

Test Topic 4 - Statistics and Probability [50 marks]

1. [Maximum mark: 5]

SPM.1.SL.TZ0.2

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

Find $P(A|B)$.

[5]

Markscheme

attempt to substitute into

$$P(A \cup B) = P(A) + P(B) - P(A \cap B) \quad (M1)$$

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

$$0.6 = 0.5 + 0.4 - P(A \cap B) \quad (M1)$$

$$P(A \cap B) = 0.3 \text{ (seen anywhere)} \quad A1$$

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

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

$$P(A|B) = 0.75 \left(= \frac{3}{4} \right) \quad A1$$

[5 marks]

May 2013 Probability And Statistics 1 Markscheme

Steven A. Lippman



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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

Introduction to Probability and Statistics William Mendenhall,1967 **Introduction to probability and statistics : from a Bayesian viewpoint. 1. Probability** Dennis V. Lindley,1976 Probability Probability distributions one variable Probability distributions several variables Stochastic process Inferences for normal distributions Inferences for several normal distributions Approximate methods Least squares **Introduction to Probability and Statistics** William Mendenhall,2013 **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 prob ability 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 es pecially 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 **Handbook of Probability and Statistics With Tables, By Richard Stevens Burington and Donald**

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