

Ex. 1: A multiple-choice quiz contains 10 questions, each of which has 2 answer options but only one correct answer. What is the probability that a student will correctly guess at least 8 of the answers? Assume the student does not know the material and is purely guessing the answers.

$$P(x) = \frac{n!}{x!(n-x)!} (p)^x (q)^{n-x}$$

$$p = 0.5$$

$$q = 1 - p$$

$$= 0.5$$

$$P(8) = \frac{10!}{8!(10-8)!} (0.5)^8 (0.5)^{10-8} = 0.043943$$

$$n = 10$$

$$x = 8, 9, 10$$

$$P(9) = \frac{10!}{9!(10-9)!} (0.5)^9 (0.5)^{10-9} = 0.009766$$

$$P(10) = \frac{10!}{10!(10-10)!} (0.5)^{10} (0.5)^{10-10} = 0.000977$$

$$0.0547$$

$$5.47\%$$

Binomial Probability Problems And Solutions

Liyong Dong



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Probability Workbook For Dummies Deborah J. Rumsey, 2006-04-14 Sharpen your probability skills What are the chances you'll ace your next exam Land that promotion Beat the house in Vegas With Probability Workbook For Dummies you'll stop guessing and start knowing This book is your practical toolkit for learning to calculate the probability of well anything Through crystal clear explanations and real world scenarios you'll discover how probability shapes every decision you make and how understanding it gives you a serious edge You'll practice set theory counting permutations combinations conditional expectations probability modeling and beyond and strengthen your analytical muscles with hands on exercises that transform abstract concepts into practical skills Probability Workbook For Dummies will help you play your cards right Get clear explanations and examples of the key concepts of probability Boost your problem solving abilities Gain a fundamental understanding of how probability is used in daily life Work through practice problems to solidify what you've learned This Dummies guide is a great resource for high school and college students enrolled in statistics or probability courses It's also helpful for professionals who need a refresher as well as anyone interested in deepening their understanding of probability

Biostatistics Wayne W. Daniel, Chad L. Cross, 2018-11-13 The ability to analyze and interpret enormous amounts of data has become a prerequisite for success in allied healthcare and the health sciences Now in its 11th edition Biostatistics A Foundation for Analysis in the Health Sciences continues to offer in depth guidance toward biostatistical concepts techniques and practical applications in the modern healthcare setting Comprehensive in scope yet detailed in coverage this text helps students understand and appropriately use probability distributions sampling distributions estimation hypothesis testing variance analysis regression correlation analysis and other statistical tools fundamental to the science and practice of medicine Clearly defined pedagogical tools help students stay up to date on new material and an emphasis on statistical software allows faster more accurate calculation while putting the focus on the underlying concepts rather than the math Students develop highly relevant skills in inferential and differential statistical techniques equipping them with the ability to organize summarize and interpret large bodies of data Suitable for both graduate and advanced undergraduate coursework this text retains the rigor required for use as a professional reference

Scientific and Technical Aerospace Reports, 1965 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Medical Biostatistics & Epidemiology Diane Essex-Sorlie, 1995 This is the ideal resource to review biostatistics and epidemiology for the USMLE Steps 1 and 2 Each chapter presents a case study an explanation of the material and ends with a summary and review questions

Fundamentals of Biostatistics Bernard Rosner, 1995 This edition of Rosner's text offers a mastery of methods most often used in medical research with specific reference to actual medical literature and actual medical research The approach minimizes mathematical formulation yet gives complete explanations of all important concepts Every new

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