Numbers

Book Of Numbers

Shakuntala Devi, the Human Computer, explains and simplifies everything you always wanted to know about numbers but was difficult to understand. This book contains all we ever wanted to know about numbers. Divided in three parts, the first will tells you everything about numbers, the second some anecdotes related with numbers and mathematicians, and the third some important tables that will help you always.

The Book of Numbers

\"...the great feature of the book is that anyone can read it without excessive head scratching...You'll find plenty here to keep you occupied, amused, and informed. Buy, dip in, wallow.\" -IAN STEWART, NEW SCIENTIST \"...a delightful look at numbers and their roles in everything from language to flowers to the imagination.\" -SCIENCE NEWS \"...a fun and fascinating tour of numerical topics and concepts. It will have readers contemplating ideas they might never have thought were understandable or even possible.\" -WISCONSIN BOOKWATCH \"This popularization of number theory looks like another classic.\" -LIBRARY JOURNAL

Making up Numbers: A History of Invention in Mathematics

Making up Numbers: A History of Invention in Mathematics offers a detailed but accessible account of a wide range of mathematical ideas. Starting with elementary concepts, it leads the reader towards aspects of current mathematical research. The book explains how conceptual hurdles in the development of numbers and number systems were overcome in the course of history, from Babylon to Classical Greece, from the Middle Ages to the Renaissance, and so to the nineteenth and twentieth centuries. The narrative moves from the Pythagorean insistence on positive multiples to the gradual acceptance of negative numbers, irrationals and complex numbers as essential tools in quantitative analysis. Within this chronological framework, chapters are organised thematically, covering a variety of topics and contexts: writing and solving equations, geometric construction, coordinates and complex numbers, perceptions of ‘infinity’ and its permissible uses in mathematics, number systems, and evolving views of the role of axioms. Through this approach, the author demonstrates that changes in our understanding of numbers have often relied on the breaking of long-held conventions to make way for new inventions at once providing greater clarity and widening mathematical horizons. Viewed from this historical perspective, mathematical abstraction emerges as neither mysterious nor immutable, but as a contingent, developing human activity. Making up Numbers will be of great interest to undergraduate and A-level students of mathematics, as well as secondary school teachers of the subject. In virtue of its detailed treatment of mathematical ideas, it will be of value to anyone seeking to learn more about the development of the subject.

The Book of Numbers

Illustrated with photos, diagrams and digital imagery, this chronicle searches for the meaning of numbers and explores puzzling aspects of the mathematical world, and the people who made it.

Surreal Numbers

Nearly 30 years ago, John Horton Conway introduced a new way to construct numbers. Donald E. Knuth, in appreciation of this revolutionary system, took a week off from work on The Art of Computer Programming

to write an introduction to Conway's method. Never content with the ordinary, Knuth wrote this introduction as a work of fiction--a novelette. If not a steamy romance, the book nonetheless shows how a young couple turned on to pure mathematics and found total happiness. The book's primary aim, Knuth explains in a postscript, is not so much to teach Conway's theory as \"to teach how one might go about developing such a theory.\" He continues: \"Therefore, as the two characters in this book gradually explore and build up Conway's number system, I have recorded their false starts and frustrations as well as their good ideas. I wanted to give a reasonably faithful portrayal of the important principles, techniques, joys, passions, and philosophy of mathematics, so I wrote the story as I was actually doing the research myself.\"... It is an astonishing feat of legerdemain. An empty hat rests on a table made of a few axioms of standard set theory. Conway waves two simple rules in the air, then reaches into almost nothing and pulls out an infinitely rich tapestry of numbers that form a real and closed field. Every real number is surrounded by a host of new numbers that lie closer to it than any other \"real\" value does. The system is truly \"surreal.\" quoted from Martin Gardner, Mathematical Magic Show, pp. 16--19 Surreal Numbers, now in its 13th printing, will appeal to anyone who might enjoy an engaging dialogue on abstract mathematical ideas, and who might wish to experience how new mathematics is created. 0201038129B04062001

Numbers

Since her mother's death when she was seven, 15-year-old Jem has kept a secret. When her eyes meet someone else's, a number pops into her head-the date on which they will die! Knowing that nothing can last forever, Jem avoids relationships, until she meets Spider, another outsider, and her life takes a happier turn. But on their first day-out together, waiting for a ride on the London Eye, Jem realises something terrible-everyone in the queue has the same number-and her world is about to explode.

Cell Biology by the Numbers

A Top 25 CHOICE 2016 Title, and recipient of the CHOICE Outstanding Academic Title (OAT) Award. How much energy is released in ATP hydrolysis? How many mRNAs are in a cell? How genetically similar are two random people? What is faster, transcription or translation?Cell Biology by the Numbers explores these questions and dozens of others provid

Numbers

This book is about all kinds of numbers, from rationals to octonians, reals to infinitesimals. It is a story about a major thread of mathematics over thousands of years, and it answers everything from why Hamilton was obsessed with quaternions to what the prospect was for quaternionic analysis in the 19th century. It glimpses the mystery surrounding imaginary numbers in the 17th century and views some major developments of the 20th century.

The Magic of Numbers

\"The Magic of Numbers\" was written with two goals in mind: first, to introduce the reader to some of the beauty of numbers--the patterns in their behavior that have fascinated mathematicians for millennia, and some surprising applications of those patterns; second, and equally important, to teach the reader something of the mathematical mode of thought: the feeling of exploration, excitement, and discovery that are part of how mathematics is developed. The book, written originally for the course Quantitative Reasoning 28 that the authors developed and taught at Harvard, draws the reader into the content through an engaging and informal writing style. Example-driven, it reduces to a minimum the abstract notation and formal argument that often creates a barrier between mathematicians and students, focusing more instead on the experimental aspect of the subject. Above all, the authors communicate to the reader a sense of the joy and fascination of learning mathematics. Additional exercises, problems, and sample exams are available at: www.prenhall.com/gross Principal topics include: Counting and basic combinatorics, with applications to

probability and games The arithmetic of natural numbers: the Euclidean Algorithm and the unique factorization theorem Modular arithmetic, including Fermat's Theorem, Euler's Theorem, and how to take powers and roots Codes: how the special properties of ordinary and modular arithmetic in combination allow us to construct the public-key codes that help make data transmission secure.

The Book Of Numbers

Natural numbers are the oldest human inventions. This volume describes their nature, laws, history and current status. The first five chapters contain not only the basics of elementary number theory for the convenience of teaching and continuity of reading, but also many latest research results. For the first time in history, the Chinese Remainder Theorem is renamed the Qin Jiushao Theorem to give him the full credit for his establishment of this famous theorem in number theory. Chapter 6 is about the fascinating congruence modulo an integer power, and Chapter 7 introduces a new problem extracted by the author from the classical problems of number theory, which is out of the combination of additive number theory and multiplicative number theory.In this volume, there is supplementary material after each section to broaden the reader's knowledge and imagination. It either discusses the rudiments of some aspects or introduces new topics, such as the perfect number problem, Goldbach's conjecture, the twin prime conjecture, the 3x + 1 problem, Waring's problem, Catalan's conjecture, Euler's conjecture, Fermat's Last Theorem, etc.Originally published in Chinese as in 2014, The Book of Numbers is written for anyone who loves natural numbers. The author is not only a mathematician, but also a literary and science writer, with more than 20 books published, many of which were translated into 20 languages.

The Crayons' Book of Numbers

Counting is as easy as 1... 2... purple?... in this charming book of numbers from the creators of the #1 New York Times Best Sellers, The Day the Crayons Quit and The Day the Crayons Came Home. Poor Duncan can't catch a break! First, his crayons go on strike. Then, they come back home. Now his favorite colors are missing once again! Can you count up all the crayons that are missing from his box? From the creative minds behind the The Day the Crayons Quit and The Day the Crayons Came Home comes a colorful board book introducing young readers to numbers.

The Angel Numbers Book

\"Have you ever noticed yourself waking up at exactly the same time every night? Or find yourself stuck on a certain page number of a book? What about seeing those very numbers repeated on signs and license plates while you travel? Numbers repeated throughout your day are one major way that angels communicate guidance, warning, and praise to let you know whether the path you are on is right for you. The Angel Numbers Book can help you decipher these messages. Here you'll receive the tools to understand the meaning of each number and number pattern sent by your angel guides. You'll also find space to record and reflect on the numbers you see, cultivating meanings that are personal to you and your experiences. You'll learn to turn your attention toward the communications of your angel guides, strengthen your understanding of the messages they are sending, and stay more tune in whenever they're trying to speak to you. Unlock your potential -- and light the way to a more satisfying, meaningful life -- with The Angel Numbers Book!\" --

A Mind for Numbers

A New York Times bestselling bedtime story with a math twist from Danica McKellar (well-known for her roles on The Wonder Years and The West Wing, and acclaimed author of multiple popular math books)—which sneaks in secret counting concepts on each page to help make your child smarter! This deceptively simple bedtime book, the first in the McKellar Math line, gives your child the building blocks for math success. As children say goodnight to the objects all around them—three wheels on a tricycle, four legs on a cat—they will connect with the real numbers in their world while creating cuddly memories, night after

night. Actress, math whiz, and New York Times bestselling author Danica McKellar uses her proven math success to show children that loving numbers is as easy as 1, 2, 3. \"The joys of counting combine with pretty art and homage to Goodnight Moon.\" —Kirkus \"McKellar brings her enthusiasm for mathematics to a younger crowd in this gentle and well-executed counting book.\" —Publishers Weekly \"A similarly simple, quiet feel as Margaret Wise Brown’s iconic Goodnight Moon...there is a lot to count on.\" –Booklist \"A winner for bedtimes or storytimes focusing on counting.\" —School Library Journal

Goodnight, Numbers

FROM PULITZER PRIZEWINNER JOSHUA COHEN 'Dazzling and engrossing' Colm Tóibín, Guardian 'Untainted and unique' Rachel Kushner 'Intensely perceptive' Independent Book of Numbers is a novel about two men of the same age and with the same name: Joshua Cohen. The first Joshua is a writer whose keenly anticipated debut had the bad luck to be published on September 11, 2001. The other Joshua is the enigmatic billionaire Founder and CEO of the world's most profitable tech company. Autobiography, family memoir, phoned-in ghostwriting, international thriller, sex comedy - Book of Numbers brings to life the full range of modern experience in the course of its epic journey. 'More impressive than all but a few novels published so far this decade' New York Times

Book of Numbers

THE STORIES BEHIND OUR ICONIC NUMBERS Rogerson's Book of Numbers is based on a numerical array of virtues, spiritual attributes, gods, devils, sacred cities, powers, calendars, heroes, saints, icons, and cultural symbols. It provides a dazzling mass of information for those intrigued by the many roles numbers play in folklore and popular culture, in music and poetry, and in the many religions, cultures, and belief systems of our world. The stories unfold from millions to zero: from the number of the beast (666) to the seven deadly sins; from the twelve signs of the zodiac to the four suits of a deck of cards. Along the way, author Barnaby Rogerson will show you why Genghis Khan built a city of 108 towers, how Dante forged his Divine Comedy on the number eleven, and why thirteen is so unlucky in the West whereas fourteen is the number to avoid in China.

Rogerson's Book of Numbers

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.

A Million Random Digits with 100,000 Normal Deviates

An introduction to counting.

The Penguin Dictionary of Curious and Interesting Numbers

News about this title: — Author Marty Weissman has been awarded a Guggenheim Fellowship for 2020. (Learn more here.) — Selected as a 2018 CHOICE Outstanding Academic Title — 2018 PROSE Awards Honorable Mention An Illustrated Theory of Numbers gives a comprehensive introduction to number theory,

with complete proofs, worked examples, and exercises. Its exposition reflects the most recent scholarship in mathematics and its history. Almost 500 sharp illustrations accompany elegant proofs, from prime decomposition through quadratic reciprocity. Geometric and dynamical arguments provide new insights, and allow for a rigorous approach with less algebraic manipulation. The final chapters contain an extended treatment of binary quadratic forms, using Conway's topograph to solve quadratic Diophantine equations (e.g., Pell's equation) and to study reduction and the finiteness of class numbers. Data visualizations introduce the reader to open questions and cutting-edge results in analytic number theory such as the Riemann hypothesis, boundedness of prime gaps, and the class number 1 problem. Accompanying each chapter, historical notes curate primary sources and secondary scholarship to trace the development of number theory within and outside the Western tradition. Requiring only high school algebra and geometry, this text is recommended for a first course in elementary number theory. It is also suitable for mathematicians seeking a fresh perspective on an ancient subject.

My First Book Of Animals

\"A number book like no other, introducing children to the significance of different numbers and the things they are associated with. Did you know that an octopus has three hearts, every snowflake has six points, giraffes have seven bones in their necks, cloud cover is measured in 'oktas' from 0 to 8, and that nine is lucky in China (but unlucky in Japan)? Find out about numerous facts with this brightly illustrated picture book!\"

An Illustrated Theory of Numbers

Think of a number between one and ten. No, hang on, let's make this interesting. Between zero and infinity. Even if you stick to the whole numbers, there are a lot to choose from - an infinite number in fact. Throw in decimal fractions and infinity suddenly gets an awful lot bigger (is that even possible?) And then there are the negative numbers, the imaginary numbers, the irrational numbers like pi which never end. It literally never ends. The world of numbers is indeed strange and beautiful. Among its inhabitants are some really notable characters - pi, e, the \"imaginary\" number i and the famous golden ratio to name just a few. Prime numbers occupy a special status. Zero is very odd indeed: is it a number, or isn't it? How Numbers Work takes a tour of this mind-blowing but beautiful realm of numbers and the mathematical rules that connect them. Not only that, but take a crash course on the biggest unsolved problems that keep mathematicians up at night, find out about the strange and unexpected ways mathematics influences our everyday lives, and discover the incredible connection between numbers and reality itself. ABOUT THE SERIES New Scientist Instant Expert books are definitive and accessible entry points to the most important subjects in science; subjects that challenge, attract debate, invite controversy and engage the most enquiring minds. Designed for curious readers who want to know how things work and why, the Instant Expert series explores the topics that really matter and their impact on individuals, society, and the planet, translating the scientific complexities around us into language that's open to everyone, and putting new ideas and discoveries into perspective and context.

Big Book of Numbers

\"Think of the heart-racing chase of The Hunger Games, but a giant mall is your arena.\"--Seventeen.com A suspenseful survival story and modern day Lord of the Flies set in a mall that looks just like yours. A biological bomb has just been discovered in the air ducts of a busy suburban mall. At first nobody knows if it's even life threatening, but then the entire complex is quarantined, people start getting sick, supplies start running low, and there's no way out. Among the hundreds of trapped shoppers are four teens. These four different narrators, each with their own stories, must cope in unique, surprising manners, changing in ways they wouldn't have predicted, trying to find solace, safety, and escape at a time when the adults are behaving badly. This is a gripping look at people and how they can—and must—change under the most dire of circumstances. And not always for the better.

The Theory of Numbers

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.

How Numbers Work

Exploring sports event management from a Caribbean, small island developing state perspective, the volume uses the events of the recently held Cricket World Cup 2007 (CWC 2007) as a launching pad for identifying best practices and the way forward. The CWC 2007 was the first time in any sport, a World Cup was staged in nine independent countries. None of the Caribbean territories hosting a match has a population larger than Jamaica's 3.4 million; most have less than quarter of a million people; economies are small and infrastructure limited. The hosting of this event produced significant lessons that the region and the world can learn from concerning sports event management.

No Safety In Numbers

A self-contained introduction to the geometry of numbers.

Nice Numbers

Prima Latina is a preparatory Latin course for young students who are still becoming familiar with English grammar. It is intended for teachers with no background in Latin and was developed for children in kindergarten thru third grade.

My Very First Book of Numbers

Hoyt Long offers both a reinterpretation of modern Japanese literature through computational methods and an introduction to the history, theory, and practice of looking at literature through numbers. He weaves explanations of these methods and their application together with reflection on the kinds of reasoning such methodologies facilitate.

The Geometry of Numbers

\"From the Golden Gate Bridge to seals to cable cars, there's no shortage of bright, bold, and interesting things to count in San Francisco. Explore numbers through the best the city has to offer...\"--Amazon.com.

Mathemagic: Numbers, Numbers, Everywhere

Numbers are at the heart of the existence of the universe and everything in it, and yet a lot of us have little understanding of their creation, let alone their part in philosophy, art, music, physics, literature, religion and computing. Dr Bentley's fascinating history of the origins of numbers will unlock the secrets of these things

that we take for granted and shows how numbers seem to take on human characteristiscs - as they can be perfect or irrational, amicable or prime, real or imaginary. From zero to infinity, learn about the way numbers have shaped our world, discover amazing facts and enjoy the pure beauty of mathematical logic.

Prima Latina

This handbook focuses on some important topics from Number Theory and Discrete Mathematics. These include the sum of divisors function with the many old and new issues on Perfect numbers; Euler's totient and its many facets; the Möbius function along with its generalizations, extensions, and applications; the arithmetic functions related to the divisors or the digits of a number; the Stirling, Bell, Bernoulli, Euler and Eulerian numbers, with connections to various fields of pure or applied mathematics. Each chapter is a survey and can be viewed as an encyclopedia of the considered field, underlining the interconnections of Number Theory with Combinatorics, Numerical mathematics, Algebra, or Probability Theory. This reference work will be useful to specialists in number theory and discrete mathematics as well as mathematicians or scientists who need access to some of these results in other fields of research.

The Values in Numbers

On 9 June 2003, a 43-year-old coloured man named Magadien Wentzel walked out of Pollsmoor Prison in Cape Town. Behind him lay a lifelong career in the 28s, South Africa's oldest and most reviled prison gang, for decades rumoured to have specialised in rape and robbery. In front of him lay the prospect of a law-abiding future, and life in a household of eight adults and six children, none of whom earned a living. Jonny Steinberg met Wentzel in prison in the dying months of 2002. By the time Wentzel was released, he and Steinberg had spent more than 50 hours discussing his life experiences. The Number is an account of their conversations and of Steinberg's journeys to the places and people of Wentzel's past. Wentzel had lived a bewilderingly schizophrenic life, wandering to and fro between three worlds: the arcane universe of prison gangs, steeped in a mythology of banditry and retribution, where he was known as JR; the fringes of South Africa's criminal economy, where he lived by a string of stolen names and learned the arts of commercial fraud; and his scattered family which eked out a living int the coloured ghettos of the Cape flats. The Number visits each of those worlds in turn. It is a tale of modern South Africa's historic events seen through the eyes of the country's underclass. Surprisingly, perhaps, it is neither a story of passivity nor despair, but of beguiling ingenuity and cool cynicism. Most of all, the book is an account of memory and identity, of Wentzel's project to make some sense of his bewildering past and something worthy of his future. When Steinberg met him, Wentzel was embarking on a quest to retrieve the name he had been given at birth. He was also beginning the daunting task of gathering together the estranged children he had sired into a nuclear family. It was an eccentric and painful venture for a man with his past, but it has led him to construct an account of himself that begs to be told.

San Francisco

How can a prime number be 'sexy' and 'safe' at the same time? Why shouldn't Aussie cricketers be scared of the number 87? And how many bacteria live in your pants ... All the answers and more are in Adam Spencer's Big Book of Numbers. This is a book for readers of all ages who love numbers, who want to love numbers, or who just love to laugh and learn about the wonderful world we live in. For 15 years Adam Spencer has been entertaining us. On triple j and ABC radio and television, he's established himself as Australia's funniest and most famous mathematician. And now, by popular demand, we have his Big Book of Numbers, a fascinating journey from 1 to 100.

Narrative Numbers and the Value of Stories in Business

Your first grader must know how to count and assess the value of numbers. This means that he/she should be able to arrange numbers in ascending and descending order. But how well can he/she complete these

exercises? You can gauge your child's knowledge by having him/her work against the clock. Use this book for drills. Good luck!

First 100 Numbers

Adam, Sarah, and Mia are living together, struggling with the fame brought about by their knowing the dates when people will die, but ever since Mia swapped her number for another, her new power makes her a target that puts them all in jeopardy.

The Book of Numbers

The Invention of Numbers