

Fifty Challenging Problems in Probability

1. A drawer contains red socks and black socks. When two socks are drawn at random, the probability that both are red is $\frac{1}{2}$.

a) How small can the number of socks in the drawer be?

Answer: 4

b) How small if the number of black socks is even?

Answer: 20

2. A three-man jury has two members each of whom independently has probability p of making the correct decision and a third member who flips a coin for each decision (majority rules). A one-man jury has probability p of making the correct decision. Which jury has the better probability of making the correct decision?

Answer: The 2-juries have identical probability

3. In a common carnival game, a player tosses a penny from a distance of about 5 feet onto the surface of a table ruled in 1-inch squares. If the penny (24 inch in diameter) falls entirely inside a square, the player receives 5 cents but does not get his penny back; otherwise he loses his penny. If the penny lands on the table, what is his chance to win?

Answer: 5/16

4. Chuck-a-Luck is a gambling game often played at carnivals and gambling houses. A player may bet on any one of the numbers 1, 2, 3, 4, 5, 6. Three dice are rolled. If the player's number appears on one, two or three of the dice, he receives respectively one, two, or three times his original stake plus his own money back; otherwise he loses his stake. What is the player's expected loss per unit stake? (Actually the player may distribute stakes on several numbers, but each such stake can be regarded as a separate bet.)

Answer: 80/649

5. Mr. Brown always bets a dollar on the number 13 at roulette against the advice of Kind Friend. To help cure Mr. Brown of playing roulette, Kind Friend always bets Brown \$20 at even money that Brown will be behind at the end of 36 plays. How is the cure working? (Most American roulette wheels have 38 equally likely numbers. If the player's number comes up, he is paid 35 times his stake and gets his original stake back; otherwise he loses his stake.)

Answer: Kind Friend will be ahead first.

6. We often read of someone who has been dealt 13 spades at bridge. With a well-shuffled pack of cards, what is the chance that you are dealt a perfect hand (13 of one suit)? (Bridge is played with an ordinary pack of 52 cards, 13 in each of 4 suits, and each of 4 players is dealt 13.)

Answer: $52 \times 1/27$

7. The game of craps, played with two dice, is one of America's fastest and most popular gambling games. Calculating the odds associated with it is an instructive exercise.

The rules are these. Only 1 is lost for the two dice count. The player throws the dice and wins at once if the total for the first throw is 7 or 11, loses at once if it is 2, 3, or 12. Any other throw is called his "point". If the first throw is a point, the player throws the dice repeatedly until he either wins by throwing his point again or loses by throwing 7. What is the player's chance to win?

Answer: 80/99

8. An urn contains 10 black balls and 10 white balls, identical except for color. You choose "black" or "white". One ball is drawn at random, and if its color matches your choice, you get \$10, otherwise nothing. Write down the maximum amount you are willing to pay to play the game. The game will be played just once.

Answer: What we care is that you should be willing to pay at least as much to play the second game as the first.

9. Two strangers are separately asked to choose one of the positive whole numbers and advised that if they both choose the same number, they both get a prize. If you were one of these people, what number would you choose?

Answer: 1

10. Two strangers who have a private recognition signal agree to meet on a certain Thursday at 12 noon in New York City, a town familiar to neither; to discuss an important business deal, but later they discover that they have not chosen a meeting place, and neither can reach the other because both have embarked on trips.

Answer: Explain Step-Back

11. Three prisoners, A, B, and C, with apparently equally good records have applied for parole. The parole board has decided to release two of the three, and the prisoners know this but not which two. A warden friend of prisoner A knows who are to be released. Prisoner A swears that it would be unethical to let the warden if he, A, is to be released, but thinks of asking for the name of the one prisoner other than himself who is to be released. He thinks that before he asks, his chances of release are 2/3. He thinks that if the warden says "B" will be released," his own chances have no longer seem to 1/3, because neither A and B or B and C are to be released. And so A decides not to reduce his chances by asking. However, A is mistaken in his calculations. Explain.

Answer: Prop. of A's release = 2/3

12. Coupons in cereal boxes are numbered 1 to 5, and a set of one of each is required for a prize. With one coupon per box, how many boxes on the average are required to make a complete set?

Answer: 11.42

50 Challenging Problems In Probability

Larry Rabinowitz



50 Challenging Problems In Probability:

Fifty Challenging Problems in Probability with Solutions Frederick Mosteller, 2012-04-26 Remarkable puzzlers graded in difficulty illustrate elementary and advanced aspects of probability. These problems were selected for originality, general interest, or because they demonstrate valuable techniques. Also included are detailed solutions. 40 Puzzles and Problems in Probability and Mathematical Statistics Wolf Schwarz, 2007-11-25 As a student I discovered in our library a thin booklet by Frederick Mosteller entitled 50 Challenging Problems in Probability. It referred to as a elementary regular textbook by William Feller An Introduction to Probability Theory and its Applications. So I took this one along too and started on the rest of Mosteller's problems on the train riding home. From that evening I caught on to probability. These two books were not primarily about abstract formalisms but rather about basic modeling ideas and about ways, often extremely elegant ones, to apply those notions to a surprising variety of empirical phenomena. Essentially, these books taught the reader the skill to think probabilistically and to apply simple probability models to real world problems. The present book is in this tradition; it is based on the view that those cognitive skills are best acquired by solving challenging nonstandard probability problems. My own experience, both in learning and in teaching, is that challenging problems often help to develop and to sharpen our probabilistic intuition much better than plain style deductions from abstract concepts. 50 Challenging Problems in probability with solutions, 1987 Fifty Challenging Problems in Probability, with Solutions Leonard Casper, 1965

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 the excitement associated with probability. This activity will help them to develop their problem solving skills, which are so valuable in today's world. The problems in the book will introduce the student to some famous works and workers in probability and convey the historical, classical, and contemporary aspects of probability. A key feature of the book is that many problems are, in fact, small guided research projects. The research work involved in solving the problems will enhance the student's library research skills.

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An Introduction to Probability and Inductive Logic Ian Hacking, 2001-07-02 This is an introductory 2001 textbook on probability and induction written by one of the world s foremost philosophers of science The book has been designed to offer maximal accessibility to the widest range of students not only those majoring in philosophy and assumes no formal training in elementary symbolic logic It offers a comprehensive course covering all basic definitions of induction and probability and considers such topics as decision theory Bayesianism frequency ideas and the philosophical problem of induction The key features of this book are a lively and vigorous prose style lucid and systematic organization and presentation of ideas many practical applications a rich supply of exercises drawing on examples from such fields as psychology ecology economics bioethics engineering and political science numerous brief historical accounts of how fundamental ideas of probability and induction developed and a full bibliography of further reading

The Monty Hall Problem Jason Rosenhouse, 2009-06-04 In this light hearted yet ultimately serious book Jason Rosenhouse explores the history of this fascinating puzzle Using a minimum of mathematics and none at all for much of the book he shows how the problem has fascinated philosophers psychologists and many others and examines the many variations that have appeared over the years

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audacity and insight Nahin demonstrates why seemingly simple probability problems can stump even the experts

Universal Artificial Intelligence Marcus Hutter, 2005-12-29 Personal motivation The dream of creating artificial devices that reach or outperform human intelligence is an old one It is also one of the dreams of my youth which have never left me What makes this challenge so interesting A solution would have enormous implications on our society and there are reasons to believe that the AI problem can be solved in my expected lifetime So it's worth sticking to it for a lifetime even if it takes 30 years or so to reap the benefits The AI problem The science of artificial intelligence AI may be defined as the construction of intelligent systems and their analysis A natural definition of a system is anything that has an input and an output stream Intelligence is more complicated It can have many faces like creativity solving problems pattern recognition classification learning induction deduction building analogies optimization surviving in an environment language processing and knowledge A formal definition incorporating every aspect of intelligence however seems difficult Most if not all known facets of intelligence can be formulated as goal driven or more precisely as maximizing some utility function It is therefore sufficient to study goal driven AI e.g. the biological goal of animals and humans is to survive and spread The goal of AI systems should be to be useful to humans

The Mathematics of Various Entertaining Subjects Jennifer Beineke, Jason Rosenhouse, 2019-08-13 This volume brings together authors from a variety of specialties to present fascinating problems and solutions in recreational mathematics

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