

Statistics and Probability [166 marks]

Juliet is a sociologist who wants to investigate if income affects happiness amongst doctors. This question asks you to review Juliet's methods and conclusions.

Juliet obtained a list of email addresses of doctors who work in her city. She contacted them and asked them to fill in an anonymous questionnaire. Participants were asked to state their annual income and to respond to a set of questions. The responses were used to determine a *happiness score* out of 100. Of the 415 doctors on the list, 11 replied.

- 1a. Describe **one** way in which Juliet could improve the reliability of her investigation. [1 mark]

Markscheme

Any one from: **R1**

increase sample size / increase response rate / repeat process
check whether sample is representative
test-retest participants or do a parallel test
use a stratified sample
use a random sample

Note: Do not condone:

Ask different types of doctor
Ask for proof of income
Ask for proof of being a doctor
Remove anonymity
Remove response K.

[1 mark]

- 1b. Describe **one** criticism that can be made about the validity of Juliet's investigation. [1 mark]

May 2013 Probability And Statistics 1 Markscheme

Rachel S Tattersall



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Handbook of Probability and Statistics Richard Stevens Burington, Donald Curtis May (jr.), 1977 *Handbook of Probability and Statistics With Tables* Richard Stevens Burington, Donald Curtis May, 2021-09-09 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public To ensure a quality reading experience this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy to read typeface We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant *Introduction to Probability and Statistics* Barbara M. Beaver, William Mendenhall, Robert J. Beaver, 1991 INTRODUCTION TO PROBABILITY AND STATISTICS is one of the first texts published by Duxbury and has been blending innovation with tradition for over thirty years It was the first statistics text to include case studies in it and now in the eleventh edition this text is the first to include java applets in the body of the text It has been used by hundreds of thousands of students since its first edition This new edition retains the excellent examples exercises and exposition that have made it a market leader and builds upon this tradition of excellence with new technology integration **Probability and Statistics** José I. Barragués, Adolfo Morais, Jenaro Guisasola, 2014-02-06 With contributions by leaders in the field this book provides a comprehensive introduction to the foundations of probability and statistics Each of the chapters covers a major topic and offers an intuitive view of the subject matter methodologies concepts terms and related applications The book is suitable for use for entry level courses in first year university studies of Science and Engineering higher level courses postgraduate university studies and for the research community Probability, Statistics and Random Processes Pappu Kousalya, 2013 Probability Statistics and Random Processes is designed to meet the requirements of students and is intended for beginners to help them understand the concepts from the first principles Spread across 16 chapters it discusses the theoretical aspects that have been refined and updated to reflect the current developments in the subjects It expounds on theoretical concepts that have immense practical applications giving adequate proofs to establish significant theorems Basic Concepts of Probability and Statistics J. L. Hodges, Jr., E. L. Lehmann, 1970-01-01 Basic Concepts of Probability and Statistics provides a mathematically rigorous introduction to the fundamental ideas of modern statistics for readers without a calculus background It is the only book at this level to introduce readers to modern concepts of hypothesis testing and estimation covering basic concepts of finite discrete models of probability and elementary statistical methods Although published in 1970 it maintains a modern outlook especially in its emphasis on models and model building and also by its coverage of topics such as simple random and

stratified survey sampling experimental design and nonparametric tests and its discussion of power The book covers a wide range of applications in manufacturing biology and social science including demographics political science and sociology Among the topics covered that readers may not expect in an elementary text are optimal design and a statement and proof of the fundamental Neyman Pearson lemma for hypothesis testing Audience intended for high school and undergraduate students as well as others who want a mathematically rigorous introduction to probability and statistics that does not require calculus It can supplement high school and college courses on discrete mathematics and will appeal especially to instructors teaching statistics courses within mathematics departments

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International AS & A Level James Nicholson, 2019-09-05 Providing complete syllabus support 9709 this stretching and practice focused course builds the advanced skills needed for the latest Cambridge assessments and the transition to higher education Engaging real world examples make mathematics relevant to real life

A First Course in Probability and

Statistics B. L. S. Prakasa Rao, 2009 This book provides a clear exposition of the theory of probability along with applications in statistics

Introduction to Probability and Statistics from a Bayesian Viewpoint, Part 1, Probability D. V.

Lindley, 1965-01-02 The two parts of this book treat probability and statistics as mathematical disciplines and with the same degree of rigour as is adopted for other branches of applied mathematics at the level of a British honours degree They contain the minimum information about these subjects that any honours graduate in mathematics ought to know They are written primarily for general mathematicians rather than for statistical specialists or for natural scientists who need to use statistics in their work No previous knowledge of probability or statistics is assumed though familiarity with calculus and linear algebra is required The first volume takes the theory of probability sufficiently far to be able to discuss the simpler random processes for example queueing theory and random walks The second volume deals with statistics the theory of making valid inferences from experimental data and includes an account of the methods of least squares and maximum likelihood it uses the results of the first volume

Probability Theory and Mathematical Statistics. Vol. 1 B.

Grigelionis, Yu. V. Prohorov, V. V. Sazonov, V. Statulevičius, 2020-05-18 No detailed description available for GRIGELIONIS PROCEEDINGS OF THE FIFTH VILNIUS CONFERENCE BOOK

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web background functional range of motion is defined as the required range of motions for individuals to maintain maximal independence along with optimal conditions for activities of daily living intervention plans for rehabilitation are directed towards the acquisition of anatomical range of motion

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web upper extremity range of motion exercises when exercising remember 1 take deep breaths during and after each exercise and after each set of exercises complete 2 3 sets x 10 reps daily 2 pace yourself 3 follow exercise directions as listed 4 notify your therapist if you have any questions or concerns 5

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web objective we quantified the range of motion rom required for eight upper extremity activities of daily living adls in healthy participants method fifteen right handed participants completed several bimanual and unilateral basic adls while joint kinematics were monitored using a motion capture system

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web upper extremity passive range of motion prom repeat stretches times and hold for seconds if you have any questions or concerns please call your occupational therapist at shoulder flexion 0 180 always make sure the person s thumb is up as if they are hitchhiking caregiver should be on the same

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