

Penguin Dictionary Of Curious And Interesting Numbers

Bruce Pyne

Penguin Dictionary Of Curious And Interesting Numbers:

The Penguin Dictionary of Curious and Interesting Numbers David Wells, 1997-09-04 Why was the number of Hardy's taxi significant Why does Graham's number need its own notation How many grains of sand would fill the universe What is the connection between the Golden Ratio and sunflowers Why is 999 more than a distress call All these questions and a host more are answered in this fascinating book which has now been newly revised with nearly 200 extra entries and some 250 additions to the original entries From minus one and its square root via cyclic weird amicable perfect untouchable and lucky numbers aliquot sequences the Cattle problem Pascal's triangle and the Syracuse algorithm music magic and maps pancakes polyhedra and palindromes to numbers so large that they boggle the imagination all you ever wanted to know about numbers is here There is even a comprehensive index for those annoying occasions when you remember the name but can t recall the number Penguin Dictionary of Curious and Interesting Numbers D. G. Wells, 1998-05-01 Provides information on numbers and what makes particular ones noteworthy The Penguin Dictionary of Curious and Interesting Geometry David G. Wells, 1991 A companion volume to the author's Dictionary of Curious and Interesting Numbers which focuses on arithmetic and number theory The entries in this book cover curves topology tilings and all branches of plane and three dimensional geometry from Euclid to fractals **Thinking about G**□**del and Turing** Gregory J. Chaitin,2007 Dr Gregory Chaitin one of the world's leading mathematicians is best known for his discovery of the remarkable number a concrete example of irreducible complexity in pure mathematics which shows that mathematics is infinitely complex In this volume Chaitin discusses the evolution of these ideas tracing them back to Leibniz and Borel as Well as G del and Turing This book contains 23 non technical papers by Chaitin his favorite tutorial and survey papers including Chaitin's three Scientific American articles These essays summarize a lifetime effort to use the notion of program size complexity or algorithmic information content in order to shed further light on the fundamental work of G del and Turing on the limits of mathematical methods both in logic and in computation Chaitin argues here that his information theoretic approach to metamathematics suggests a quasi empirical view of mathematics that emphasizes the similarities rather than the differences between mathematics and physics He also develops his own brand of digital philosophy which views the entire universe as a giant computation and speculates that perhaps everything is discrete software everything is 0 s and 1 s Chaitin s fundamental mathematical work will be of interest to philosophers concerned with the limits of knowledge and to physicists interested in Exploring the Beauty of Fascinating Numbers Shyam Sunder Gupta, 2025-03-07 This book is a the nature of complexity great treasure for everyone who enjoys the beauty of the fascinating world of recreational mathematics It focuses on recreational aspects of numbers to create interest and motivate readers to learn to be creative in improving their problem solving techniques The book would help ignite interest in numbers which will benefit teachers trying to teach math especially to students who don t like math by supplementing their regular curriculum with the module containing material from the

book which provides an opportunity for fun and joy while developing mathematical skills The ideas for further exploration given in the book offer food for thought to delve into the world of research and fun in addition to testing computational skills The book communicates the excitement and fascination of numbers to the students in schools and colleges The theory behind the subject matter has been kept to a minimum to retain the recreational nature of the book The book has a delightful coverage of numerical curiosities coincidences and wonders revealing many new eye opening properties of numbers Organized into 23 chapters the book contains a large variety of topics digital root wonders the elegance of squares triangular numbers Smith numbers amicable numbers perfect multiple perfect and sociable numbers happy numbers Fibonacci numbers Lucas numbers and the Golden ratio Kaprekar numbers self numbers repunit numbers equal product of reversible numbers EPRNs rare numbers fascinating factorials Ulam numbers mystery of cab and vampire numbers digital invariants and narcissistic numbers special numbers like autobiographical numbers Harshad numbers parasite numbers polydivisible numbers Ramanujan numbers number curiosities such as lucky mistakes Pascal s triangle and Pythagorean triplets Pythagoras attributed mystical qualities to some of the numbers Even the religious properties of numbers were extensively studied So four chapters are exclusively devoted to such numbers namely the amazing number 108 the unlucky 13 the beauty of 153 and the number of the beast with lots of new curiosities and miraculous coincidences Numberama Recreational Number Theory In The School System Elliot Benjamin, 2017-06-23 Numberama Recreational Number Theory in the School System presents number patterns and mathematical formulas that can be taught to children in schools The number theories and problems are reinforced by enjoyable games that children can play to enhance their learning in a fun loving way Key features of the book include information about a number of well known number theory problems such as Fibonaccci numbers triangular numbers perfect numbers sums of squares and Diophantine equations organized presentation based on skill level for easy understanding all basic mathematical operations for elementary school children a range of algebraic formulae for middle school students descriptions of positive feedback and testimonials where recreational number theory has been effective in schools and education programs This book is a useful handbook for elementary and middle school teachers students and parents who will be able to experience the inherent joys brought by teaching number theory to children in a recreational way Trilogy Of Numbers And Arithmetic - Book 1: History Of Numbers And Arithmetic: An **Information Perspective** Mark Burgin, 2022-04-22 The book is the first in the trilogy which will bring you to the fascinating world of numbers and operations with them Numbers provide information about myriads of things Together with operations numbers constitute arithmetic forming in basic intellectual instruments of theoretical and practical activity of people and offering powerful tools for representation acquisition transmission processing storage and management of information about the world The history of numbers and arithmetic is the topic of a variety of books and at the same time it is extensively presented in many books on the history of mathematics However all of them at best bring the reader to the end of the 19th

century without including the developments in these areas in the 20th century and later Besides such books consider and describe only the most popular classes of numbers such as whole numbers or real numbers At the same time a diversity of new classes of numbers and arithmetic were introduced in the 20th century This book looks into the chronicle of numbers and arithmetic from ancient times all the way to 21st century It also includes the developments in these areas in the 20th century and later A unique aspect of this book is its information orientation of the exposition of the history of numbers and Number Treasury 3: Investigations, Facts And Conjectures About More Than 100 Number Families (3rd arithmetic Edition) Margaret J Kenney, Stanley J Bezuszka, 2015-06-18 This resource volume is an enlargement as well as an update of the previous edition The book aims to introduce the reader to over 100 different families of positive integers A brief historical note accompanies the descriptions and examples of several of the families together with a mix of routine exercises and problems as well as some thought provokers to solve Number Treasury3 especially aims to stimulate further study beyond the scope of the introductory treatment given in the book The emphasis in Number Treasury3 is on doing not proving However the reader is directed to think critically about situations to provide explanations to make generalizations and to formulate conjectures To engage the reader from the start the book begins with a set of rich Investigations These are standalone activities that represent each of the chapters of the book Teaching Mathematics Using ICT Adrian Oldknow, Ron Taylor, Linda Tetlow, 2010-04-08 This fully updated third edition of Teaching Mathematics using ICT incorporates all the most recent developments in mathematics education including the new National Curriculum and recent Ofsted maths report The authors also bring the hardware and software sections of the book right up to date as well as telling you where to find all the best free resources The book reflects the shift in focus to personalized learning and cross curricular approaches and suggested answers to the reflective questions peppered throughout the text are featured on the book s dedicated website This user friendly book is the definitive guide to using ICT to teach mathematics and will be a valuable resource for all secondary school maths teachers and trainees Nice Numbers John Barnes, 2016-11-25 In this intriguing book John Barnes takes us on a journey through aspects of numbers much as he took us on a geometrical journey in Gems of Geometry Similarly originating from a series of lectures for adult students at Reading and Oxford University this book touches a variety of amusing and fascinating topics regarding numbers and their uses both ancient and modern The author informs and intrigues his audience with both fundamental number topics such as prime numbers and cryptography and themes of daily needs and pleasures such as counting one s assets keeping track of time and enjoying music Puzzles and exercises at the end of each lecture offer additional inspiration and numerous illustrations accompany the reader Furthermore a number of appendices provides in depth insights into diverse topics such as Pascal s triangle the Rubik cube Mersenne's curious keyboards and many others A theme running through is the thought of what is our favourite number Written in an engaging and witty style and requiring only basic school mathematical knowledge this book will appeal to both

young and mature readers fascinated by the curiosities of numbers The Loom of God Clifford A. Pickover, 2010-08-17 From the mysterious cult of Pythagoras to the awesome mechanics of Stonehenge to the gargovles and fractals on today s computers mathematics has always been a powerful even divine force in the world In a lively intelligent synthesis of math mysticism and science fiction Clifford Pickover explains the eternal magic of numbers Taking a uniquely humorous approach he appoints readers Chief Historian of an intergalactic museum and sends them along with a quirky cast of characters hurtling through the ages to explore how individuals used numbers for such purposes as predicting the end of the world finding love and winning wars **CRC Concise Encyclopedia of Mathematics** Eric W. Weisstein, 2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the d Mathematical Bridge, A: An Intuitive **Journey In Higher Mathematics (2nd Edition)** Stephen Fletcher Hewson, 2009-01-20 Although higher mathematics is beautiful natural and interconnected to the uninitiated it can feel like an arbitrary mass of disconnected technical definitions symbols theorems and methods An intellectual gulf needs to be crossed before a true deep appreciation of mathematics can develop This book bridges this mathematical gap It focuses on the process of discovery as much as the content leading the reader to a clear intuitive understanding of how and why mathematics exists in the way it does The narrative does not evolve along traditional subject lines each topic develops from its simplest intuitive starting point complexity develops naturally via questions and extensions Throughout the book includes levels of explanation discussion and passion rarely seen in traditional textbooks The choice of material is similarly rich ranging from number theory and the nature of mathematical thought to quantum mechanics and the history of mathematics It rounds off with a selection of thought provoking and stimulating exercises for the reader Prime Recreations Bruce Pyne, 2019-01-04 Bruce has created a work totally unique among books of this type He chose to number his chapters with prime numbers and cover material not seen anywhere else Particularly interesting are his chapters on digit patterns and primes forming triangles Nearly half of the length of the book is devoted to eleven a prime number chapters of lists of primes Here the reader will find a delightful and motley m lange of unlikely subjects many with clever titles and all alphabetically arranged Included are primes in sports stock market primes prime temperatures and prime Zip codes The final section of the book which the author designates as Part C contains a complete cross reference of primes found in the book additional tables a glossary a fairly extensive bibliography and a multisection index Any lover of primes and lists should add this book to their personal library The Man Who Loved Only Numbers Paul Hoffman, 2024-05-07 A funny marvelously readable portrait of one of the most brilliant and eccentric men in history The Seattle Times Paul Erdos was an amazing and prolific mathematician whose life as a world wandering numerical nomad was legendary He published almost 1500 scholarly papers before his death in 1996 and he probably thought more about math

problems than anyone in history Like a traveling salesman offering his thoughts as wares Erdos would show up on the doorstep of one mathematician or another and announce My brain is open After working through a problem he d move on to the next place the next solution Hoffman's book like Sylvia Nasar's biography of John Nash A Beautiful Mind reveals a genius s life that transcended the merely quirky But Erdos s brand of madness was joyful unlike Nash s despairing schizophrenia Erdos never tried to dilute his obsessive passion for numbers with ordinary emotional interactions thus avoiding hurting the people around him as Nash did Oliver Sacks writes of Erdos A mathematical genius of the first order Paul Erdos was totally obsessed with his subject he thought and wrote mathematics for nineteen hours a day until the day he died He traveled constantly living out of a plastic bag and had no interest in food sex companionship art all that is usually indispensable to a human life The Man Who Loved Only Numbers is easy to love despite his strangeness It s hard not to have affection for someone who referred to children as epsilons from the Greek letter used to represent small quantities in mathematics a man whose epitaph for himself read Finally I am becoming stupider no more and whose only really necessary tool to do his work was a quiet and open mind Hoffman who followed and spoke with Erdos over the last 10 years of his life introduces us to an undeniably odd yet pure and joyful man who loved numbers more than he loved God whom he referred to as SF for Supreme Fascist He was often misunderstood and he certainly annoyed people sometimes but Paul Erdos is no doubt missed Therese **Discrete Encounters** Craig Bauer, 2020-05-14 Eschewing the often standard dry and static writing style of Littleton traditional textbooks Discrete Encounters provides a refreshing approach to discrete mathematics The author blends traditional course topics and applications with historical context pop culture references and open problems This book focuses on the historical development of the subject and provides fascinating details of the people behind the mathematics along with their motivations deepening readers appreciation of mathematics. This unique book covers many of the same topics found in traditional textbooks but does so in an alternative entertaining style that better captures readers attention In addition to standard discrete mathematics material the author shows the interplay between the discrete and the continuous and includes high interest topics such as fractals chaos theory cellular automata money saving financial mathematics and much more Not only will readers gain a greater understanding of mathematics and its culture they will also be encouraged to further explore the subject Long lists of references at the end of each chapter make this easy Highlights Features fascinating historical context to motivate readers Text includes numerous pop culture references throughout to provide a more engaging reading experience Its unique topic structure presents a fresh approach The text's narrative style is that of a popular book not a dry textbook Includes the work of many living mathematicians Its multidisciplinary approach makes it ideal for liberal arts mathematics classes leisure reading or as a reference for professors looking to supplement traditional courses Contains many open problems Profusely illustrated <u>Unsolved Problems in Number Theory</u> Richard Guy, 2013-03-09 Mathematics is kept alive by the appearance of new unsolved problems problems posed from within mathematics itself and also from the

increasing number of disciplines where mathematics is applied This book provides a steady supply of easily understood if not easily solved problems which can be considered in varying depths by mathematicians at all levels of mathematical maturity For this new edition the author has included new problems on symmetric and asymmetric primes sums of higher powers Diophantine m tuples and Conway s RATS and palindromes The author has also included a useful new feature at the end of several of the sections lists of references to OEIS Neil Sloane's Online Encyclopedia of Integer Sequences About the first Edition many talented young mathematicians will write their first papers starting out from problems found in this book Andr The Magic Numbers of the Professor Owen O'Shea, Underwood Dudley, 2007-03-08 Numerical s S rk zi MathSciNet curiosities ranging from coincidences and the first moon walk to proposition bets involving dice and cards and Teaching of Number Rina Zazkis, John Mason, Igor' Kontorovich, 2021-05-23 Numbers are the backbones of mathematics From 1 to infinity numbers accompany and underlie the learning of mathematics and research While perceived as familiar and understood numbers present fascinating and often mysterious patterns relationships and pedagogical issues The Learning and Teaching of Number explores how mathematics education research has addressed issues related to the structure of numbers and number operations and provides a classroom context It invites readers to explore less travelled paths through a well trodden terrain of number This fascinating book combines mathematical content with pedagogical ideas and research results Focusing on number the book illustrates central ideas related to numbers via a variety of tasks at different levels of complexity The Learning and Teaching of Number will allow the reader to examine and develop personal understanding of number sets and the relationships among them enhance personal understanding of familiar topics associated with number operations engage in a variety of tasks and strengthen personal problem solving skills enrich their repertoire of mathematical tasks and pedagogical actions and consider research ideas and results related to teaching numbers number operations and number relationships This is a valuable resource for teacher education courses graduate programs in mathematics education and professional development programs Teacher trainers and maths teachers will find their personal understanding of numbers and relationships enriched and will draw connections between research and classroom pedagogy which will extend and enhance their teaching **Mathematical Knowledge for Primary Teachers** Andrew Davis, Jennifer Suggate, Maria Goulding, 2010-04-05 Now in its fourth edition the bestselling text Mathematical Knowledge for Primary Teachers provides trainee teachers with clear information about the fundamental mathematical ideas taught in primary schools With rigorous and comprehensive coverage of all the mathematical knowledge primary teachers need the text goes beyond rules and routines to help readers deepen their understanding of mathematical ideas and increase their confidence in teaching these ideas Fully updated to incorporate recommendations of the Williams review new sections are included covering talk for learning in mathematics with an emphasis placed on the language and vocabulary used in arithmetic contexts Throughout the book knowledge is linked to the TDA standards for Qualified Teacher Status and features include Check questions to test the reader's understanding Challenges to increase teachers confidence and stretch their mathematical abilities Links with the classroom to emphasise the relevance of ideas to the classroom context Straightforward coverage from theory to practice for all aspects of the Mathematics framework. The book is accompanied by e resources which contain further visual activities and support designed to scaffold and support the reader's own understanding. Essential reading for all practising and trainee primary teachers this book is ideal for those who wish to increase their mathematical understanding and confidence in presenting mathematics in the classroom

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