

Mathemagic Number Tricks

A journey through a land where Milo learns the importance of words and numbers provides a cure for his boredom.

Teixeira and Park present over 60 different magic tricks while introducing students to high-level math areas. Readers will learn really interesting ideas that will better prepare them for future courses and help them finding areas they might want to study deeper. And as a 'side effect' students will learn amazing magic tricks, century-old secrets, and details from famous magicians and mathematicians. The material was written to quickly present key concepts in several mathematical areas in direct way. Little or no proficiency in math is assumed. In fact, students do not require any Calculus knowledge. And since chapters are almost independent from each other, this book also work as introduction to several other courses. Topics covered include mathematical proofs, probability, abstract algebra, linear algebra, mathematical computing, number theory, coding theory, geometry, topology, real analysis, numerical analysis and history of math.

This enormous volume of maths puzzles will test how sharp readers are with numbers and provide hours of fun. There are mind bogglers of every type - from

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amazing magic number tricks to beautiful geometric designs - and plenty of them too! This starts with puzzles that are fairly easy and builds up to ones that are really challenging. Tricks and hints provide help along the way that will make the reader look like a whiz!

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 π which never end. It literally never ends. The world of numbers is indeed strange and beautiful. Among its inhabitants are some really notable characters - π , e , the square root of minus two and the famous golden ratio to name just a few. Prime numbers occupy a special status. Zero is very odd indeed. And even some apparently common-or-garden integers such as 37 have special properties. Adventures In Mathematics takes a tour of this mind-blowing but beautiful world of numbers and the mathematical rules that connect them. Find out mathematicians' favourite numbers, and the ones they are afraid of (spoiler: it isn't 13). Discover the incredible connection between numbers and the rules of nature. And learn some amazing mathematical tricks that will keep you amused

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for hours.

These simple math secrets and tricks will forever change how you look at the world of numbers. Secrets of Mental Math will have you thinking like a math genius in no time. Get ready to amaze your friends—and yourself—with incredible calculations you never thought you could master, as renowned “mathemagician” Arthur Benjamin shares his techniques for lightning-quick calculations and amazing number tricks. This book will teach you to do math in your head faster than you ever thought possible, dramatically improve your memory for numbers, and—maybe for the first time—make mathematics fun. Yes, even you can learn to do seemingly complex equations in your head; all you need to learn are a few tricks. You’ll be able to quickly multiply and divide triple digits, compute with fractions, and determine squares, cubes, and roots without blinking an eye. No matter what your age or current math ability, Secrets of Mental Math will allow you to perform fantastic feats of the mind effortlessly. This is the math they never taught you in school.

Provides instructions for twenty magic tricks using numbers, with explanations of the mathematics behind each trick.

This book presents students and teachers with high-interest activities that will arouse curiosity and extend thinking. Students will enjoy performing

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'mathematical tricks' on their peers, and teachers can intrigue their class by beginning lessons with a dazzling demonstration. The activities included can be used in a variety of ways such as: independent activities, collaborative learning in pairs or small groups, and teacher demonstrations. Older students can be encouraged to discuss and develop the algebraic ideas and concepts that are the 'magic' behind the tricks, while younger students can simply be captivated by the magic of mathematics.

Learning math can be a difficult task for any child, and for many adults. But learning to work with numbers need not be a dreaded experience; in fact, it can even be fun! Scott Flansburg, also known as "the Human Calculator," can help kids learn how to add, subtract, multiply and divide without the anxiety and frustration which often accompanies learning these skills. Using techniques that make numbers easy to work with and by demonstrating how math is essential to everyday life (contrary to the lament of a great percentage of students), Math Magic for Your Kids can help maximize your child's potential to understand math and enjoy it in the process. Flansburg has helped millions of "math phobic" adults with his popular lectures and best-selling book, Math Magic. Now he is reaching out to help America's "math phobic" kids. Math Magic for Your Kids makes it easy, even for those adults who suffer from math anxiety, to help the next

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generation get a leg up on essential math skills. The book is specifically designed to be combined with various mathematics curricula approved by the National Council of Teachers of Mathematics. Aimed at children aged 5 through 8, it can also benefit younger children who demonstrate a readiness for advanced number concepts and for older children who need reinforcement of basic math skills. For kids who struggle with simple math skills, Flansburg provides activities to "build a child's math sense" and help reinforce math concepts. Math Magic for Your Kids also contains information and anecdotes that relate math concepts to everyday situations, explains principles that facilitate learning in general, and provides shortcut methods as well as challenging puzzles and riddles to keep kids interested and involved. Games and exercises are designed to be executed independently or with parents' help.

More than 60 new puzzles and stunts based on the properties of numbers. Easy techniques for multiplying large numbers mentally, identifying unknown numbers, determining the date of any day in any year, such entertainments as The Lost Digit, and Psychic Bridge. Over 30 pages of magic squares, triangles, cubes, more. 76 illustrations.

This volume comprises an imaginative collection of pieces created in tribute to Martin Gardner. Perhaps best known for writing Scientific American's "Mathematical Games"

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column for years, Gardner used his personal exuberance and fascination with puzzles and magic to entice a wide range of readers into a world of mathematical discovery.

This tribute

Provides instructions for performing different math tricks plus the explanations for why each trick works.

Dozens of number tricks from easy to expert.

A collection of math brain teasers, card tricks, calculator riddles and more! Great teaching resource for math teachers (many grade levels).

The world's greatest mental mathematical magician takes us on a spellbinding journey through the wonders of numbers (and more) "Arthur Benjamin . . . joyfully shows you how to make nature's numbers dance." -- Bill Nye (the science guy) The Magic of Math is the math book you wish you had in school. Using a delightful assortment of examples--from ice-cream scoops and poker hands to measuring mountains and making magic squares--this book revels in key mathematical fields including arithmetic, algebra, geometry, and calculus, plus Fibonacci numbers, infinity, and, of course, mathematical magic tricks. Known throughout the world as the "mathemagician," Arthur Benjamin mixes mathematics and magic to make the subject fun, attractive, and easy to understand for math fan and math-phobic alike. "A positively joyful exploration of mathematics." -- Publishers Weekly, starred review "Each [trick] is more dazzling than the last." -- Physics World

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Mathemagic!Number TricksKids Can Press Ltd

Includes elementary puzzles, number stunts, mental multiplication, interest rates, oddities, and more.

Ever find yourself struggling to check a bill or tax on a payslip? The Trachtenberg Speed System provides a course in refining basic mathematics skills to tackle large sums before simplifying to increase concentration and ability in day-to-day arithmetic. The Trachtenberg system has been described as the 'shorthand of mathematics' and only requires the ability to count from one to eleven. Using a series of simplified keys, it allows anyone to master numbers and calculations giving greater speed, ease in handling numbers and increasing accuracy. Jakow Trachtenberg believed that everyone is born with phenomenal abilities to calculate. He devised a set of rules that allows every child to make multiplication, division, addition, subtraction and square-root calculations with unerring accuracy and at remarkable speed. A perfect entry into gaining confidence with numbers. Stimulating treasury of entertaining tricks, stunts, and magical effects based on such mathematical principles and ideas as magic squares, the Fibonacci Series, Moebius strips, cycloids, topology, and more. Only simple props required: from playing cards and matches to coins. No magic or mathematical skills needed. Have nothing but a deck of cards? With this book you'll soon be dealing out

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playful poker, and four-ace tricks that will make everyone say: "How did you do that?" If you can shuffle a deck, you can perform "jacks be nimble," "about face," "number nonsense," and dozens more. Clear illustrations demonstrate how to execute each move precisely. A chart gauges the difficulty of each trick.

Need some serious help solving equations? Totally frustrated by polynomials, parabolas and that dreaded little x ? THE MATH DUDE IS HERE TO HELP!

Jason Marshall, popular podcast host known to his fans as The Math Dude, understands that algebra can cause agony. But he's determined to show you that you can solve those confusing, scream-inducing math problems--and it won't be as hard as you think! Jason kicks things off with a basic-training boot camp to help you review the essential math you'll need to truly "get" algebra. The basics covered, you'll be ready to tackle the concepts that make up the core of algebra. You'll get step-by-step instructions and tutorials to help you finally understand the problems that stump you the most, including loads of tips on: - Working with fractions, decimals, exponents, radicals, functions, polynomials and more - Solving all kinds of equations, from basic linear problems to the quadratic formula and beyond - Using graphs and understanding why they make solving complex algebra problems easier

Learning algebra doesn't have to be a form of torture, and with The Math Dude's Quick and Dirty Guide to Algebra, it won't be. Packed

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with tons of fun features including "secret agent math-libs," and "math brain games," and full of quick and dirty tips that get right to the point, this book will have even the biggest math-o-phobes basking in a-ha moments and truly understanding algebra in a way that will stick for years (and tests) to come. Whether you're a student who needs help passing algebra class, a parent who wants to help their child meet that goal, or somebody who wants to brush up on their algebra skills for a new job or maybe even just for fun, look no further. Sit back, relax, and let this guide take you on a trip through the world of algebra. Text, illustrations, and suggested activities offer a common-sense approach to mathematic fundamentals for those who are slightly terrified of numbers. Even if you aren't David Copperfield, you can use these 57 hands-on tricks to enchant your students. Covering everything from basic math through basic algebra, *Mathemagic in the Classroom* features complete directions and thorough explanations for each trick, correlations to math content, and much more.

Prepare yourself to change the way you look at numbers. Tricks in this book will teach you to think like a math genius in a short time. Prepare yourself to be surprised and surprise your friends with incredible calculations that you never thought you could master. This book will teach you how to mentally solve

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operations faster than you ever imagined. It will teach you to considerably improve your numerical memory and to make mathematics fun. You will learn to mentally solve complex, by all appearances, operations; all you need is in this book, focused on some very simple techniques to master them. You will be able to solve diverse additions and subtractions, to multiply and divide three digit numbers quickly, and to determine squares - all of that in the twinkling of an eye. No matter your age or your current capacity of calculating, this book, written in a simple and accessible language, will allow you to do mental feats effortlessly. Get ready to discover mathematics and to become a human calculator.

How to calculate almost anything in your head. Did you know that it's easier to add and subtract from left to right, rather than the other way round? You can be taught to square a three-digit number in seconds. Learn how to perform lightning calculations in your head, discover methods of incredible memorisation and other feats of mental agility. Learn maths secrets for the real world, from shopping to calculating a restaurant tip and figuring out gambling odds (or how much you've won). Learn how to solve sudoku faster.

Famed puzzle expert explains math behind a multitude of mystifying tricks: card tricks, stage "mind reading," coin and match tricks, counting out games, geometric dissections, etc. More than 400 tricks. 135 illustrations.

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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 volume, first published in 1977, contains columns published in the magazine from 1965-1968. This 1990 MAA edition contains a foreword by Persi Diaconis and Ron Graham and a postscript and extended bibliography added by Gardner for this edition. The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For

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those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Demonstrates how to solve math problems more quickly in one's head than with a calculator, and describes mathematical tricks and shortcuts

From the editors at Portable Press, the people who bring you Uncle John's Bathroom Reader, comes a book full of simple, easy-to-follow, and even entertaining tricks for doing practical, real-world math in your head in just seconds flat. A lot of us hate math, but that's just because we don't remember much of it from high school or we think it's too hard (which is probably why we've forgotten it). But who needs it when you've got a calculator, right? Wrong. We all use math every day—to calculate a tip, to figure out an interest rate, to estimate the cost of the groceries in your cart, etc. Math doesn't have to be hard. It can be easy, fast, and even fun...if you know how to do it all in your head. See Ya Later Calculator demystifies numbers and math. With these simple, precise, and downright magical math tricks, readers can do everyday math faster than it takes to dig out their phone and find the calculator app. Clear, step-by-step, easily memorizable directions demonstrate more than 125 math operations anyone can do in their head. Plus, it features do-it-yourself math projects, puzzles, and even a bonus section for advanced mathophiles. Get ready to tackle fun problems such as... • How to easily

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square any number • How to add three-digit numbers • How to use a mirror to measure the height of a building • How to make a ruler out of a dollar bill • How to use geometry to paint walls, cut floor tiling, and do other home renovations • How to subtract numbers...by adding And lots more...no calculator required.

Selected brain teasers requiring geometric, algebraic, and logical solutions
Can this book really read your mind? Here is a collection of 60 of the best number magic tricks. You will amaze yourself as you try out these great tricks, which you can then perform on your friends. The tricks could help you to revise key Mathematical concepts. Magicians will love this useful collection of varied number principles gathered together in one volume. Read this book and you will soon become a mathemagician! It could boost your confidence in Maths as you learn to manipulate numbers in a magical way and entertain your friends at the same time. Use these baffling tricks over the phone, in an email or text, in your publicity material or on the radio. They have many uses for the creative magician, too! This book is written by an Associate of the Inner Magic Circle who also has many years' experience in Primary age Education. Anyone from the age of seven upwards can become a Maths Wizard! Paperback. 95 pages. Three children, Tom, Hannah, and Shadowchild, who represents the reader, are made to guess, using the concept of binary logic, the color of the hats on their heads. An introduction to logical thinking and mathematical problem-solving.

Professor Picanumba has dozens of surefire tricks up his sleeve — and he's

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willing to show junior magicians how to predict the answers to 88 word and number challenges. Includes solutions and illustrations.

"Magical Mathematics reveals the secrets of amazing, fun-to-perform card tricks--and the profound mathematical ideas behind them--that will astound even the most accomplished magician. Persi Diaconis and Ron Graham provide easy, step-by-step instructions for each trick, explaining how to set up the effect and offering tips on what to say and do while performing it. Each card trick introduces a new mathematical idea, and varying the tricks in turn takes readers to the very threshold of today's mathematical knowledge. For example, the Gilbreath principle--a fantastic effect where the cards remain in control despite being shuffled--is found to share an intimate connection with the Mandelbrot set. Other card tricks link to the mathematical secrets of combinatorics, graph theory, number theory, topology, the Riemann hypothesis, and even Fermat's last theorem. Diaconis and Graham are mathematicians as well as skilled performers with decades of professional experience between them. In this book they share a wealth of conjuring lore, including some closely guarded secrets of legendary magicians. Magical Mathematics covers the mathematics of juggling and shows how the I Ching connects to the history of probability and magic tricks both old and new. It tells the stories--and reveals the best tricks--of the eccentric and

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brilliant inventors of mathematical magic. Magical Mathematics exposes old gambling secrets through the mathematics of shuffling cards, explains the classic street-gambling scam of three-card monte, traces the history of mathematical magic back to the thirteenth century and the oldest mathematical trick--and much more"-

100 Math Brainteasers (Grade 7-10) is a subtle selection of one hundred arithmetic, algebra, and geometry assignments, which efficiently train the mind in math skills. It will be helpful for students attending High School and also in preparation for Mathematical competitions or Olympiads at a younger age. The assignments can equally be used in the classroom or in extracurricular activities. The fun and games are delightful, original, and solving them is even more enjoyable thanks to the funny illustrations. Most of the math problems do not require any exceptional mathematical proficiency, but above all, they challenge one's creativity and ability to think logically. Only a few solicit the knowledge of algebraic expressions and rules of geometry.

Clear instructions for 101 tricks and problems, many based on important math principles. Master such number phenomena as Lightning Calculations, Giant Memory, Magic Squares, nearly 100 more. 98 illustrations.

Math will never be the same again-and you'll love it! Fun tricks, calculator

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conundrums, brainteasers and other numerical hoaxes will challenge every inch of your brain in the most satisfying way. There are even riddles to get you giggling. Amaze your friends with your psychic powers when you predict the outcome of the "7-11" card trick. Figure out how to cut a pepperoni pizza using only 3 straight lines-and still have a piece of pepperoni on each slice. Solve a series of pencil puzzles...without ever lifting the pencil from the paper. Build a house with 11 toothpicks; then move just one to make the building face the opposite direction. Comical illustrations add to the enjoyment. So sharpen a pencil, get a piece of paper, and start on these mathematical mysteries right away!

Illustrated articles, stories, and poems, grouped thematically in fifteen volumes under titles including "World and Space," "About Animals," "How Things Work," and "Make and Do."

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