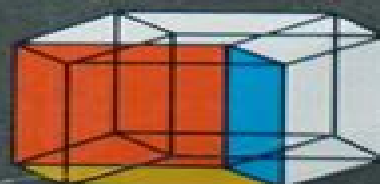
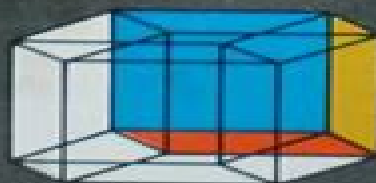
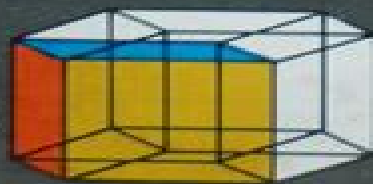
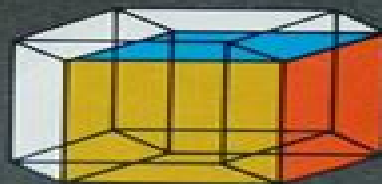
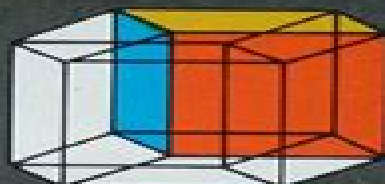
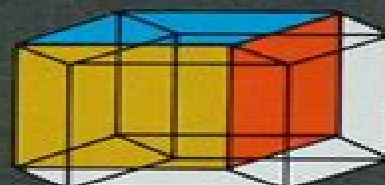


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Martin Gardner



Mathematical Carnival

Clifford A. Pickover



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The Early Mathematics of Leonhard Euler C. Edward Sandifer, 2020-07-14 The Early Mathematics of Leonhard Euler gives an article by article description of Leonhard Euler's early mathematical works: the 50 or so mathematical articles he wrote before he left St. Petersburg in 1741 to join the Academy of Frederick the Great in Berlin. These early pieces contain some of Euler's greatest work: the Königsberg bridge problem, his solution to the Basel problem, and his first proof of the Euler-Fermat theorem. It also presents important results that we seldom realize are due to Euler: that mixed partial derivatives are usually equal, our $f(x, y)$ notation, and the integrating factor in differential equations. The book shows how contributions in diverse fields are related: how number theory relates to series which in turn relate to elliptic integrals and then to differential equations. There are dozens of such strands in this beautiful web of mathematics. At the same time we see Euler grow in power and sophistication from a young student when at 18 he published his first work on differential equations, a paper with a serious flaw, to the most celebrated mathematician and scientist of his time. It is a portrait of the world's most exciting mathematics between 1725 and 1741, rich in technical detail, woven with connections within Euler's work and with the work of other mathematicians in other times and places, laced with historical context. Beautiful Mathematics Martin Erickson, 2011-12-22 Mathematical ideas have an aesthetic appeal that can be appreciated by anyone who has the time and dedication to investigate. Mathematical topics are presented in the categories of words, images, formulas, theorems, proofs, solutions, and unsolved problems. Readers will discover exciting mathematics topics from complex numbers to arithmetic progressions, from Alcuin's sequence to the zeta function, and from hypercubes to infinity squared. Who should read this book? There is something new for any mathematically minded person. High school and college students will find motivation for their mathematical studies. Professional mathematicians will find fresh examples of mathematical beauty to pass along to others. Within each chapter the topics require progressively more prerequisite knowledge. An appendix gives background definitions and theorems while another gives challenging exercises with solutions. The Edge of the Universe Deanna

Haunsperger, Stephen Kennedy, 2006 Beautifully printed with 24 pages of full color Ideal for Math Clubs Math Horizons is a magazine that celebrates the people and ideas which are mathematics Containing the editor's selections from the first ten years of the magazine's existence this volume features exquisite expositions of undergraduate level mathematics Broad and appealing the coverage also includes fiction with mathematical themes literary theatrical and cinematic criticism humor history and social history Mathematics is shown as a human endeavor through biographies and interviews of mathematicians and users of mathematics including artists writers and scientists The puzzles games and activities throughout make it a valuable resource for student math clubs Though especially appealing to students of mathematics from high school to graduate school and their teachers this collection is an eclectic and wide ranging look at the culture of mathematics and offers enjoyable reading for anyone with an interest in mathematics

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Lobachevski Illuminated Seth Braver, 2011-12-31 Recipient of the Mathematical Association of America's Beckenbach Book Prize in 2015 Lobachevski Illuminated provides an historical introduction to non Euclidean geometry Within its pages readers will be guided step by step through a new translation of Lobachevski's groundbreaking book The Theory of Parallels Extensive commentary situates Lobachevski's work in its mathematical historical and philosophical context thus granting readers a vision of the mysterious and beautiful world of non Euclidean geometry as seen through the eyes of one of its discoverers Although Lobachevski's 170 year old text is challenging to read on its own Seth Braver's carefully arranged illuminations render this classic accessible to any modern reader student professional or layman undaunted by high school mathematics

A Historian Looks Back Judith V. Grabiner, 2010-10-14 Judith Grabiner has written extensively on the history of mathematics principally for mathematicians rather than historians This collection of her work highlights the benefits of studying the development of mathematical ideas and the relationship between culture and mathematics She also considers the struggles and successes of famous mathematicians with the aim of inspiring students and teachers alike A large part of this book is the author's The Calculus as

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Genius at Play Siobhan Roberts,2024-10-29 A multifaceted biography of a brilliant mathematician and iconoclast A mathematician unlike any other John Horton Conway 1937 2020 possessed a rock star s charisma a polymath s promiscuous curiosity and a sly sense of humor Conway found fame as a barefoot professor at Cambridge where he discovered the Conway groups in mathematical symmetry and the aptly named surreal numbers He also invented the cult classic Game of Life a cellular automaton that demonstrates how simplicity generates complexity and provides an analogy for mathematics and the entire universe Moving to Princeton in 1987 Conway used ropes dice pennies coat hangers and the occasional Slinky to illustrate his winning imagination and share his nerdish delights *Genius at Play* tells the story of this ambassador at large for the beauties and joys of mathematics lays bare Conway s personal and professional idiosyncrasies and offers an intimate look into the mind of one of the twentieth century s most endearing and original intellectuals *The Universal Book of Mathematics* David Darling,2008-04-21 Praise for David Darling *The Universal Book of Astronomy* A first rate resource for readers and students of popular astronomy and general science Highly recommended Library Journal A comprehensive survey and a rare treat Focus *The Complete Book of Spaceflight* Darling s content and presentation will have any reader moving from entry to entry *The Observatory* magazine *Life Everywhere* This remarkable book exemplifies the best of today s popular science writing it is lucid informative and thoroughly enjoyable Science Books Films An enthralling introduction to the new science of astrobiology Lynn Margulis *Equations of Eternity* One of the clearest and most eloquent expositions of the quantum conundrum and its philosophical and metaphysical implications that I have read recently The New York Times *Deep Time* A wonderful book The perfect overview of the universe Larry Niven [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 Puzzle Instinct** Marcel Danesi,2004-02-20 Humans are the only animals who create and solve puzzles for the sheer pleasure of it and there is no obvious genetic reason why we would do this Marcel Danesi explores the psychology of puzzles and puzzling with scores of classic examples His pioneering book is both entertaining and enlightening Will Shortz Crossword Editor The New York Times Puzzle fanatics will enjoy the many riddles illusions cryptograms and other mind benders offered for analysis Psychology Today a bristlingly clear always intriguing survey of the history and rationale of puzzles A splendid study Knight Ridder Newspapers **There Is No One Way to Teach Math** Henri Picciotto,Robin Pemantle,2024-09-10 A collaboration between a seasoned math teacher and a research mathematician this resource offers balanced instructional ideas based on student intellectual engagement and skilled teacher leadership It is solidly grounded in

many areas of classroom practice but rather than serving as a prescriptive how to manual the authors invite reflection and discussion across classrooms and math departments much in the way you would share ideas in the teachers lounge or across the table at a conference Chapters offer practical suggestions and concrete examples to teachers of grades 6 12 on just about every aspect of the job manipulatives technology lesson planning group work classroom discussion and more In opposition to the idea of a one size fits all curriculum the authors explain how to integrate teaching techniques formal and informal student centered and teacher led experiential and rigorous Chapters also include vignettes as well as many links to curricular materials Ideal for math educators of grades 6 12 this book is both comprehensive in its strategies and sensitive to the complexities of teaching For these reasons math departments coaches teacher leaders and faculty at other levels can also easily reference its content where relevant This book offers multiple entry points for teachers and departments to discuss and enhance their practice making it essential reading for any math educator or professional development opportunity

History of Mathematics: Highways and Byways Amy Dahan-Dalmedico, Jeanne Pieffer, 2020-08-03 A translation of the original 1986 French edition by Amy Dahan Dalmedico and Jeanne Peiffer both from Centre National de la Recherche Scientifique Paris this eminently readable book places the birth and development of mathematical activity in historical cultural and economic context The book offers an outstanding account for instance of how Arabs preserved Greek mathematics and extended it over an 800 year period from 400 1200 The large number of illustrations supports the text and contributes to a fine read Publisher **The Math Book** Clifford A. Pickover, 2011-09-27 Math s infinite mysteries and beauty unfold in this follow up to the best selling The Science Book Beginning millions of years ago with ancient ant odometers and moving through time to our modern day quest for new dimensions it covers 250 milestones in mathematical history Among the numerous delights readers will learn about as they dip into this inviting anthology cicada generated prime numbers magic squares from centuries ago the discovery of pi and calculus and the butterfly effect Each topic gets a lavishly illustrated spread with stunning color art along with formulas and concepts fascinating facts about scientists lives and real world applications of the theorems Musings of the Masters Raymond Ayoub, 2004 The anthology is a collection of articles written by renowned mathematicians of the twentieth century The articles span roughly a century in time and a wide range in subject They are by mathematicians acknowledged by their peers as outstanding creators whose work has added richly to the discipline

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