



ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Advanced Level

MATHEMATICS PAPER 1

9164/1

JUNE 2013 SESSION

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 120.

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.

This question paper consists of 6 printed pages and 2 blank pages.

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Monday 14ths June 2013 Maths Morning Paper

Ensheng Dong



Monday 14ths June 2013 Maths Morning Paper:

A Chronicle of Permutation Statistical Methods Kenneth J. Berry, Janis E. Johnston, Paul W. Mielke Jr., 2014-04-11 The focus of this book is on the birth and historical development of permutation statistical methods from the early 1920s to the near present Beginning with the seminal contributions of R A Fisher E J G Pitman and others in the 1920s and 1930s permutation statistical methods were initially introduced to validate the assumptions of classical statistical methods Permutation methods have advantages over classical methods in that they are optimal for small data sets and non random samples are data dependent and are free of distributional assumptions Permutation probability values may be exact or estimated via moment or resampling approximation procedures Because permutation methods are inherently computationally intensive the evolution of computers and computing technology that made modern permutation methods possible accompanies the historical narrative Permutation analogs of many well known statistical tests are presented in a historical context including multiple correlation and regression analysis of variance contingency table analysis and measures of association and agreement A non mathematical approach makes the text accessible to readers of all levels The Continuing Study of Newspaper Reading Advertising Research Foundation, 1939 *Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971* New York Public Library. Research Libraries, 1979 British Books in Print , 1986

Monday 14ths June 2013 Maths Morning Paper Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Monday 14ths June 2013 Maths Morning Paper**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

https://splashdogs.com/book/uploaded-files/Documents/monmonier_how_to_lie_with_maps.pdf

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