

# Conditional Probability

A conditional probability is the probability of an event occurring given that another event has already occurred. The notation reads:  $P(A|B)$  = Probability of A given that B has already occurred.

$$P(A|B) = \frac{P(A \text{ AND } B)}{P(B)}$$

*Example:* Suppose that event A is rolling a die = 5, or  $A = \{5\}$ . Suppose event B is rolling an odd number, or  $B = \{1,3,5\}$ . So,  $P(A|B)$  is  $1/3$ . The probability of rolling an odd number is  $P(B) = 3/6$ . The intersection of A and B is 5, and  $P(5) = 1/6$ .

$$P(A|B) = \frac{P(A \text{ AND } B)}{P(B)} = \frac{1/6}{3/6} = .333$$

# Conditional Probability Examples And Solutions

**Yan Bai**



## **Conditional Probability Examples And Solutions:**

## Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Conditional Probability Examples And Solutions**

In a world inundated with screens and the cacophony of immediate conversation, the profound power and mental resonance of verbal beauty frequently disappear in to obscurity, eclipsed by the regular onslaught of sound and distractions. However, set within the lyrical pages of **Conditional Probability Examples And Solutions**, a fascinating perform of fictional splendor that pulses with natural emotions, lies an memorable journey waiting to be embarked upon. Written by way of a virtuoso wordsmith, that exciting opus instructions viewers on an emotional odyssey, delicately exposing the latent possible and profound influence stuck within the complex web of language. Within the heart-wrenching expanse of the evocative evaluation, we will embark upon an introspective exploration of the book is main subjects, dissect its interesting publishing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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