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# BASIC GAMBLING MATHEMATICS

THE NUMBERS BEHIND  
THE NEON

Second Edition

Mark Bollman

RIVIERA



# Basic Gambling Mathematics The Numbers Behind The Neon

**Mark Hunacek**



## **Basic Gambling Mathematics The Numbers Behind The Neon:**

*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, 2023-08-31 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 Quantitative Literacy Through Games and Gambling Mark Hunacek, 2024-10-04 This book was developed to address a need Quantitative Literacy courses have been established in the mathematics curriculum for decades now The students in these courses typically dislike and fear mathematics and the result is often a class populated by many students who are unmotivated and uninterested in the material This book is a text for such a course however it is focused on

a single idea that most students seem to already have some intrinsic interest in and is written at an accessible level It covers the basic ideas of discrete probability and shows how these ideas can be applied to familiar games roulette poker blackjack etc The gambling material is interweaved through the book and introduced as soon as the necessary mathematics has been developed Throughout mathematical formalism and symbolism have been avoided and numerous examples are provided The book starts with a simple definition of probability goes through some basic concepts like combining events and expected value and then discusses some elementary mathematical aspects of various games Roulette is introduced very early on as is the game of craps which requires some knowledge of conditional probability Other games like poker blackjack and lotteries whose study requires some rudimentary combinatorics come shortly thereafter The book ends with a brief introduction to zero sum games with some attention paid to the use of these ideas in studying bluffing In addition to discussion of these traditional games the author motivates probability by talking about a few applications in legal proceedings that illustrate how mathematics has been misused in the courtroom There is also a discussion of the Monty Hall problem a nonintuitive result in probability that has an interesting and colorful history Hopefully students studying from this text will find that mathematics is not as horrible as they have always thought and offers some interesting applications in the real world This should perhaps be the goal of any quantitative literacy course

*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

**Mathematics of The Big Four Casino Table Games** Mark Bollman, 2021-08-20 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      Mathematics of Tabletop Games Aaron

Montgomery,2024-07-24 Mathematics of Tabletop Games provides a bridge between mathematics and hobby tabletop gaming Instead of focusing on games mathematicians play such as nim and chomp this book starts with the tabletop games played by avid gamers and hopes to address the question which field of mathematics concerns itself with this situation Readers interested in either mathematics or tabletop games will find this book an engaging way to begin exploring the other topic or the connection between the topics Features Presents an entry level exposition of interesting mathematical concepts that are not commonly taught outside of upper level mathematics courses Acts as a resource for mathematics instructors who wish to provide new examples of standard mathematical concepts Features material that may help game designers and developers make design decisions about game mechanisms Provides working Python code that can be used to solve common questions about games Covers a broad range of mathematical topics that could be used as survey material for

undergraduates curious about mathematics      *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      **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

**Mathematicians Playing Games** Jon-Lark Kim, 2023-12-14 *Mathematicians Playing Games* explores a wide variety of popular mathematical games including their historical beginnings and the mathematical theories that underpin them Its academic level is suitable for high school students and higher but people of any age or level will find something to entertain them and something new to learn It would be a fantastic resource for high school mathematics classrooms or undergraduate mathematics for liberal arts course and belongs on the shelf of anyone with an interest in recreational mathematics Features Suitable for anyone with an interest in games and mathematics and could be especially useful to middle and high school students and their teachers Includes various exercises for fun for readers      **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 [Electronic String Art](#) Stephen Erfle,2024-02-20 String art is a well known and popular activity that uses string a board and nails to produce artistic images although there are variations that use different modalities This activity is beloved because simple counting rules are used to create beautiful images that can both adorn walls and excite young minds The downside of this highly tactile activity is that it is quite time consuming and rigid By contrast electronic string art offers much more flexibility to set up or change nail locations and counting rules and the images created from those changes change instantaneously Electronic String Art Rhythmic Mathematics invites readers to use the author s digital resources available on the ESA website to play with the parameters inherent in string art models while offering concise accessible explanations of the underlying mathematical principles regarding how the images were created and how they change Readers will have the opportunity to create visually beautiful works of art while learning concepts from geometry number theory and modular arithmetic from approximately 200 short interdependent sections Features Readers are able to drill down on images in order to understand why they work using short 1 to 2 page stand alone sections Sections are lessons that were created so that they could be digested in a single sitting These sections are stand alone in the sense that they need not be read sequentially but can be referred to based on images that the reader finds interesting An open ended inherently flexible teaching resource for elementary middle and high school level mathematics The most mathematically challenging sections or portions of a section are designated MA and may not be accessible to elementary and middle school readers Will be appreciated by anyone interested in recreational mathematics or mathematical artworks even if the users are not interested in the underlying mathematics Includes exercises solutions and many online digital resources These QR codes take you to these digital resources One takes you directly to the web version of the string art model used as a starting point for teaching the parameters of the model in Section 25 5 The other takes you to the ESA web page with additional links to a variety of resources [The Baseball Mysteries](#) Jerry Butters,Jim Henle,2023-05-18 The Baseball Mysteries Challenging Puzzles for Logical Detectives is a book of baseball puzzles logical baseball puzzles To jump in all you need is logic and a casual fan s knowledge of the game The puzzles are solved by reasoning from the rules of the game and a few facts The logic in the puzzles is like legal reasoning A solution must argue from evidence the facts and law the rules Unlike legal arguments however a solution must reach an unassailable conclusion There are many puzzle books But there s nothing remotely like this book The puzzles here while rigorously deductive are firmly attached to actual events to struggles that are reported in the papers every day The puzzles offer a unique and scintillating connection between abstract logic and gritty reality Actually this book offers the reader an unlimited number of puzzles Once you ve solved a few of the challenges here every boxscore you see in the papers or online is a new puzzle It can

be anywhere from simple to complex to impossible For anyone who enjoys logical puzzles For anyone interested in legal reasoning For anyone who loves the game of baseball Jerry Butters has a BA in mathematics from Oberlin College and an MS in mathematics and a PhD in economics from the University of Chicago He taught mathematics for two years at Mindanao State University in the Philippines as a Peace Corps volunteer He taught economics for five years at Princeton University For most of his career he worked on consumer protection cases and policy issues at the Federal Trade Commission In his retirement he has become a piano teacher and performer He enjoys hobbies ranging from reading Chinese to practicing Taiji This book is an outgrowth of another of his hobbies his love of designing and solving puzzles of all sorts Jim Henle has a BA in mathematics from Dartmouth College and a PhD from M I T He taught for two years at U P Baguio in the Philippines as a Peace Corps volunteer two years at a middle school as alternative service and 42 years at Smith College His research is primarily in logic and set theory with additional papers in geometry graph theory number theory games economics and music He edited columns for The Mathematical Intelligencer He authored or co authored five books His most recent book The Proof and the Pudding compares mathematics and gastronomy He has collaborated with Jerry on puzzle papers and chamber music concerts

**A Stitch in Line** Katherine Seaton,2024-11-29 A Stitch in Line Mathematics and One Stitch Sashiko provides readers with instructions for creating hitomezashi items with minimum outlay The reader is guided through the practical steps involved in creating each design and then the mathematics which underpins it is explained in a friendly accessible way This is a fantastic book for anyone who is interested in recreational mathematics and or fibre arts and can be a useful resource for teaching and learning mathematical concepts in a fun and engaging format Features Numerous full colour photographs of hitomezashi stitch patterns which have been mathematically designed Suitable for readers of all mathematical levels and backgrounds no prior knowledge is automatically assumed A compressed encoding for recording and designing hitomezashi patterns to be stitched or drawn Accessible explanations and explorations of mathematical concepts inherent in or illustrated by hitomezashi patterns

**Design Techniques for Origami Tessellations** Yohei Yamamoto,Jun Mitani,2023-11-09 Design Techniques for Origami Tessellations is both a collection of origami tessellations and a manual to design them This book begins by explaining general design methods the history and definitions of origami tessellations and the geometric features of flat origami before moving on to introduce a brand new design method the twist based design method This method generates base parts that connect twist patterns that can be folded with a twist without using a lattice Therefore it can generate base parts such as regular pentagons which cannot be generated with more conventional methods and can generate new origami tessellations connected to them Features No proofs or formulas in the text and minimal jargon Suitable for readers with a roughly middle school to high school level of mathematical background Web application implementing the method described in this book is available allowing the readers to design their own patterns

*Puzzle and Proof* Samuel Dittmer,Hiram Golze,Grant Molnar,Caleb Stanford,2024-08-13 Puzzle and Proof A



Decade of Problems from the Utah Math Olympiad is a compilation of the problems and solutions for the first 10 years of the Utah Math Olympiad. The problems are challenging but should be understandable at a high school level. Besides putting all problems in one place, 70 in total, which have not previously appeared in print, the book provides additional inspiration for many of the problems and will contain the first published solutions for 10 problems that were originally published on the contest flyer. The book will be a fantastic resource for anyone who enjoys mathematical and/or logic puzzles or is interested in studying for mathematics competitions. Features: 70 carefully designed high quality high school level math proof problems with full solutions. Detailed pictures and diagrams throughout to aid understanding. Suitable for anyone with high school level mathematics skills with an interest in furthering their understanding or just enjoying the puzzles. Solutions in the back of the book, sorting the problems by difficulty and topic.

**Playing with Infinity** Hans Zantema, 2024-04-22. This is a book about infinity, specifically the infinity of numbers and how one kind of infinity is greater than all the rest. Along the way, the author will demonstrate how infinity can be made to create beautiful art and how this process can help us to understand the fundamental nature of numbers. This book will provide a fascinating read for anyone interested in number theory, infinity, math art, and/or generative art and could be used as a valuable supplement to any course on these topics. Features: Beautiful examples of generative art. Accessible to anyone with a reasonable high school level of mathematics. Full of challenges and puzzles to engage readers.

**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.

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## **Table of Contents Basic Gambling Mathematics The Numbers Behind The Neon**

1. Understanding the eBook Basic Gambling Mathematics The Numbers Behind The Neon
  - The Rise of Digital Reading Basic Gambling Mathematics The Numbers Behind The Neon
  - Advantages of eBooks Over Traditional Books
2. Identifying Basic Gambling Mathematics The Numbers Behind The Neon
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Basic Gambling Mathematics The Numbers Behind The Neon
  - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Gambling Mathematics The Numbers Behind The Neon
  - Personalized Recommendations
  - Basic Gambling Mathematics The Numbers Behind The Neon User Reviews and Ratings
  - Basic Gambling Mathematics The Numbers Behind The Neon and Bestseller Lists
5. Accessing Basic Gambling Mathematics The Numbers Behind The Neon Free and Paid eBooks
  - Basic Gambling Mathematics The Numbers Behind The Neon Public Domain eBooks
  - Basic Gambling Mathematics The Numbers Behind The Neon eBook Subscription Services

- Basic Gambling Mathematics The Numbers Behind The Neon Budget-Friendly Options
- 6. Navigating Basic Gambling Mathematics The Numbers Behind The Neon eBook Formats
  - ePub, PDF, MOBI, and More
  - Basic Gambling Mathematics The Numbers Behind The Neon Compatibility with Devices
  - Basic Gambling Mathematics The Numbers Behind The Neon Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Basic Gambling Mathematics The Numbers Behind The Neon
  - Highlighting and Note-Taking Basic Gambling Mathematics The Numbers Behind The Neon
  - Interactive Elements Basic Gambling Mathematics The Numbers Behind The Neon
- 8. Staying Engaged with Basic Gambling Mathematics The Numbers Behind The Neon
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Basic Gambling Mathematics The Numbers Behind The Neon
- 9. Balancing eBooks and Physical Books Basic Gambling Mathematics The Numbers Behind The Neon
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Basic Gambling Mathematics The Numbers Behind The Neon
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Basic Gambling Mathematics The Numbers Behind The Neon
  - Setting Reading Goals Basic Gambling Mathematics The Numbers Behind The Neon
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Basic Gambling Mathematics The Numbers Behind The Neon
  - Fact-Checking eBook Content of Basic Gambling Mathematics The Numbers Behind The Neon
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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