
STATISTICS 1 MODULE REVISION SHEET

The S1 exam is 1 hour 30 minutes long and is in two sections.

Section A (36 marks) 5 questions worth no more than 8 marks each.

Section B (36 marks) 2 questions worth about 18 marks each.

You are allowed a graphics calculator.

Before you go into the exam make sure you are fully aware of the contents of the formula booklet you receive. Also be sure not to panic; it is not uncommon to get stuck on a question (I've been there!). Just continue with what you can do and return at the end to the question(s) you have found hard. If you have time check all your work, especially the first question you attempted...always an area prone to error.

J.M.S

1. Exploring Data

Measures of Central Tendency

- The mean (arithmetic mean) of a set of data $\{x_1, x_2, x_3 \dots x_n\}$ is given by

$$\bar{x} = \frac{\text{sum of all values}}{\text{the number of values}} = \frac{\sum_{i=1}^n x_i}{n} = \frac{\sum x}{n}.$$

When finding the mean of a frequency distribution the mean is given by

$$\frac{\sum(xf)}{\sum f} = \frac{\sum(xf)}{n}.$$

- If a set of numbers is arranged in ascending (or descending) order the *median* is the number which lies half way along the series. It is the number that lies at the $\frac{n+1}{2}$ position. Thus the median of $\{13, 14, 15, 15\}$ lies at the $2\frac{1}{2}$ position \Rightarrow average of 14 and 15 \Rightarrow median = 14.5.
- The *mode* of a set of numbers is the number which occurs the most frequently. Sometimes no mode exists; for example with the set $\{2, 4, 7, 8, 9, 11\}$. The set $\{2, 3, 3, 3, 4, 5, 6, 6, 6, 7\}$ has two modes 3 and 6 because each occurs three times. One mode \Rightarrow "unimodal". Two modes \Rightarrow "bimodal". More than two modes \Rightarrow "multimodal".
- The *mid-range* is given by the average of the minimum and maximum values. Mid-range = $(x_{\max} + x_{\min})/2$.

Mei Statistics Revision Notes

Judith A. Sangl



Mei Statistics Revision Notes:

Main Economic Indicators Comparative Methodological Analysis: Wage related statistics Volume 2002

Supplement 3 OECD,2003-12-05 This publication compares key aspects of statistical methodologies used by OECD member countries in the compilation of wage related statistics Such statistics comprise wages and earnings minimum wages labour costs and prices unit labour costs and household income **Main Economic Indicators** ,2003 **The China Review, Or, Notes and Queries on the Far East** ,1875 The China Review, Or, Notes and Queries on the Far East Nicholas Belfield

Dennys,Ernest John Eitel,William C. Barlow,James Dyer Ball,1875 *Health Care Financing Review* ,1990 *Consumer Information in a Changing Health Care System* Judith A. Sangl,1996 Describes several trends promoting more active consumer participation in health decisions how consumer info facilitates that role Major issues in developing consumer info are presented stressing how orientation to consumer needs use of social marketing techniques can yield improvement Discusses different aspects of info for choice of health plan ranging from consumer perspectives on their info needs their comprehension of quality indicators to methods used for providing such info such as direct counseling comparative health plan performance data Charts tables graphs **Integrative Biophysics** Fritz-Albert Popp,L.V. Belousov,2013-03-09 Most of the specialists working in this interdisciplinary field of physics biology biophysics and medicine are associated with The International Institute of Biophysics IIB in Neuss Germany where basic research and possibilities for applications are coordinated The growth in this field is indicated by the increase in financial support interest from the scientific community and frequency of publications Audience The scientists of IIB have presented the most essential background and applications of biophotonics in these lecture notes in biophysics based on the summer school lectures by this group This book is devoted to questions of elementary biophysics as well as current developments and applications It will be of interest to graduate and postgraduate students life scientists and the responsible officials of industries and governments looking for non invasive methods of investigating biological tissues *China Experiments* Ann M. Florini,Hairong Lai,Yeling Tan,2012-01-06 All societies face a key question how to empower governments to perform essential governmental functions while constraining the arbitrary exercise of power This balance always in flux is particularly fluid in today s China This insightful book examines the changing relationship between that state and its society as demonstrated by numerous experiments in governance at subnational levels and explores the implications for China s future political trajectory Ann Florini Hairong Lai and Yeling Tan set their analysis at the level of townships and counties investigating the striking diversity of China s exploration into different governance tools and comparing these experiments with developments and debates elsewhere in the world China Experiments draws on multiple cases of innovation to show how local authorities are breaking down traditional models of governance in responding to the challenges posed by the rapid transformations taking place across China s economy and society The book thus differs from others on China that focus on dynamics taking place at the elite level in Beijing and is

unique in its broad but detailed empirically grounded analysis The introduction examines China's changing governance architecture and raises key overarching questions It addresses the motivations behind the wide variety of experiments underway by which authorities are trying to adapt local governance structures to meet new demands Chapters 2-5 then explore each type of innovation in detail from administrative streamlining and elections to partnerships in civil society and transparency measures Each chapter explains the importance of the experiment in terms of implications for governance and draws upon specific case studies The final chapter considers what these growing numbers of experiments add up to whether China is headed towards a stronger more resilient authoritarianism or evolving towards its own version of democracy and suggests a series

Mathematical Reviews, 2005 *OECD Glossary of Statistical Terms* OECD, 2008-09-01 The OECD Glossary contains a comprehensive set of over 6 700 definitions of key terminology concepts and commonly used acronyms derived from existing international statistical guidelines and recommendations National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1967 First multi year cumulation covers six years 1965-70 **Technical Reports Awareness Circular : TRAC.**, 1989 *Current Catalog* National Library of Medicine (U.S.), 1967 Includes subject section name section and 1968-1970 technical reports **Quarterly GDP Revisions in G-20 Countries** Mr. Manik L. Shrestha, Mr. Marco Marini, 2013-03-07 This paper presents a statistical analysis of revisions in quarterly gross domestic product GDP of the Group of Twenty countries G-20 since 2000 The main objective is to assess whether the reliability of early estimates of quarterly GDP has been weakened from the turmoil of the 2008 financial crisis The results indicate that larger and more downward revisions were observed during the years 2008 and 2009 than in previous years The Mathematical Gazette, 1973 *AI and Big Data in Cardiology* Nicolas Duchateau, Andrew P. King, 2023-05-04 This book provides a detailed technical overview of the use and applications of artificial intelligence AI machine learning and big data in cardiology Recent technological advancements in these fields mean that there is significant gain to be had in applying these methodologies into day to day clinical practice Chapters feature detailed technical reviews and highlight key current challenges and limitations along with the available techniques to address them for each topic covered Sample data sets are also included to provide hands on tutorials for readers using Python based Jupyter notebooks and are based upon real world examples to ensure the reader can develop their confidence in applying these techniques to solve everyday clinical problems Artificial Intelligence and Big Data in Cardiology systematically describes and technically reviews the latest applications of AI and big data within cardiology It is ideal for use by the trainee and practicing cardiologist and informatician seeking an up to date resource on the topic with which to aid them in developing a thorough understanding of both basic concepts and recent advances in the field **Functional and structural brain network construction, representation and application** Mingxia Liu, Zhengxia Wang, Cen Chen, Shuo Hu, 2023-04-06 *Library of Congress Name Headings with References* Library of Congress, 1981 **The British National Bibliography** Arthur James Wells, 2002 **A Chinese Bestiary** Richard E.

Strassberg, 2023-11-03 A Chinese Bestiary presents a fascinating pageant of mythical creatures from a unique and enduring cosmography written in ancient China. The *Guideways through Mountains and Seas*, compiled between the fourth and first centuries b c e, contains descriptions of hundreds of fantastic denizens of mountains, rivers, islands, and seas, along with minerals, flora, and medicine. The text also represents a wide range of beliefs held by the ancient Chinese. Richard Strassberg brings the *Guideways* to life for modern readers by weaving together translations from the work itself with information from other texts and recent archaeological finds to create a lavishly illustrated guide to the imaginative world of early China. Unlike the bestiaries of the late medieval period in Europe, the *Guideways* was not interpreted allegorically; the strange creatures described in it were regarded as actual entities found throughout the landscape. The work was originally used as a sacred geography, as a guidebook for travelers, and as a book of omens. Today it is regarded as the richest repository of ancient Chinese mythology and shamanistic wisdom. The *Guideways* may have been illustrated from the start, but the earliest surviving illustrations are woodblock engravings from a rare 1597 edition. Seventy-six of those plates are reproduced here for the first time, and they provide a fine example of the Chinese engraver's art during the late Ming dynasty. This beautiful volume, compiled by a well-known specialist in the field, provides a fascinating window on the thoughts and beliefs of an ancient people and will delight specialists and general readers alike. A Chinese Bestiary presents a fascinating pageant of mythical creatures from a unique and enduring cosmography written in ancient China. The *Guideways through Mountains and Seas*, compiled between the fourth and first centuries b c e, contain

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key? A cladogram is a diagram that shows relationships between species. These relationships are based on ... SOLUTION:
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