

*Example #1:* A bag contains 6 blue and 9 yellow marbles. For each condition below, find the probability of randomly selecting a blue marble on the first draw and a yellow marble on the second draw.

*Condition #1:* The first marble is replaced for the second draw.

$$P(\text{blue}) = \frac{6}{6+9} = \frac{6}{15}$$

$$P(\text{yellow}) = \frac{9}{6+9} = \frac{9}{15}$$

$$P(\text{blue and yellow}) = \frac{6}{15} \times \frac{9}{15} = \frac{54}{225} \approx 24\%$$

*Condition #2:* The first marble is not replaced for the second draw.

$$P(\text{blue}) = \frac{6}{9+6} = \frac{6}{15}$$

$$P(\text{yellow}) = \frac{9}{8+6} = \frac{9}{14} \quad \text{-total number of marbles is 14 on second draw}$$

$$P(\text{blue and yellow}) = \frac{6}{15} \times \frac{9}{14} = \frac{54}{210} \approx 26\%$$

# Conditional Probability Questions And Solutions

**Diane Essex-Sorlie**



## **Conditional Probability Questions And Solutions:**

**Statistics: Problems And Solution (Second Edition)** Eryl E Bassett, J Mike Bremner, Byron Jones, Byron J T Morgan, P M North, Ian T Jolliffe, 2000-06-27 Originally published in 1986 this book consists of 100 problems in probability and statistics together with solutions and most importantly extensive notes on the solutions The level of sophistication of the problems is similar to that encountered in many introductory courses in probability and statistics At this level straightforward solutions to the problems are of limited value unless they contain informed discussion of the choice of technique used and possible alternatives The solutions in the book are therefore elaborated with extensive notes which add value to the solutions themselves The notes enable the reader to discover relationships between various statistical techniques and provide the confidence needed to tackle new problems

Probabilistic Thinking Egan J. Chernoff, Bharath Sriraman, 2013-12-05 This volume provides a necessary current and extensive analysis of probabilistic thinking from a number of mathematicians mathematics educators and psychologists The work of 58 contributing authors investigating probabilistic thinking across the globe is encapsulated in 6 prefaces 29 chapters and 6 commentaries Ultimately the four main perspectives presented in this volume Mathematics and Philosophy Psychology Stochastics and Mathematics Education are designed to represent probabilistic thinking in a greater context

**NCERT Solutions Mathematics 12th** Prem Kumar, 2014-01-01

Mathematical Questions and Solutions, 1903 *Psychology and Mathematics Education* Gila Hanna, Laura Macchi, Karin Binder, Laura Martignon, Katharina Loibl, 2023-09-05 Modern Mathematics is constructed rigorously through proofs based on truths which are either axioms or previously proven theorems Thus it is par excellence a model of rational inquiry Links between Cognitive Psychology and Mathematics Education have been particularly strong during the last decades Indeed the Enlightenment view of the rational human mind that reasons makes decisions and solves problems based on logic and probabilities was shaken during the second half of the twentieth century Cognitive psychologists discovered that humans thoughts and actions often deviate from rules imposed by strict normative theories of inference Yet these deviations should not be called errors as Cognitive Psychologists have demonstrated these deviations may be either valid heuristics that succeed in the environments in which humans have evolved or biases that are caused by a lack of adaptation to abstract information formats Humans as the cognitive psychologist and economist Herbert Simon claimed do not usually optimize but rather satisfice even when solving problem This Research Topic aims at demonstrating that these insights have had a decisive impact on Mathematics Education We want to stress that we are concerned with the view of bounded rationality that is different from the one espoused by the heuristics and biases program In Simon s bounded rationality and its direct descendant ecological rationality rationality is understood in terms of cognitive success in the world correspondence rather than in terms of conformity to content free norms of coherence e g transitivity

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