

Conditional Probability

The conditional probability of an event B is the probability that the event will occur given the knowledge that an event A has already occurred. This probability is written $P(B|A)$, notation for the probability of B given A.

In the case where events A and B are independent (where event A has no effect on the probability of event B), the conditional probability of event B given event A is simply the probability of event B, that is $P(B)$. If events A and B are not independent, then the probability of the intersection of A and B (the probability that both events occur) is defined by $P(A \text{ and } B) = P(A) P(B|A)$. If A and B are two events associated with the same sample space of a random experiment, the conditional probability of the event A given that B has occurred,

$$P(A/B) = \quad \text{or} \quad P(B/A) =$$

Eg. A jar contains black and white marbles. Two marbles are chosen without replacement. The probability of selecting a black marble and then a white marble is 0.34, and the probability of selecting a black marble on the first draw is 0.47. What is the probability of selecting a white marble on the second draw, given that the first marble drawn was black?

Solution:

$$P(\text{White}|\text{Black}) = \frac{P(\text{Black and White})}{P(\text{Black})} = \frac{0.34}{0.47} = 0.72$$

1.1.1. Multiplication rule of probability

Solved Problems Conditional Probability

Seymour Lipschutz, Marc Lipson



Solved Problems Conditional Probability:

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

Your Mathematics Standards Companion, High School Frederick L. Dillon, W. Gary Martin, Basil M. Conway IV, Marilyn E. Strutchens, 2018-02-06 Transforming the standards into learning outcomes just got a lot easier In this resource you can see in an instant how teaching to your state standards should look and sound in the classroom Under the premise that math is math the authors provide a Cross Referencing Index for states implementing their own specific mathematics standards allowing you to see and understand which page number to turn to for standards based teaching ideas It's all here page by page The mathematical progression of each conceptual category starting with modeling as a unifying theme and moving through number and quantity algebra functions geometry and statistics and probability building from eighth grade standards The mathematics embedded in each conceptual category for a deeper understanding of the content How standards connect within and across domains and to previous grade standards so teachers can better appreciate how they relate How content standards connect with the standards for mathematical practice with a focus on modeling as a unifying theme Example tasks progressions of tasks and descriptions of what teachers and students should be doing to foster deep learning Your Mathematics Standards Companion is your one stop guide for teaching planning assessing collaborating and designing powerful high school mathematics curriculum in any state or district

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