

Subject – Math(Higher Level)
Topic - Statistics and Probability
Year - Nov 2011 – Nov 2019

Question 1

[Maximum mark: 6]

In a particular city 20 % of the inhabitants have been immunized against a certain disease. The probability of infection from the disease among those immunized is $\frac{1}{10}$, and among those not immunized the probability is $\frac{3}{4}$. If a person is chosen at random and found to be infected, find the probability that this person has been immunized.

Question 2

[Maximum mark: 6]

A target consists of three concentric circles of radii 1 m, 3 m and 5 m respectively, as shown in the diagram.

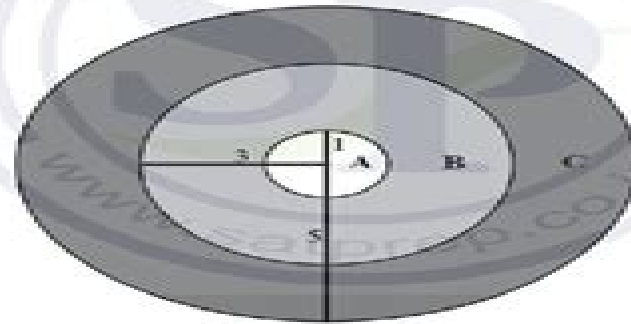


diagram not to
scale

Nina shoots an arrow at the target. She has a probability of $\frac{1}{2}$ of hitting the target. If the arrow hits the target it does so at a random point on the target. Ten points are scored for hitting region A, six points for hitting region B, and three points for hitting region C. Find the expected number of points Nina scores each time she shoots an arrow at the target.

Mathematics Hl Paper 3 Statistics And Probability

IM Harris



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Survive the IB! Nathan Taber, 2011 **Introducing the IB Diploma Programme** Marc Abrioux, Jill

Rutherford, 2013-02-14 Schools wishing to introduce the IB diploma programme are faced with major investment in terms of time effort and money in order to become authorised This manual is a resource for schools already offering the diploma as well as for prospective diploma schools Bulletin - Institute of Mathematical Statistics Institute of Mathematical

Statistics, 1997 **Empirical Processes with Applications to Statistics** Galen R. Shorack, Jon A. Wellner, 2009-09-24

Originally published in 1986 this valuable reference provides a detailed treatment of limit theorems and inequalities for empirical processes of real valued random variables It also includes applications of the theory to censored data spacings rank statistics quantiles and many functionals of empirical processes including a treatment of bootstrap methods and a summary of inequalities that are useful for proving limit theorems At the end of the Errata section the authors have supplied references to solutions for 11 of the 19 Open Questions provided in the book's original edition Statistical Literacy at School Jane M. Watson, 2013-05-13 This book reveals the development of students' understanding of statistical literacy It provides a way to see student thinking and gives readers a deeper sense of how students think about important statistical topics Intended as a complement to curriculum documents and textbook series it is consistent with the current principles and standards of the National Council of Teachers of Mathematics The term statistical literacy is used to emphasize that the purpose of the school curriculum should not be to turn out statisticians but to prepare statistically literate school graduates who are prepared to participate in social decision making Based on ten years of research with reference to other significant research as appropriate the book looks at students thinking in relation to tasks based on sampling graphical representations averages chance beginning inference and variation which are essential to later work in formal statistics For those students who do not proceed to formal study as well as those who do these concepts provide a basis for decision making or questioning when presented with claims based on data in societal settings Statistical Literacy at School Growth and Goals establishes an overall framework for statistical literacy in terms of both the links to specific school curricula and the wider appreciation of contexts within which chance and data handling ideas are applied demonstrates within this framework that there are many connections among specific ideas and constructs provides tasks adaptable for classroom or assessment use that are appropriate for the goals of statistical literacy presents extensive examples of student performance on the tasks illustrating hierarchies of achievement to assist in monitoring gains and meeting the goals of statistical literacy and includes a summary of analysis of survey data that suggests a developmental hierarchy for students over the years of schooling with respect to the goal of statistical literacy Statistical Literacy at School Growth and Goals is directed to researchers curriculum developers professionals and students in mathematics education as well those across the curriculum who are interested in students' cognitive development within the field to teachers who want to focus on the concepts involved in statistical literacy

without the use of formal statistical techniques and to statisticians who are interested in the development of student understanding before students are exposed to the formal study of statistics

Encyclopedia of Measurement and Statistics Neil J. Salkind, 2007 Publisher Description

NASA Technical Note, 1976

Handbook of Newsvendor Problems Tsan-Ming Choi, 2012-06-09 As a fundamental problem in stochastic inventory control the newsvendor problem has been studied since the 18th century in the economic literature and has been widely used to analyze supply chains in fashion and seasonal product industries Since the 1950s the newsvendor problem has been extensively studied in operations research and extended to model a variety of real life problems The simplest and most elementary version of the newsvendor problem is an optimal stocking problem in which a newsvendor needs to decide how many newspapers to order for future demand where the future demand is uncertain and follows a stationary distribution Research in this area has greatly increased over the last few years and now the Handbook of Newsvendor Problems Models Extensions and Applications captures the state of the art The handbook consists of two sections Models and Extensions and Applications Each section includes many interesting works in the respective domain Section I presents papers on topics like the multi product newsvendor problems the newsvendor problem with law invariant coherent measures of risk a Copula approach to inventory pooling problems with newsvendor products repeated newsvendor games with transshipments cooperative newsvendor games an economic interpretation for the price setting newsvendor problem newsvendor models with alternative risk preferences within expected utility theory and prospect theory frameworks and newsvendor problems with VaR and CVaR consideration Section II presents papers on such topics as a two period newsvendor problem for closed loop supply chain analysis the remanufacturing newsvendor problem inventory centralization in a newsvendor setting when shortage costs differ production planning on an unreliable machine for multiple items analysis of the newsvendor problem under carbon emissions policies optimal decisions of the manufacturer and distributor in a fresh product supply chain involving long distance transportation a newsvendor perspective on profit target setting for multiple divisions and a portfolio approach to multi product newsvendor problem with budget constraint This well balanced handbook presents a wealth of theoretical results from different perspectives With contributions from many of the leading researchers in the field the Handbook of Newsvendor Problems Models Extensions and Applications is a timely addition to the literature and consolidates all the new and exciting works related to the newsvendor problem into one high quality source

Control Systems, Robotics and Automation – Volume XVI Heinz D. Unbehauen, 2009-10-11 This Encyclopedia of Control Systems Robotics and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias This 22 volume set contains 240 chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It is the only publication of its kind carrying state of the art knowledge in the fields of Control Systems Robotics and Automation and is aimed by virtue of the several applications at the following five major target audiences

University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs *Selected Water Resources Abstracts* ,1985 Combining Soft Computing and Statistical Methods in Data Analysis Christian Borgelt,Gil González Rodríguez,Wolfgang Trutschnig,María Asunción Lubiano,María Angeles Gil,Przemyslaw Grzegorzewski,Olgierd Hryniewicz,2010-10-12 Over the last forty years there has been a growing interest to extend probability theory and statistics and to allow for more flexible modelling of imprecision uncertainty vagueness and ignorance The fact that in many real life situations data uncertainty is not only present in the form of randomness stochastic uncertainty but also in the form of imprecision fuzziness is but one point underlining the need for a widening of statistical tools Most such extensions originate in a softening of classical methods allowing in particular to work with imprecise or vague data considering imprecise or generalized probabilities and fuzzy events etc About ten years ago the idea of establishing a recurrent forum for discussing new trends in the before mentioned context was born and resulted in the first International Conference on Soft Methods in Probability and Statistics SMPS that was held in Warsaw in 2002 In the following years the conference took place in Oviedo 2004 in Bristol 2006 and in Toulouse 2008 In the current edition the conference returns to Oviedo This edited volume is a collection of papers presented at the SMPS 2010 conference held in Mieres and Oviedo It gives a comprehensive overview of current research into the fusion of soft methods with probability and statistics *Statistical Data Analysis Based on the L1-Norm and Related Methods* Yadolah Dodge,2012-12-06 This volume contains a selection of invited papers presented to the fourth International Conference on Statistical Analysis Based on the L1 Norm and Related Methods held in Neuchatel Switzerland from August 4-9 2002 Organized jointly by the University of Illinois at Chicago Gib Bassett the Rutgers University Regina Liu and Yehuda Vardi and the University of Neuchatel Yadolah Dodge the conference brought together experts whose research deals with theory and applications involving the L1 Norm The conference included invited and contributed talks as well as a tutorial on Quantile Regression This volume includes 36 refereed invited papers under seven headings Part one deals with Quantiles in all their forms and shapes It includes papers on quantile functions in non parametric multivariate analysis and empirical applications of quantile regression Much of the development in this direction follows from the fundamental paper by Koenker and Bassett in 1978 Financial and Time Series Analysis follows the section on quantiles Part three concerns Estimation Testing and Characterization Part four Deep in the Data deals with issues related to data depth Part five addresses Classification questions The problem of Density Estimation and Image Processing is discussed in Part six and finally Part seven presents two environmental applications The contributions represent clear evidence of important research involving theoretical issues and applications associated with the L1 Norm It is my hope that the articles contained in this volume and its predecessors published in 1987 1992 and 1997 will stimulate interest among researchers **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965-70 **Multisensor Data Fusion** David Hall,James

Llinas,2001-06-20 The emerging technology of multisensor data fusion has a wide range of applications both in Department of Defense DoD areas and in the civilian arena The techniques of multisensor data fusion draw from an equally broad range of disciplines including artificial intelligence pattern recognition and statistical estimation With the rapid evolution of these disciplines, the need for a comprehensive reference work is evident **The Shock and Vibration Bulletin** ,1980 **Fatigue Testing and Analysis of Results** W. Weibull,2013-10-22 Fatigue Testing and Analysis of Results discusses fundamental concepts of fatigue testing and results analysis The book begins with a description of the symbols and nomenclature selected for the present book mainly those proposed by the ASTM Committee E 9 on Fatigue Fatigue testing methods are then discussed including routine tests short life and long life tests cumulative damage tests and abbreviated and accelerated tests Separate chapters cover fatigue testing machines and equipment instruments and measuring devices and test pieces used in fatigue testing The factors affecting test results are considered including material types of stressing test machine environment and testing technique The final two chapters cover the planning of test programs and the presentation of results Test program planning involves the statistical design of a test series specification and sampling of test pieces and choice of test pieces testing machines and test conditions The chief purpose of most fatigue tests is the experimental determination of the relation between the endurance and the magnitude of the applied stress range for the material and the specimen under consideration and final results can be condensed into a table graph or analytical expression *Journal of Research of the National Bureau of Standards* United States. National Bureau of Standards,1962 Goodness-of-Fit-Techniques RalphB. D'Agostino,2017-10-19 Conveniently grouping methods by techniques such as chi squared and empirical distributionfunction and also collecting methods of testing for specific famous distributions this usefulreference is the first comprehensive review of the extensive literature on the subject It surveys the leading methods of testing fit provides tables to make the tests available assesses the comparative merits of different test procedures and supplies numerical examples to aid in understanding these techniques Goodness of Fit Techniques shows how to apply the techniques emphasizes testing for the three major distributions normal exponential and uniform discusses the handling of censored data and contains over 650 bibliographic citations that cover the field Illustrated with tables and drawings this volume is an ideal reference for mathematical and applied statisticians and biostatisticians professionals in applied science fields including psychologists biometricians physicians and quality control and reliability engineers advanced undergraduate and graduate level courses on goodness of fit techniques and professional seminars and symposia on applied statistics quality control and reliability *Scientific and Technical Aerospace Reports* ,1992 **Multifractals** David Harte,2001-06-26 Although multifractals are rooted in probability much of the related literature comes from the physics and mathematics arena Multifractals Theory and Applications pulls together ideas from both these areas using a language that makes them accessible and useful to statistical scientists It provides a framework in particular for the evaluation

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







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

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














































































































































































































































































































































































































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