20 universities and research organizations in Belgium Brazil Cape Verde Egypt Finland France Hungary Italy Mexico Nigeria Norway Portugal and the United States of America Highlighting topics such as online campaigning and fake news the prospective audience includes but is not limited to researchers political and public policy analysts political scientists engineers computer scientists political campaign managers and staff politicians and their staff political operatives professors students and individuals working in the fields of politics e politics e government new media and communication studies and Internet

marketing      State-Building and Multilingual Education in Africa Ericka A. Albaugh, 2014-04-24 How do governments in Africa make decisions about language What does language have to do with state building and what impact might it have on democracy This manuscript provides a longue dur e explanation for policies toward language in Africa taking the reader through colonial independence and contemporary periods It explains the growing trend toward the use of multiple languages in education as a result of new opportunities and incentives The opportunities incorporate ideational relationships with former colonizers as well as the work of language NGOs on the ground The incentives relate to the current requirements of democratic institutions and the strategies leaders devise to win elections within these constraints By contrasting the environment faced by African leaders with that faced by European state builders it explains the weakness of education and limited spread of standard languages on the continent The work combines constructivist understanding about changing preferences with realist insights about the strategies leaders employ to maintain power      **Mathematics in African History and Cultures** Paulus Gerdes, 2007 This volume constitutes an updated version of the bibliography published in 2004 by the African Mathematical Union The African Studies Association attributed the original edition a special mention in the 2006 Conover Porter Award competition The book contains over 1600 bibliographic entries The appendices contain additional bibliographic information on 1 mathematicians of the Diaspora 2 publications by Africans on the history of mathematics outside Africa 3 time reckoning and astronomy in African history and cultures 4 string figures in Africa 5 examples of books published by African mathematicians 6 board games in Africa 7 research inspired by geometric aspects of the sona tradition The book concludes with several indices subject country region author ethnographic and linguistic journal mathematicians Professor Jan Persens of the University of the Western Cape South Africa and president of the African Mathematical Union 2000 2004 wrote the preface      *Using the Results of a National Assessment of Educational Achievement* Thomas Kellaghan, Vincent Greaney, Scott Murray, 2009 What are students learning Throughout the world governments striving to improve educational quality are turning to national assessments to provide this much needed information in key curriculum areas The capacity for carrying out national assessments has grown remarkably in recent years but it has not been matched by widespread use of their findings This book seeks to maximize an appreciation for the value of such data and to assist countries in exploiting the knowledge that national assessments yield Using the Results of a National Assessment of Educational Achievement identifies the main factors affecting the use of national assessment findings These include the political context in which an assessment is carried out the nature of the assessment census based or sample based the assignment of accountability for the results and the quality of assessment instruments The book describes the type of information that the main report of a national assessment should contain as well as other means of communicating findings to technical and nontechnical audiences It outlines general considerations in translating national assessment results into policy and action and examines specific procedures for using the data in policy making educational

management teaching and promoting public awareness The topics addressed in this volume should be of interest to policy makers educators researchers and development practitioners

**Social Computing, Behavioral-Cultural Modeling and Prediction** William G. Kennedy, Nitin Agarwal, Shanchieh Jay Yang, 2014-03-14 This book constitutes the refereed proceedings of the 7th International Conference on Social Computing Behavioral Cultural Modeling and Prediction SBP 2014 held in Washington DC USA in April 2014 The 51 full papers presented were carefully reviewed and selected from 101 submissions The SBP conference provides a forum for researchers and practitioners from academia industry and government agencies to exchange ideas on current challenges in social computing behavioral cultural modeling and prediction and on state of the art methods and best practices being adopted to tackle these challenges The topical areas addressed by the papers are social and behavioral sciences health sciences military science and information science

**Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Commons, 2003

**Global Ideologies Surrounding Children's Rights and Social Justice** Tshabangu, Icarbord, 2017-06-19 Social rights are a pivotal concern for all of society including today s population of children The study of the rights or lack thereof that children have must be undertaken to ensure that future generations are thriving members of their communities Global Ideologies Surrounding Children s Rights and Social Justice highlights the trials and tribulations that children have often had to overcome to be considered true citizens of their communities Featuring comprehensive coverage on a wide range of applicable topics such as child abuse socio economic rights social injustice and welfare issues this is a critical reference source for educators academicians students and researchers interested in studying new approaches for the social advancement of children

*Comparative Education Research* Mark Bray, Bob Adamson, Mark Mason, 2007-08-21 Approaches and methods in comparative education research are of obvious importance but do not always receive adequate attention This book contributes new insights within the longstanding traditions of the field A particular feature is the focus on different units of analysis Individual chapters compare places systems times cultures values policies curricula and other units These chapters are contextualised within broader analytical frameworks which identify the purposes and strengths of the field The book includes a focus on intra national as well as cross national comparisons and highlights the value of approaching themes from different angles The book will be of great value not only to producers of comparative education research but also to consumers who wish to understand more thoroughly the parameters and value of the field

*Resources in Education* , 2001

**Children's Chances** Jody Heymann, 2013-02-13 Children s Chances urges a shift from focusing on survival to targeting children s full and healthy development Drawing on comparative data on policies in 190 countries designed to combat poverty discrimination child labor illiteracy and child marriage Heymann and McNeill tell what works to ensure equal opportunities for all children

**International Handbook on Giftedness** Larisa Shavinina, 2009-08-12 This handbook presents a panoramic view of the field of giftedness It offers a comprehensive and authoritative account on what giftedness is how it is measured how it is

developed and how it affects individuals societies and the world as a whole It examines in detail recent advances in gifted education The handbook also presents the latest advances in the fast developing areas of giftedness research and practice such as gifted education and policy implications In addition coverage provides fresh ideas from entrepreneurial giftedness to business talent which will help galvanize and guide the study of giftedness for the next decade **Media Review Digest C** Edward Wall,2005-08 **Handbook of Research on Novel Soft Computing Intelligent Algorithms: Theory and Practical Applications** Vasant, Pandian M.,2013-08-31 This book explores emerging technologies and best practices designed to effectively address concerns inherent in properly optimizing advanced systems demonstrating applications in areas such as bio engineering space exploration industrial informatics information security and nuclear and renewable energies Provided by publisher *Journals of the House of Lords* Great Britain. Parliament. House of Lords,2006 Appendices accompany vols 64 67 71 Struggles for Citizenship in Africa Bronwen Manby,2009-10-15 Hundreds of thousands of people living in Africa find themselves non persons in the only state they have ever known Because they are not recognised as citizens they cannot get their children registered at birth or entered in school or university they cannot access state health services they cannot obtain travel documents or employment without a work permit and if they leave the country they may not be able to return Most of all they cannot vote stand for office or work for state institutions Ultimately such policies can lead to economic and political disaster or even war The conflicts in both Cote d'Ivoire and the Democratic Republic of Congo have had at their hearts the very right of one part of the national population to share with others on equal terms the rights and duties of citizenship This book brings together new material from across Africa of the most egregious examples of citizenship discrimination and makes the case for urgent reform of the law

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