BASIC GAMBLING MATHEMATICS

THE NUMBERS BEHIND THE NEON

Second Edition

Mark Bollman

Basic Gambling Mathematics The Numbers Behind The Neon

Mark Bollman

Basic Gambling Mathematics The Numbers Behind The Neon:

Basic Gambling Mathematics Mark Bollman,2023-08-31 Basic Gambling Mathematics The Numbers Behind the Neon Second Edition explains the mathematics involved in analyzing games of chance including casino games horse racing and other sports and lotteries The book helps readers understand the mathematical reasons why some gambling games are better for the player than others It is also suitable as a textbook for an introductory course on probability Along with discussing the mathematics of well known casino games the author examines game variations that have been proposed or used in actual casinos Numerous examples illustrate the mathematical ideas in a range of casino games while end of chapter exercises go beyond routine calculations to give readers hands on experience with casino related computations New to the Second Edition Thorough revision of content throughout including new sections on the birthday problem for informal gamblers and the Monty Hall problem as well as an abundance of fresh material on sports gambling Brand new exercises and problems A more accessible level of mathematical complexity to appeal to a wider audience **Basic Gambling Mathematics** Mark Bollman,2014-06-13 Understand the Math Underlying Some of Your Favorite Gambling Games Basic Gambling Mathematics The Numbers Behind the Neon explains the mathematics involved in analyzing games of chance including casino games horse racing and lotteries The book helps readers understand the mathematical reasons why some gambling games are better for the player **Basic Gambling Mathematics** Mark Bollman,2014 Understand the Math Underlying Some of Your Favorite Gambling Games Basic Gambling Mathematics The Numbers Behind the Neon explains the mathematics involved in analyzing games of chance including casino games horse racing and lotteries The book helps readers understand the mathematical reasons why some gambling games are better for the player than others It is also suitable as a textbook for an introductory course on probability Along with discussing the mathematics of well known casino games the author examines game variations that have been proposed or used in actual casinos Numerous examples illustrate the mathematical ideas in a range of casino games while end of chapter exercises go beyond routine calculations to give readers hands on experience with casino related computations The book begins with a brief historical introduction and mathematical preliminaries before developing the essential results and applications of elementary probability including the important idea of mathematical expectation The author then addresses probability questions arising from a variety of games including roulette craps baccarat blackjack Caribbean stud poker Royal Roulette and sic bo The final chapter explores the mathematics behind get rich quick schemes such as the martingale and the Iron Cross and shows how simple mathematics uncovers the flaws in these systems **Basic Gambling Mathematics** Mark Bollman,2023-08-07 This book explains the mathematics involved in analyzing games of chance including casino games horse racing and other sports and lotteries It is also suitable as a textbook for an introductory course on probability Numerous examples and end of chapter exercises illustrate the mathematical ideas in a range of casino games **Mathematics of Casino Carnival Games** Mark Bollman,2020-10-20 There are thousands of

books relating to poker blackjack roulette and baccarat including strategy guides statistical analysis psychological studies and much more However there are no books on Pell Rouleno Street Dice and many other games that have had a short life in casinos While this is understandable most casino gamblers have not heard of these games and no one is currently playing them their absence from published works means that some interesting mathematics and gaming history are at risk of being lost forever Table games other than baccarat blackjack craps and roulette are called carnival games as a nod to their origin in actual traveling or seasonal carnivals Mathematics of Casino Carnival Games is a focused look at these games and the mathematics at their foundation Features Exercises with solutions are included for readers who wish to practice the ideas presented Suitable for a general audience with an interest in the mathematics of gambling and games Goes beyond providing practical tips for gamblers and explores the mathematical principles that underpin gambling games *The Four Corners of Mathematics* Thomas Waters,2024-12-02 The Four Corners of Mathematics A Brief History from Pythagoras to Perelman describes the historical development of the big ideas in mathematics in an accessible and intuitive manner In delivering this bird s eye view of the history of mathematics the author uses engaging diagrams and images to communicate complex concepts while also exploring the details of the main results and methods of high level mathematics As such this book involves some equations and terminology but the only assumption on the readers knowledge is A level or high school mathematics Features Divided into four parts covering Geometry Algebra Calculus and Topology Presents high level mathematics in a visual and accessible way with numerous examples and over 250 illustrations Includes several novel and intuitive proofs of big theorems so even the nonexpert reader can appreciate them Sketches of the lives of important contributors with an emphasis on often overlooked female mathematicians and those who had to struggle **Mathematics of The Big Four Casino Table Games** Mark Bollman,2021-08-19 Mathematics is the basis of casino games which are the bedrock of a 100 billion year industry Mathematics of the Big Four Casino Table Games Blackjack Baccarat Craps Roulette takes an in depth look at the four biggest table games in casinos blackjack baccarat craps and roulette It guides readers through the mathematical principles that underpin these games and their different variations providing insights that will be of huge interest to gamblers casino managers researchers and students of mathematics Features A valuable teaching resource replete with exercises for any course on gambling mathematics Suitable for a wide audience of professionals researchers and students Many practical applications for the gambling industry Mark Bollman is Professor of Mathematics and chair of the Department of Mathematics Computer Science at Albion College in Albion Michigan and has taught 116 different courses in his career Among these courses is Mathematics of the Gaming Industry where mathematics majors carefully study the math behind games of chance and travel to Las Vegas Nevada in order to compare theory and practice He has also taken those ideas into Albion s Honors Program in Great Issues in Humanities Perspectives on Gambling which considers gambling from literary philosophical and historical points of view as well as mathematically Mark has also authored

Basic Gambling Mathematics The Numbers Behind the Neon Mathematics of Keno and Lotteries and Mathematics of Casino Carnival Games   *Mathematics of Keno and Lotteries* Mark Bollman,2018-04-17 Mathematics of Keno and Lotteries is an elementary treatment of the mathematics primarily probability and simple combinatorics involved in lotteries and keno Keno has a long history as a high advantage high payoff casino game and state lottery games such as Powerball are mathematically similar MKL also considers such lottery games as passive tickets daily number drawings and specialized games offered around the world In addition there is a section on financial mathematics that explains the connection between lump sum lottery prizes as with Powerball and their multi year annuity options So called winning systems for keno and lotteries are examined mathematically and their flaws identified   **Intermediate Poker Mathematics** Mark Bollman,2024-11-25 Intermediate Poker Mathematics provides a fascinating collection of mathematical questions set in the diverse world of poker While it is absolutely possible that a poker player will glean some insight that will improve their skill at the table this book is not intended primarily as a players strategy manual but rather as a means of building up readers understanding of the mathematical concepts at play in the complex world of poker Although the book is suitable for a general audience it is formatted in the style of a textbook with exercises included at the end of each chapter to help build understanding Features Written in an approachable style with minimal mathematical prerequisites beyond basic algebra and arithmetic Replete with engaging exercises and examples Wide ranging exploration of multiple forms of poker beyond the more well known varieties   **Parabolic Problems** David Angell,Thomas Britz,2024-06-27 Parabola is a mathematics magazine published by UNSW Sydney Among other things each issue of Parabola has contained a collection of puzzles problems on various mathematical topics and at a suitable level for younger but mathematically sophisticated readers Parabolic Problems 60 Years of Mathematical Puzzles in Parabola collects the very best of almost 1800 problems and puzzles into a single volume Many of the problems have been re mastered and new illustrations have been added Topics covered range across geometry number theory combinatorics logic and algebra Solutions are provided to all problems and a chapter has been included detailing some frequently useful problem solving techniques making this a fabulous resource for education and most importantly fun Features Hundreds of diverting and mathematically interesting problems and puzzles Accessible for anyone with a high school level mathematics education Wonderful resource for teachers and students of mathematics from high school to undergraduate level and beyond   Lateral Solutions to Mathematical Problems Desmond MacHale,2023-08-31 Lateral Solutions to Mathematical Problems offers a fresh approach to mathematical problem solving via lateral thinking Lateral thinking has long been used informally by good mathematics teachers and lecturers to spice up their material and interest their students in the more artistic aspects of mathematical problem solving In this book the author attempts to carry out this process formally with reference to specific non technical problems that are easily understood and explained at an intermediate level This book is appropriate for interested high school students undergraduates and postgraduates looking for

relief from technical material and also looking for insight into the methodology of mathematics for teachers and lecturers looking for a novel approach to course material and anyone interested in both mathematics and lateral thinking   **Blackjack Mathematics for Non-Mathematicians** MARK. BOLLMAN,2026-08 The emphasis is on the mathematics that underlies the game the intention of is to present the math at a level that is accessible to the educated citizen one who can handle some algebraic manipulations perhaps with reminders but need not know any calculus or advanced statistics   **Probability Guide to Gambling** Catalin Barboianu,2006 Over the past two decades gamblers have begun taking mathematics into account more seriously than ever before While probability theory is the only rigorous theory modeling the uncertainty even though in idealized conditions numerical probabilities are viewed not only as mere mathematical information but also as a decision making criterion especially in gambling This book presents the mathematics underlying the major games of chance and provides a precise account of the odds associated with all gaming events It begins by explaining in simple terms the meaning of the concept of probability for the layman and goes on to become an enlightening journey through the mathematics of chance randomness and risk It then continues with the basics of discrete probability definitions properties theorems and calculus formulas combinatorics and counting arguments for those interested in the supporting mathematics These mathematic sections may be skipped by readers who do not have a minimal background in mathematics these readers can skip directly to the Guide to Numerical Results to pick the odds and recommendations they need for the desired gaming situation Doing so is possible due to the organization of that chapter in which the results are listed at the end of each section mostly in the form of tables The chapter titled The Mathematics of Games of Chance presents these games not only as a good application field for probability theory but also in terms of human actions where probability based strategies can be tried to achieve favorable results Through suggestive examples the reader can see what are the experiments events and probability fields in games of chance and how probability calculus works there The main portion of this work is a collection of probability results for each type of game Each game s section is packed with formulas and tables Each section also contains a description of the game a classification of the gaming events and the applicable probability calculations The primary goal of this work is to allow the reader to quickly find the odds for a specific gaming situation in order to improve his or her betting gaming decisions Every type of gaming event is tabulated in a logical consistent and comprehensive manner The complete methodology and complete or partial calculations are shown to teach players how to calculate probability for any situation for every stage of the game for any game Here readers can find the real odds returned by precise mathematical formulas and not by partial simulations that most software uses Collections of odds are presented as well as strategic recommendations based on those odds where necessary for each type of gaming situation The book contains much new and original material that has not been published previously and provides great coverage of probabilities for the following games of chance Dice Slots Roulette Baccarat Blackjack Texas Hold em Poker Lottery and Sport Bets Most of games of chance are predisposed to

probability based decisions This is why the approach is not an exclusively statistical one like many other titles published on this subject but analytical every gaming event is taken as an individual applied probability problem to solve A special chapter defines the probability based strategy and mathematically shows why such strategy is theoretically optimal   Intermediate Poker Mathematics Mark Bollman,2024-11-25 Intermediate Poker Mathematics provides a fascinating collection of mathematical questions set in the diverse world of poker While it is absolutely possible that a poker player will glean some insight that will improve their skill at the table this book is not intended primarily as a players strategy manual but rather as a means of building up readers understanding of the mathematical concepts at play in the complex world of poker Although the book is suitable for a general audience it is formatted in the style of a textbook with exercises included at the end of each chapter to help build understanding Features Written in an approachable style with minimal mathematical prerequisites beyond basic algebra and arithmetic Replete with engaging exercises and examples Wide ranging exploration of multiple forms of poker beyond the more well known varieties   What's Luck Got to Do with It? Joseph Mazur,2010-05-17 The hazards of feeling lucky in gambling Why do so many gamblers risk it all when they know the odds of winning are against them Why do they believe dice are hot in a winning streak Why do we expect heads on a coin toss after several flips have turned up tails What s Luck Got to Do with It takes a lively and eye opening look at the mathematics history and psychology of gambling to reveal the most widely held misconceptions about luck It exposes the hazards of feeling lucky and uses the mathematics of predictable outcomes to show when our chances of winning are actually good Mathematician Joseph Mazur traces the history of gambling from the earliest known archaeological evidence of dice playing among Neolithic peoples to the first systematic mathematical studies of games of chance during the Renaissance from government administered lotteries to the glittering seductions of grand casinos and on to the global economic crisis brought on by financiers trillion dollar bets Using plenty of engaging anecdotes Mazur explains the mathematics behind gambling including the laws of probability statistics betting against expectations and the law of large numbers and describes the psychological and emotional factors that entice people to put their faith in winning that ever elusive jackpot despite its mathematical improbability As entertaining as it is informative What s Luck Got to Do with It demonstrates the pervasive nature of our belief in luck and the deceptive psychology of winning and losing Some images inside the book are unavailable due to digital copyright restrictions

The Mathematics of Slots Catalin Barboianu,2013 This eighth book of the author on gambling math presents in accessible terms the cold mathematics behind the sparkling slot machines either physical or virtual It contains all the mathematical facts grounding the configuration functionality outcome and profits of the slot games Therefore it is not a so called how to win book but a complete rigorous mathematical guide for the slot player and also for game producers being unique in this respect As it is primarily addressed to the slot player its goal is to present practical applications of the mathematical models of slot games in order to provide numerical results that a player can use as criteria for gaming decisions or just as

information for any slot game and any predicted winning event These results are focused on probability and expected value these being the most important parameters for decisional criteria in slots The book is packed with plenty of figures tables and formulas The content is organized so that readers can skip the theoretical parts and go picking the practical results numerical in tables of values where possible or ready to compute formulas for the desired situation The practical results are gathered in the last chapter titled Practical Applications and Numerical Results the largest part of the book for the most popular categories of slot machines namely with 3 5 9 and 16 reels Any other category of slot games is covered in the theoretical part of the book where the general formulas apply not only to existing slot games but also to possible future slot games of any design and configuration The author does not just throw the slot mathematics to the audience and run away but offers an ultimate practical contribution with the chapter How to estimate the number of stops and the symbol distribution on a reel a surprise for both players and producers where one can see that mathematics provides players with some statistical methods as well as methods based on physical measurements for retrieving these missing data Having these data along with the mathematical results of this book anyone can generate the PAR sheet of any slot machine In the last decade mathematics has been taken more and more seriously into account in gaming as being the essence that governs the games of chance and the only rigorous tool providing information on optimal play where possible For the popular game of slots mathematics already fulfilled its duty by providing all the data that it can provide and that cannot be found on the display of the slot machines it is all here in this book **Understanding Lottery Mathematics** Jaime Aguirre,2016-05-23 The chances of matching the twenty numbers drawn in a keno game are 1 in 3 535 316 142 212 180 000 That is 1 in 3 535 316 trillion The number in itself is hard to imagine Keno is a type of lottery and as such it is ruled by the laws of probability Lotteries are played in many countries around the world Millions of people buy tickets on a regular or occasional basis in hopes of beating the odds even when the chances are 1 in 3 5 quintillion But how many of those dreamers have a real understanding of the mathematical principles ruling their chances In the following pages you will find the basic information needed to clearly understand chance in terms of easy mathematical rules and you will learn how to apply this knowledge to work out your chances of winning a prize in any lottery or lottery like game of chance This work is addressed not only to high school students with a passion for the mathematics of chance but also to those who simply want to understand how lotteries work in terms of mathematics It is not going to be an in depth study of the subject but rather an introduction to basic concepts and methods in probability as well as how to apply them to the different types of lotteries Youngsters are increasingly being persuaded to gambling through sport lottery websites online games and advertising Understanding the risks of betting and preventing the compulsion to gamble begins with education Education on wagering must start at the core of the matter the knowledge of probability theory and the relevant mathematical rules applied to evaluate the chances of any lottery prize subdivision In the subsequent contents you will find a detailed explanation of the mathematical groundworks of lotteries

without recurring to intricate formulas or terms This will be done through examples of real lotteries and in some instances by analyzing errors found in official lottery websites This book does not promise you any secret or system to win the lottery If there were a systematic way of predicting a winning combination the numerous authors of the large amount of books on lottery systems would now be millionaires themselves and would not be selling their findings cheaply *The Lottery Book* Don Catlin,2003 This book should be read by everyone who plays the state run lotteries Despite the fact that we players all know the odds are a million to one against winning those big jackpots most of us don t know the nature of these games or the math behind them or yes how to most effectively play them In this groundbreaking book you will learn How to increase your chances of winning a jackpot that doesn t have to be shared with other players How to tell when a jackpot becomes a positive expectation bet and what that really means How to keep the long arm of the government from getting its hands on significant portions of your wins How to figure the odds on the various lotteries and the typical scratch off tickets How to find positive expectation scratch off games during special promotions *Casino Gambling* Virginia L. Graham,1990 **The Mathematics of Lottery** Catalin Barboianu,2009-03 This work is a complete mathematical guide to lottery games covering all of the problems related to probability combinatorics and all parameters describing the lottery matrices as well as the various playing systems The mathematics sections describe the mathematical model of the lottery which is in fact the essence of the lotto game The applications of this model provide players with all the mathematical data regarding the parameters attached to the gaming events and personal playing systems By applying these data one can find all the winning probabilities for the play with one line for each category in part or cumulatively and how these probabilities change with playing the various types of systems containing several lines depending on their structure Also each playing system has a formula attached that provides the number of possible multiple prizes in various circumstances Other mathematical parameters of the playing systems and the correlations between them are also presented The generality of the mathematical model and of the obtained formulas allows their application for any existent lottery including variations like Keno and any playing system Each formula is followed by numerical results covering the most frequent lottery matrices worldwide and by multiple examples predominantly belonging to the 6 49 lottery The listing of the numerical results in dozens of well organized tables along with instructions and examples of using them makes possible the direct usage of this guide by players without a mathematical background The author also discusses from a mathematical point of view the strategies of choosing involved in the lotto game The book does not offer so called winning strategies proving that the only strategy is that of choosing but helps players to better organize their own playing systems and to confront their own convictions so many times based on false perceptions with the incontestable reality offered by the direct applications of the mathematical model of the lotto game As a must have handbook for any lottery player this book offers essential information about the game itself and can provide the basis for gaming decisions of any kind

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