

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 12 bets 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-By-Step

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 realizes that it would be unethical to ask 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 $2/3$, 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 With Solutions

Clemens Wendtner



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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 a complementary 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 **Problems In Probability (2nd Edition)** Terry M Mills, 2013-10-22 This is a book of problems in probability and their solutions The work has been written for undergraduate students who have a background in calculus and wish to study probability Probability theory is a key part of contemporary mathematics The subject plays a key role in the insurance industry modelling financial markets and statistics in general including all those fields of endeavour to which statistics is applied e.g. health physical sciences engineering economics social sciences Every student majoring in mathematics at university ought to take a course on probability or mathematical statistics Probability is now a standard part of high school mathematics and teachers ought to be well versed and confident in the subject Problem solving is important in mathematics This book combines problem solving and probability **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.

Probability and Statistics for Computer Science James L. Johnson, 2011-09-09 Comprehensive and thorough development of both probability and statistics for serious computer scientists. Goal oriented to present the mathematical analysis underlying probability results. Special emphases on simulation and discrete decision theory. Mathematically rich but self contained text at a gentle pace. Review of calculus and linear algebra in an appendix. Mathematical interludes in each chapter which examine mathematical techniques in the context of probabilistic or statistical importance. Numerous section exercises summaries historical notes and Further Readings for reinforcement of content. **Mathematical Reviews**, 2001

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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Will You Be Alive 10 Years from Now? Paul Nahin, 2019-11-12 What are the chances of a game show contestant finding a chicken in a box Is the Hanukkah dreidel a fair game Will you be alive ten years from now These are just some of the one of a kind probability puzzles that acclaimed popular math writer Paul Nahin offers in this lively and informative book Nahin brings probability to life with colorful and amusing historical anecdotes as well as an electrifying approach to solving puzzles that illustrates many of the techniques that mathematicians and scientists use to grapple with probability He looks at classic puzzles from the past from Galileo's dice tossing problem to a disarming dice puzzle that would have astonished even Newton and also includes a dozen challenge problems for you to tackle yourself with complete solutions provided in the back of the book Nahin then presents twenty five unusual probability puzzlers that you aren't likely to find anywhere else and which range in difficulty from ones that are easy but clever to others that are technically intricate Each problem is accompanied by an entertaining discussion of its background and solution and is backed up by theory and computer simulations whenever possible in order to show how theory and computer experimentation can often work together on probability questions All the MATLAB Monte Carlo simulation codes needed to solve the problems computationally are included in the book With his characteristic wit audacity and insight Nahin demonstrates why seemingly simple probability problems can stump even the experts

International Mathematical News, 1993

An Introduction to Probability and Its Applications Richard J. Larsen, Morris L. Marx, 1985 Drawing heavily on real world examples and case studies this volume offers a calculus based non measure theoretic problem solving oriented introduction to probability

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Proceedings American Institute for Decision Sciences. Meeting, 1972

American Book Publishing Record Cumulative, 1950-1977 R.R. Bowker Company. Department of Bibliography, 1978

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