

A coin is tossed and a six-sided die is rolled. Find the probability of getting a head on the coin and a 6 on the die.

These two events (the coin and die) are independent events because the flipping of the coin does not affect rolling the die. The events are independent of each other.

Solution:

Let's find the probability of each independent event:

$P(\text{heads}) = \frac{1}{2}$ There is only 1 head on a coin.
There are two total outcomes (heads or tails)

$P(6) = \frac{1}{6}$ There is only one 6 on a die.
There are 6 total outcomes on a die (1,2,3,4,5,6)

Now we need to find the probability of tossing a head on the coin and rolling a 6 on the die. So, we need to combine both events. There's a special rule for calculating the probability of independent events.

To find the probability of two or more independent events that occur in sequence, find the probability of each event separately, and then multiply the answers.

$$P(A \text{ and } B) = P(A) \cdot P(B)$$

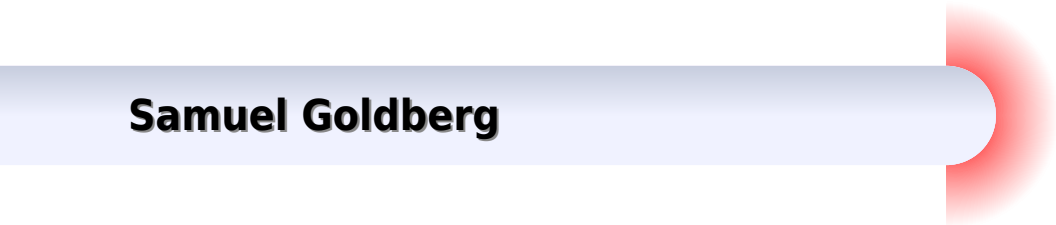
Now, let's apply our new rule:

$$P(\text{heads and a } 6) = \frac{1}{2} \cdot \frac{1}{6} = \frac{1}{12}$$

The probability of flipping a head on the coin and rolling a 6 on the die is 1/12.

Probability Problems Tesccc Answers

Samuel Goldberg



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Problems in Probability Theory, Mathematical Statistics and Theory of Random Functions Aram Arutiunovich Sveshnikov, Bernard R. Gelbaum, 1978-01-01 Approximately 1 000 problems with answers and solutions included at the back of the book illustrate such topics as random events random variables limit theorems Markov processes and much more

Probability Samuel Goldberg, 1960 *Fifty Challenging Problems in Probability with Solutions* Frederick Mosteller, 1987-01-01 Can you solve the problem of The Unfair Subway Marvin gets off work at random times between 3 and 5 p m His mother lives uptown his girlfriend downtown He takes the first subway that comes in either direction and eats dinner with the one he is delivered to His mother complains that he never comes to see her but he says she has a 50 50 chance He has had dinner with her twice in the last 20 working days Explain Marvin s adventures in probability are one of the fifty intriguing puzzles that illustrate both elementary and advanced aspects of probability each problem designed to challenge the mathematically inclined From The Flippant Juror and The Prisoner s Dilemma to The Cliffhanger and The Clumsy Chemist they provide an ideal supplement for all who enjoy the stimulating fun of mathematics Professor Frederick Mosteller who teaches statistics at Harvard University has chosen the problems for originality general interest or because they demonstrate valuable techniques In addition the problems are graded as to difficulty and many have considerable stature Indeed one has enlivened the research lives of many excellent mathematicians Detailed solutions are included There is every probability you ll need at least a few of them **Elements of Probability and Statistics. Answers to Selected**

Problems, Etc Frank L. Wolf, 1962 **115 Challenging and Interesting Probability Problems for High School and University Students and Teachers ,** *Probability* Samuel Goldberg, 1962 *CK-12 Probability and Statistics - Basic (A Short Course)* Brenda Meery, 2012-05-08 CK 12 Foundation s Basic Probability and Statistics A Short Course is an introduction to theoretical probability and data organization Students learn about events conditions random variables and graphs and tables that allow them to manage data *Problems In Probability* Terry M Mills, 2001-11-19 Probability theory is an important part of contemporary mathematics It plays a key role in the insurance industry in the modelling of financial markets and in statistics generally including all those fields of endeavour to which statistics is applied e g health physical sciences engineering economics The 20th century has been an important period for the subject because we have witnessed the development of a solid mathematical basis for the study of probability especially from the Russian school of probability under the leadership of A N Kolmogorov We have also seen many new applications of probability from applications of stochastic calculus in the financial industry to Internet gambling At the beginning of the 21st century the subject offers plenty of scope for theoretical developments modern applications and computational problems There is something for everyone in probability The notes and problems in this book have been designed to provide a basis for a series of lectures suitable for advanced undergraduate students on the subject of probability Through problem solving students can experience

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