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extensive postscript and bibliography from Gardner updating the columns      **Mathematical Puzzles and Diversions from Scientific American** Martin Gardner, 1961      *Mathematical Quickies & Trickies* Yan Kow Cheong, 2014-10-17 Singapore s bestselling Mathematical Quickies mathletes preparing for local and regional contests and competitions problem solvers longing to be challenged by questions whose obvious solutions are never the correct ones for what offhand appears to be true is false With proper insight you ll learn how to solve these tricky problems almost instantly whose solutions are almost never the correct ones You need no longer be caught off guard instead you ll learn to solve these questions confidently how to tame these counter intuitive questions into routine ones Contents 1 Mental Computation I 2 Mental Computation 2 3 Number Series 4 A Tricky Way with Fractions 5 Test Your Calculator Proficiency 6 Simplifying a Complex Fraction 7 Recurring Decimals 8 Is Zero an Even or Odd Integer 9 Casting Out Nines 10 Be a Calculator Expert 11 Division by 9 12 Number Riddles 13 Ten Steps to be Math Smart 14 Shortcuts a la Trachtenberg 15 Geometrical Quickies 1 16 Geometrical Quickies 2 17 Geometrical Quickies 3 18 Sugar Coffee Milk Sugar Coffee Milk 19 Applications of Number Laws 20 Law of One 21 Distributive Law 22 More Applications of Distributive Law 23 The Joy of Guesstimation 24 Are You a Fermi Disciple 25 Bravo Singapore 26 Lightning Calculators 27 Geometrical Quickies 4 28 Some Calculator Quickies Answers Solutions Bibliography References Type of e book Nonfiction problem solving recreational Singapore math trick questions Audiences Suitable for Grades 4 7 or Primary 4 7 levels      **The 2nd Scientific American Book of Mathematical Puzzles & Diversions, a New Selection** Martin Gardner, 1961 Mathematical puzzles from origami to recreational logic from digital roots and dudeny puzzles to the diabolic square from the golden ratio to the generalized ham sandwich theorem      **Topics in Contemporary Probability and Its Applications** J. Laurie Snell, 1995-04-18 Probability theory has grown from a modest study of simple games of chance to a subject with application in almost every branch of knowledge and science In this exciting book a number of distinguished probabilists discuss their current work and applications in an easily understood manner Chapters show that new directions in probability have been suggested by the application of probability to other fields and other disciplines of mathematics The study of polymer chains in chemistry led to the study of self avoiding random walks the study of the Ising model in physics and models for epidemics in biology led to the study of the probability theory of interacting particle systems The stochastic calculus has allowed probabilists to solve problems in classical analysis in theory of investment and in engineering The mathematical formulation of game theory has led to new insights into decisions under uncertainty These new developments in probability are vividly illustrated throughout the book      *The Scientific American Book of Mathematical Puzzles & Diversions* Martin Gardner, 1959      *Classic Problems of Probability* Prakash Gorroochurn, 2016-05-02 Winner of the 2012 PROSE Award for Mathematics from The American Publishers Awards for Professional and Scholarly Excellence A great book one that I will certainly add to my personal library Paul J Nahin Professor Emeritus of Electrical Engineering University of New Hampshire Classic Problems of Probability presents a lively account of

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Solving Puzzles with Neural Creativity Marcel Danesi, 2025-06-13 This book takes an in depth look at the tradition of solving puzzles and considers the psychological cause and effect of the Aha moment that familiar flash of sudden insight Everyone loves a good puzzle but why is this so Is it because puzzles provide a form of escapism from the routines of daily life Or do they reveal something fundamental or perhaps even primal about human cognition and consciousness In this book Marcel Danesi considers the importance of puzzles to the study of mind and culture and explores how they stimulate creative regions of the brain Danesi explores the history of classic puzzles across time and cultural spaces and examines the psychological link between puzzle solving mental imagery and visualization He takes an in depth look at the difference between puzzles and games based on systematic reasoning as well as the role of language meaning and structure in the solving of riddles Overall the book puts forward the idea that puzzles provide cognitive data on how the brain might function when processing information via the neurocircuitry that supports creativity Examining all kinds of puzzles including verbal nonverbal and mathematical Solving Puzzles with Neural Creativity will be of great interest to students and scholars of psychology cognitive science neuroscience and anthropology

Paradoxes , Wheels, Life and Other Mathematical Amusements Martin Gardner, 2020-10-06 Martin Gardner s Mathematical Games columns in Scientific American inspired and entertained several generations of mathematicians and scientists Gardner in his crystal clear prose illuminated corners of mathematics especially recreational mathematics that most people had no idea existed His playful spirit and inquisitive nature invite the reader into an exploration of beautiful mathematical ideas along with him These columns were both a revelation and a gift when he wrote

them no one before Gardner had written about mathematics like this They continue to be a marvel This is the original 1983 edition and contains columns published from 1970 1972 It includes three columns on the game of Life     *Aha! A Two Volume Collection* Martin Gardner, 2006-12-14 A collection of puzzles that challenge reasoning power and intuition and help develop problem solving ability     *The Game's Afoot! Game Theory in Myth and Paradox* Alexander Mehlmann, 2000 It all started with von Neumann and Morgenstern half a century ago Their Theory of Games and Economic Behavior gave birth to a whole new area of mathematics concerned with the formal problems of rational decision as experienced by multiple agents Now game theory is all around us making its way even into regular conversations In the present book Mehlmann presents mathematical foundations and concepts illustrated via social quandaries mock political battles evolutionary confrontations economic struggles and literary conflict Most of the standard models the prisoners dilemma the arms race evolution duels the game of chicken etc are here Many non standard examples are also here the Legend of Faust shootouts in the movies the Madness of Odysseus to name a few The author uses familiar formulas fables and paradoxes to guide readers through what he calls the hall of mirrors of strategic decision making His light hearted excursion into the world of strategic calculation shows that even deep insights into the nature of strategic thought can be elucidated by games puzzles and diversions Originally written in German and published by Vieweg Verlag this AMS edition is a translation tailored for the English speaking reader It offers an intriguing look at myths and paradoxes through the lens of game theory bringing the mathematics into sharper focus at the same time This book is a must for those who wish to consider game theory from a different perspective one that embraces science literature and real life conflict *The Game's Afoot* would make an excellent book for an undergraduate course in game theory It can also be used for independent study or as supplementary course reading The connections to literature films and everyday life also make it highly suitable as a text for a challenging course for non majors Its refreshing style and amusing combination of game theoretic analysis and cultural issues even make it appealing as recreational reading     *A Panorama of Statistics* Eric Sowe, Peter Petocz, 2017-01-30 This book is a stimulating panoramic tour quite different from a textbook journey of the world of statistics in both its theory and practice for teachers students and practitioners At each stop on the tour the authors investigate unusual and quirky aspects of statistics highlighting historical biographical and philosophical dimensions of this field of knowledge Each chapter opens with perspectives on its theme often from several points of view Five original and thought provoking questions follow These aim at widening readers knowledge and deepening their insight Scattered among the questions are entertaining puzzles to solve and tantalising paradoxes to explain Readers can compare their own statistical discoveries with the authors detailed answers to all the questions The writing is lively and inviting the ideas are rewarding and the material is extensively cross referenced *A Panorama of Statistics* Leads readers to discover the fascinations of statistics Is an enjoyable companion to an undergraduate statistics textbook Is an enriching source of knowledge for statistics teachers and practitioners Is unique

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