

Test Topic 4 - Statistics and Probability [50 marks]

1. [Maximum mark: 5]

Let A and B be events such that $P(A) = 0.5$, $P(B) = 0.4$ and $P(A \cup B) = 0.6$.

SPM.1.SL.TZ0.2

Find $P(A|B)$.

[5]

Markscheme

attempt to substitute into

$$P(A \cup B) = P(A) + P(B) - P(A \cap B) \text{ (M1)}$$

Note: Accept use of Venn diagram or other valid method.

$$0.6 = 0.5 + 0.4 - P(A \cap B) \text{ (M1)}$$

$$P(A \cap B) = 0.3 \text{ (seen anywhere) AI}$$

$$\text{attempt to substitute into } P(A|B) = \frac{P(A \cap B)}{P(B)} \text{ (M1)}$$

$$= \frac{0.3}{0.4}$$

$$P(A|B) = 0.75 (= \frac{3}{4}) \text{ AI}$$

[5 marks]

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Steven A. Lippman

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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 **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 [Complete Probability & Statistics 1 for Cambridge 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 *Probability And Statistics Vol.1* Biswas D,2009

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 *Probability and Statistics* José I. Barragués,Adolfo Morais,Jenaro Guisasola,2016-04-19 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

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Probability and Statistics Leonard Daniel Massey,2000 Applied Probability and Statistics Mario Lefebvre,2007-04-03 This book is based mainly on the lecture notes that I have been using since 1993 for a course on applied probability for engineers that I teach at the Ecole Polytechnique de Montreal This course is given to electrical computer and physics engineering students and is normally taken during the second or third year of their curriculum Therefore we assume that the reader has acquired a basic knowledge of differential and integral calculus The main objective of this textbook is to provide a reference that covers the topics that every student in pure or applied sciences such as physics computer science engineering etc should learn in probability theory in addition to the basic notions of stochastic processes and statistics It is not easy to find a single work on all these topics that is both succinct and also accessible to non mathematicians Because the students who for the most part have never taken a course on probability theory must do a lot of exercises in order to master the material presented I included a very large number of problems in the book some of which are solved in detail Most of the exercises proposed after each chapter are problems written especially for examinations over the years They are not in general routine problems like the ones found in numerous textbooks **Elements of Probability and Statistics** Steven A. Lippman,1971

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Table of Contents May 2013 Probability And Statistics 1 Markscheme

1. Understanding the eBook May 2013 Probability And Statistics 1 Markscheme
 - The Rise of Digital Reading May 2013 Probability And Statistics 1 Markscheme
 - Advantages of eBooks Over Traditional Books
2. Identifying May 2013 Probability And Statistics 1 Markscheme
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an May 2013 Probability And Statistics 1 Markscheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from May 2013 Probability And Statistics 1 Markscheme
 - Personalized Recommendations
 - May 2013 Probability And Statistics 1 Markscheme User Reviews and Ratings

- May 2013 Probability And Statistics 1 Markscheme and Bestseller Lists
- 5. Accessing May 2013 Probability And Statistics 1 Markscheme Free and Paid eBooks
 - May 2013 Probability And Statistics 1 Markscheme Public Domain eBooks
 - May 2013 Probability And Statistics 1 Markscheme eBook Subscription Services
 - May 2013 Probability And Statistics 1 Markscheme Budget-Friendly Options
- 6. Navigating May 2013 Probability And Statistics 1 Markscheme eBook Formats
 - ePUB, PDF, MOBI, and More
 - May 2013 Probability And Statistics 1 Markscheme Compatibility with Devices
 - May 2013 Probability And Statistics 1 Markscheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of May 2013 Probability And Statistics 1 Markscheme
 - Highlighting and Note-Taking May 2013 Probability And Statistics 1 Markscheme
 - Interactive Elements May 2013 Probability And Statistics 1 Markscheme
- 8. Staying Engaged with May 2013 Probability And Statistics 1 Markscheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers May 2013 Probability And Statistics 1 Markscheme
- 9. Balancing eBooks and Physical Books May 2013 Probability And Statistics 1 Markscheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection May 2013 Probability And Statistics 1 Markscheme
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine May 2013 Probability And Statistics 1 Markscheme
 - Setting Reading Goals May 2013 Probability And Statistics 1 Markscheme
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of May 2013 Probability And Statistics 1 Markscheme
 - Fact-Checking eBook Content of May 2013 Probability And Statistics 1 Markscheme
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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