

#### Cambridge International Examinations

Cambridge International Advanced Subsidiary and Advanced Level

#### MATHEMATICS

9709/62

Paper 6 Probability & Statistics 1 (S1)

February/March 2016

1 hour 15 minutes

Additional Materials: List of Formulae (MF9)

#### READ THESE INSTRUCTIONS FIRST

An answer booklet and a graph paper booklet are provided inside this question paper. You should follow the instructions on the front cover of both booklets. If you need additional answer paper or graph paper ask the invigilator for a continuation booklet or graph paper booklet.

Write in dark blue or black pen.

You may use an HB pencil for any diagrams or graphs.

Do not use staples, paper clips, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Answer all the questions.

Give non-exact numerical answers correct to 3 significant figures, or 1 decimal place in the case of angles in degrees, unless a different level of accuracy is specified in the question.

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

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

At the end of the examination, fasten all your work securely together.

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 50.



# **May 17th 2013 Stats S1**

**JL Elias** 

#### May 17th 2013 Stats S1:

Focus On: 100 Most Popular American League All-Stars Wikipedia contributors, Health Care Provision and Patient Mobility Rosella Levaggi, Marcello Montefiori, 2013-12-11 Patient mobility across Europe is markedly increasing and new generations will actively ask to be treated by the health care system that best meets their needs At a political level the EU issued the EU Directive no 24 2011 CE of 9th March 2011 concerning the application of patients rights in cross border health care and has contributed to improving the level of freedom of choice for the European citizen but it does not seem to have increased actual patient mobility across Europe Freedom to choose is necessary to grant the people of Europe the same access to public sector health care services The latter is a key instrument for an efficiently functioning single market ensuring real mobility within the EU The aim of this book is to study the current European health care market and discuss the hypothesis of a European right of citizenship with reference to health care services It examines patients mobility from several perspectives determinants of patient mobility governance of cross border mobility at EU level as concerns patients and health care professionals policy implications and case studies It is intended for health researchers decision makers and professionals concerned with health care provision and patient mobility. The goal is to provide through scientific and methodological rigor new informative tools useful for the implementation of new policies in the health care sector in order to implement effective health care integration in the European Union Prevention Practice and Health Promotion Catherine Rush Thompson, 2024-06-01 The all encompassing Second Edition of Prevention Practice and Health Promotion A Health Care Professional's Guide to Health Fitness and Wellness offers foundational knowledge to health care professionals implementing primary secondary and tertiary prevention to healthy at risk and disabled populations Dr Catherine Thompson along with her contributors all with diverse backgrounds in physical therapy rehabilitation and healthcare present the interdisciplinary health care perspective of health fitness and wellness concepts that are critical for providing preventive care to healthy impaired and at risk populations using the World Health Organization's International Classification of Functioning Disability and Health model as a guideline for assessment and management Based upon the goals outlined in Healthy People 2020 Prevention Practice and Health Promotion Second Edition also combines the vision of direct access for health care professionals with the goals of national health care to increase the quality of years of healthy life as well as to eliminate health disparities between various populations Recognizing the cost effectiveness of preventive care health care professionals have an expanded role in health promotion and wellness complementing evidence based medical management of acute and chronic conditions Some topics covered inside Prevention Practice and Health Promotion Second Edition include an overview of screening across the lifespan effective interventions to promote health fitness and wellness and options for program development including marketing and management strategies to address both individual and community needs Included with the text are online supplemental materials for faculty use in the classroom Features of the Second Edition Use

of the American Physical Therapy Association's Guide to Physical Therapist Practice Second Edition for health promotion Screening tools for special populations including children pregnant women older adults individuals with developmental disabilities and people with chronic conditions affecting their quality of life Resources to promote healthy living including nutrition stress management fitness training and injury prevention Perfect for clinicians students allied health professionals rehabilitation specialists physical medicine specialists and recreation therapists the Second Editionto Prevention Practice and Health Promotion is a valuable resource for everyone in the areas of health fitness and wellness Cartography Jan Brus, Alena Vondrakova, Vit Vozenilek, 2014-12-02 The fast exchange of information and knowledge are the essential conditions for successful and effective research and practical applications in cartography For successful research development it is necessary to follow trends not only in this domain but also try to adapt new trends and technologies from other areas Trends in cartography are also quite often topics of many conferences which have the main aim to link research education and application experts in cartography and GIS T into one large platform Such the right place for exchange and sharing of knowledge and skills was also the CARTOCON2014 conference which took place in Olomouc Czech Republic in February 2014 and this book is a compilation of the best and most interesting contributions. The book content consists of four parts The first part New approaches in map and atlas making collects studies about innovative ways in map production and atlases compilation Following part of the book Progress in web cartography brings examples and tools for web map presentation The third part Advanced methods in map use includes achievement of eye tracking research and users issues The final part Cartography in practice and research is a clear evidence that cartography and maps played the significant role in many geosciences and in many branches of the society Each individual paper is original and has its place in cartography

Financial Statistics .2014 AEMT: Advanced Emergency Care and Transportation of the Sick and Injured Advantage Package American Academy of Orthopaedic Surgeons (AAOS), 2021-10-13 The all new Fourth Edition of Advanced Emergency Care and Transportation of the Sick and Injured combines comprehensive content with an unparalleled suite of digital resources to fully empower AEMT students and educators **U. S. Army Register** United States. Adjutant-General's Office, 1945 The New Politics of Immigration and the End of Settler Societies Catherine Dauvergne, 2016-03-21 This book analyzes the contemporary politics of immigration from the asylum crisis to Islamophobia multiculturalism and post colonialism Agricultural Statistics 2015 Rich Holcomb, 2016-12-13 Agricultural Statistics is published each year to meet the diverse need for a reliable reference book on agricultural production supplies consumption facilities costs and returns Its tables of annual data cover a wide variety of facts in forms suited to most common use Professionals in the following fields to include farmers ranchers soil conservationists surveyors agricultural economist consultants livestock manufacturers livestock feedlot operators food distributors animal scientists food chemists food brokers farm and land appraisers statistical professionals economists and more may have the greatest interest in this volume Additionally students

pursuing coursework in food sciene and agribusiness coursework may have an interest in this reference for completing term papers and other assignments In this volume you will find foreign agricultural trade statistics that include Government as well as non Government shipments of merchandise from the United States and Territories to foreign countries They do not include U S shipments to the U S Armed Forces abroad for their own use or shipments between the States and U S Territories The world summaries of production and trade of major farm products are prepared by the U.S. Department of Agriculture from reports of the U S Department of Commerce official statistics of foreign governments other foreign source materials reports of U S Agricultural Attache and Foreign Service Officers and the result of office research Statistics presented in many of the tables represent actual counts of the items covered Most of the statistics relating to foreign trade and to Government programs such as numbers and amounts of loans made to farmers and amounts of loans made by the Commodity Credit Corporation etc are data of this type A large number of other tables however contain data that are estimates made by the Department of Agriculture The estimates for crops livestock and poultry made by the U S Department of Agriculture are prepared mainly to give timely current State and national totals and averages They are based on data obtained by sample surveys of farmers and of people who do business with farmers The survey data are supplemented by information from the Censuses of Agriculture taken every five years and check data from various sources Being estimates they are subject to revision as more data become available from commercial or Government sources Unless otherwise indicated the totals for the United States shown in the various tables on area production numbers price value supplies and disposition are based on official Department estimates They exclude States for which no official estimates are compiled Extensive table data include statistics of the following Statistics of Grain and Feed Cotton Tobacco Sugar Crops and Honey Oilseeds Fats and Oils Vegetables and Melons Hay Seeds and Minor Field Crops Cattle Hogs and Sheep Dairy and Poultry Insurance Credit Cooperatives Agricultural Conservation Forestry Consumption Family Living Fertilizers Pesticides Miscellaneous Agricultural Statistics such as Foreign Agricultural Trade Statistics including exports fisheries and more NOTE This annual product is available as a standing order To sign up for a standing order on this volume please call GPO Contact Center at 1 866 512 1800 and provide the ZASStanding Order Code for this publication Other related products Agriculture Farming resources collection can be found here https bookstore gpo gov catalog science technology agriculture farming Running a Food Hub A Business Operations Guide V 2 can be found here https bookstore gpo gov products sku 001 000 04766 3 Keys to Soil Taxonomy 2014 can be found here https bookstore gpo gov products sku 001 000 04761 2 ctid 188 Profitable Farms and Woodlands A Practical Guide in Agroforestry for Landowners Farmers and Ranchers ePub eBook can be found here https bookstore gpo gov products sku 999 000 44443 9 ctid 188 Keywords Farming Agriculture Agricultural Statistics 2014 Agricultural Statistics Agricultural Production Agricultural Consumption Agricultural Economics Other related products Running a Food Hub A Business Operations Guide V 2 can be found here https bookstore gpo gov products

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Offers extensive coverage of the R statistical programming language Contains 280 end of chapter exercises Includes a Justice Statistics Shana Hertz Hattis, 2024-10-31 companion website for university instructors who adopt the book Justice Statistics An Extended Look at Crime in the United States is a special edition of Crime in the United States It brings together key reports that fall under this category Topics covered include capital punishment rape and sexual assault among college age women correctional populations crime in the United States hate crimes probation parole human trafficking and law enforcement officers killed and assaulted Tables in this volume provide a comprehensive account of each of these subjects Each section contains statistical tables and figures highlighting the data as well as a brief summary of the report s methodology and at a glance highlights of the most compelling information This completely updated volume provides valuable information compiled by the Department of Justice including its subsidiaries the Bureau of Justice Statistics and the Federal Bureau of Investigation Hispanic, 1997 Economic Census, Survey of Minority-Owned Business Enterprises Company Statistics Series, EC97CS-4, 1997, Issued February 2001, 2001 What is The Family of Law? Alan Brown, 2019-02-07 This book argues that the legal understanding of family in the UK continues to be underpinned by the idealised image of the nuclear family premised upon the traditional gendered roles of father as breadwinner and mother as homemaker This examination of the law s model of the family has been prompted by the substantial reforms that have taken place in family law in recent decades and the significant evolution in social attitudes and familial practices that has occurred in parallel Throughout the book the influence of the nuclear family is noted in several different contexts various specific legal definitions of family the legal regulation of adult conjugal relationships the attribution of legal parenthood and the construction of the role of the parent within the law Ultimately this book argues that while these reforms have resulted in additional categories of relationship coming to be situated within the nuclear family model there has not as yet been any fundamental alteration of the underpinning concept of the nuclear family itself This book concludes by considering the possibilities offered beyond the nuclear family exploring the reconceptualising of the legal understanding of family around alternative and potentially radical models of family New Insights into Parvovirus Research Giorgio Gallinella, 2020-04-15 Viruses in the Parvoviridae family constitute one of the most diverse and intriguing fields of research While they all share an ssDNA genome and a small capsid they can differ widely in structure genome organization and expression virus cell interaction and impact on the host Exploring such diversity and unraveling the inherent complexity in these apparently simple viruses is an ongoing endeavor and commitment for the scientific community The translational implications of research on parvoviruses are relevant Within the family some viruses are important human and veterinary pathogens in need of diagnostic methods and antiviral strategies other viruses have long been studied and engineered as tools for oncolytic therapy or as sophisticated gene delivery vectors and can now display their wide and expanding applicative potential This Special Issue of Viruses collects recent contributions in the field of parvovirus research with a focus on new insights and

research on unresolved issues as well as new approaches exploiting systemic methodologies Evolution structural biology viral replication virus host interaction pathogenesis and immunity and viral oncotherapy are a selection of the topics addressed in the issue that can be of relevance to the community involved in parvovirus research and of interest to a wider audience

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