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# Math Memory Magic

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Mathematics for Human Flourishing  
Mind Power... Memory Magic  
Street-Fighting Mathematics  
Grumpy Gloria  
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College Success  
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Math Memory Magic

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## TRISTIAN STEWART

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Math with Bad Drawings Pembroke  
 Publishers Limited

Discover the Mental Math Secrets to Become a Human Calculator! Schools taught you a way to do math that works when you have a pen & paper. But the same methods, takes a lot of effort when you have to do math in your head. This is because it uses a lot of your working memory (the short term memory used to complete a mental task). For example, try to mentally multiply  $73,201 \times 3$ . It might take only a few seconds to multiply the individual digits. But if you multiply right to left the way you learnt in school, you will rely on your working memory. You will use it to recall every single digit you calculate to put it back together and get your final answer. You may even find yourself calculating some digits again because you forgot one of the numbers. The difficulty increases further when you have to multiply larger numbers like  $732 \times 323$ . You will have to remember numbers across many steps. Mental arithmetic would be a lot easier to do in your head if you didn't have to remember so many numbers. In school, you learnt to write the down numbers as you calculate to free up your working memory. In mental math, there are many other ways to do the same thing. One of the tricks to free up your working memory is to calculate from left to right instead of right to left. Try multiplying  $73,201 \times 3$  from left to right, starting from  $7 \times 3$  and ending with  $1 \times 3$ . You will find yourself calling out the answer before you even finish the whole problem. You can use this trick to solve any math problem in the future. But we

have just scratched the surface. There are many more tricks inside the book that make doing mental math as easy as reading a comic. Here is a glimpse of what you will be able to master:

- Mentally add large numbers (Example: Add  $8739 + 5492$  in your head in seconds)
- Subtract numbers fast. (Example: Mentally subtract  $7520 - 4998$  without writing anything down)
- Multiplication tricks to multiply three-digit numbers. (Example: Multiply  $323 \times 123$  in your head)
- Square large numbers in seconds (Example: Calculate  $64 \times 64$  faster than a calculator)
- Mentally divide large numbers (Example: Divide  $601324$  by  $73$  entirely in your head)
- Quickly check a calculation with 90% accuracy without re-calculating
- Overcome math anxiety
- Cement your mental math skills with bonus weekly training. This book only has the best techniques used by over 27 mental and Vedic math experts across the world. The techniques in this book are so simple you will wonder why nobody taught you this before. You will be able to master it, even if you have failed math in school. Imagine waking up tomorrow being able to do lightning fast math in your head. Your family & friends will look at you like you are some kind of a genius. Since you do the calculations in your head, you will acquire better mental habits in the process. So you will not just look like a genius. You will actually be one. Buy Now To Become A Human Calculator Every minute you wait to buy this book, is another minute you don't see the benefit of being good with math & numbers. Put the power of mental math to work in your life so you can quickly & easily:
- make math and numbers more useful
- develop better memory habits
- increase concentration
- develop new ways to think
- and do

speed math entirely in your head faster than a calculator! Get your copy today! A MUST BUY for students of Vedic Mathematics, GMAT, GRE, SAT, Case Study Interview and Case Interview. *How Numbers Work* TarcherPerigee

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.

*The Square Root of Summer* American Mathematical Soc.

"The ancient Greeks argued that the best life was filled with beauty, truth, justice, play and love. The mathematician Francis Su knows just where to find them."--Kevin Hartnett, *Quanta Magazine*" This is perhaps the most important mathematics book of our time. Francis Su shows mathematics is an experience of the mind and, most important, of the heart."--James Tanton,

Global Math Project For mathematician Francis Su, a society without mathematical affection is like a city without concerts, parks, or museums. To miss out on mathematics is to live without experiencing some of humanity's most beautiful ideas. In this profound book, written for a wide audience but especially for those disenchanting by their past experiences, an award-winning mathematician and educator weaves parables, puzzles, and personal reflections to show how mathematics meets basic human desires--such as for play, beauty, freedom, justice, and love--and cultivates virtues essential for human flourishing. These desires and virtues, and the stories told here, reveal how mathematics is intimately tied to being human. Some lessons emerge from those who have struggled, including philosopher Simone Weil, whose own mathematical contributions were overshadowed by her brother's, and Christopher Jackson, who discovered mathematics as an inmate in a federal prison. Christopher's letters to the author appear throughout the book and show how this intellectual pursuit can--and must--be open to all.

*Giordano Bruno and the Geometry of Language* Crown Books for Young Readers

This book teaches the art of writing mathematics, an essential -and difficult-skill for any mathematics student. The book begins with an informal introduction on basic writing principles and a review of the essential dictionary for mathematics. Writing techniques are developed gradually, from the small to the large: words, phrases, sentences, paragraphs, to end with short compositions. These may represent the introduction of a concept, the abstract of a presentation or the proof of a theorem.

Along the way the student will learn how to establish a coherent notation, mix words and symbols effectively, write neat formulae, and structure a definition. Some elements of logic and all common methods of proofs are featured, including various versions of induction and existence proofs. The book concludes with advice on specific aspects of thesis writing (choosing of a title, composing an abstract, compiling a bibliography) illustrated by large number of real-life examples. Many exercises are included; over 150 of them have complete solutions, to facilitate self-study. *Mathematical Writing* will be of interest to all mathematics students who want to raise the quality of their coursework, reports, exams, and dissertations.

**Magic for You** John Murray

The *Memory Arts* is our most beautiful book to date. Full-color, with pictures on every page, this book details the simple, secret formula that will allow you to remember things better. This system, based on all the great pillars of mnemonics, was developed by husband and wife superteam Sarah and David Trustman. Apply the system to magic or everyday life. The choice is yours!

How to be Inventive When Teaching

Primary Mathematics MIT Press

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.

**Secrets of Mental Math** Houghton Mifflin Harcourt

Giordano Bruno and the Geometry of Language brings to the fore a sixteenth-century philosopher's role in early modern Europe as a bridge between science and literature, or more specifically, between the spatial paradigm of geometry and that of language. Arielle Saiber examines how, to invite what Bruno believed to be an infinite universe-its qualities and vicissitudes-into the world of language, Bruno forged a system of 'figurative'

vocabularies: number, form, space, and word. This verbal and symbolic system in which geometric figures are seen to underlie rhetorical figures, is what Saiber calls 'geometric rhetoric.' Through analysis of Bruno's writings, Saiber shows how Bruno's writing necessitates a crafting of space, and is, in essence, a lexicon of spatial concepts. This study constitutes an original contribution both to scholarship on Bruno and to the fields of early modern scientific and literary studies. It also addresses the broader question of what role geometry has in the formation of any language and literature of any place and time.

Think Like A Maths Genius Yale University Press

Unleash the hidden power of your mind. It's there in all of us. A mental resource we don't think much about. Memory. And now there's a way to master its power. . . . Through Harry Lorayne and Jerry Lucas's simple, fail-safe memory system, you can become more effective, more imaginative, and more powerful at work, at school, in sports, and at play. • Read with speed and greater understanding. • File phone numbers, data, figures, and appointments right in your head. • Send those birthday and anniversary cards on time. • Learn foreign words and phrases with ease. • Shine in the classroom and shorten study hours. • Dominate social situations: Remember and use important personal details. Begin today. The change in your life will be unforgettable

Math Magic CRC Press

Have you ever taken your children on a maths walk? Are your pupils shape detectives? How to be Inventive When Teaching Primary Mathematics is a pocket guide to inspire primary teachers to become confident, effective, imaginative teachers who enjoy

teaching, and whose pupils enjoy learning. It is packed with exciting, creative, unexpected ideas, to help teachers and pupils open their eyes to the mathematical world around them. It gives teachers the tools to develop their own classroom activities and experiences, supporting learners as they move fluently between mathematical ideas and develop their ownership of mathematics: Take your pupils on a maths walk, meet dinosaurs, visit art galleries, learn your destiny number, create your first human graph in the playground and learn how to be an algebra magician. Written by Steve Humble, expert teacher, teacher trainer and, as Dr Maths, advocate for the power and potential of mathematics, this friendly, stimulating guide offers a fresh, practical approach to teaching mathematics, based on the best research and practice, and years of experience in the field. Focussing on five key mathematical topics - number, geometry, measurement, statistics and algebra - it is structured in the form of a journey, introducing historical facts, ideas for innovative and inventive classroom activities and explorations of the key misconceptions for each topic. How to be Inventive When Teaching Primary Mathematics will challenge you to think about your own beliefs and how they influence your practice, and help you understand how best to transform your teaching to stimulate children's emotions to improve knowledge, learning and enjoyment of the beauty of maths.

The Memory String Tabletop Academy Press

A hilarious reeducation in mathematics- full of joy, jokes, and stick figures-that sheds light on the countless practical and wonderful ways that math structures

and shapes our world. In *Math With Bad Drawings*, Ben Orlin reveals to us what math actually is; its myriad uses, its strange symbols, and the wild leaps of logic and faith that define the usually impenetrable work of the mathematician. Truth and knowledge come in multiple forms: colorful drawings, encouraging jokes, and the stories and insights of an empathetic teacher who believes that math should belong to everyone. Orlin shows us how to think like a mathematician by teaching us a brand-new game of tic-tac-toe, how to understand an economic crisis by rolling a pair of dice, and the mathematical headache that ensues when attempting to build a spherical Death Star. Every discussion in the book is illustrated with Orlin's trademark "bad drawings," which convey his message and insights with perfect pitch and clarity. With 24 chapters covering topics from the electoral college to human genetics to the reasons not to trust statistics, *Math with Bad Drawings* is a life-changing book for the math-estranged and math-enamored alike.

*How To Learn And Memorize Math, Numbers, Equations, And Simple Arithmetic* Roaring Brook Press

"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 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"--

**Memory Improvement** Black Dog & Leventhal

Did you know that it's easier to add and subtract from left to right, rather than the other way round? And that you can be taught to square a three-digit number in seconds? In *Think Like A Maths Genius*, two mathematicians offer tips and tricks for doing tricky maths the easy way. With their help, you can 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 adding up your shopping and calculating a restaurant



tip, to figuring out gambling odds (or how much you've won) and how to solve sudoku faster.

*Secrets of Mental Math* Crown

Uses brain teasers and engaging activities to help teach young readers intermediate mathematics skills.

[Mathemagics: A Magical Journey Through Advanced Mathematics - Connecting More Than 60 Magic Tricks To High-level Math](#) New Age International

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.

[Dr. Mark's Magical Math](#) Springer

An antidote to mathematical rigor mortis, teaching how to guess answers without needing a proof or an exact calculation. In problem solving, as in street fighting, rules are for fools: do whatever works—don't just stand there!

Yet we often fear an unjustified leap even though it may land us on a correct result. Traditional mathematics teaching is largely about solving exactly stated problems exactly, yet life often hands us partly defined problems needing only moderately accurate solutions. This engaging book is an antidote to the rigor mortis brought on by too much mathematical rigor, teaching us how to guess answers without needing a proof or an exact calculation. In *Street-Fighting Mathematics*, Sanjoy Mahajan builds, sharpens, and demonstrates tools for educated guessing and down-and-dirty, opportunistic problem solving across diverse fields of knowledge—from mathematics to management. Mahajan describes six tools: dimensional analysis, easy cases, lumping, picture proofs, successive approximation, and reasoning by analogy. Illustrating each tool with numerous examples, he carefully separates the tool—the general principle—from the particular application so that the reader can most easily grasp the tool itself to use on problems of particular interest. *Street-Fighting Mathematics* grew out of a short course taught by the author at MIT for students ranging from first-year undergraduates to graduate students ready for careers in physics, mathematics, management, electrical engineering, computer science, and biology. They benefited from an approach that avoided rigor and taught them how to use mathematics to solve real problems. *Street-Fighting Mathematics* will appear in print and online under a Creative Commons Noncommercial Share Alike license. *The Magic of Math* Createspace Independent Publishing Platform *Math Magic: Amazing Tricks With Numbers, Arithmetic & Geometry!* is a guide to 40 math-based magical tricks.

The instructions for each trick explain what props or accessories are needed (for example playing cards or calculator), how the trick appears to the audience, how to perform the trick, and in many cases, the mathematical secrets behind the trick. This book is ideal for magicians looking for something new and different to add to their acts, those who simply want to amaze their friends, and for mathematics teachers and educators who wish to inspire their students with fun and interesting mathematical ideas.

### **Math Memory Magic** Createspace

Independent Publishing Platform

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

### The Dragon Curve Routledge

Parents and teachers have been looking for a fresh approach to make math more interesting and memorable. This series of books uses a unique Story Format,

introducing startling characters whose looks and personalities are intrinsic to the math concepts and operations they represent. Joan Host developed the approach while teaching remedial math students in a Pennsylvania public middle school. Her first group of 59 students had only three months of twice-weekly classes. Their state math competency test scores increased an average of 58%. The following year, Joan's new group of students had five months of twice-weekly classes. Scores increased an average of 76%! The lessons were later tested with low English proficiency students in multicultural Jersey City, New Jersey. Besides improvement, there was an unexpected finding in the test results. After completing *THE WHOLE NUMBER STORY* and its post-test, students took the pretest for the second book, *THE DECIMAL TALE* and scored higher than they had on the whole number pretest. This result made clear that taking time to undo old misconceptions of very basic concepts can jumpstart remediation at a higher level. This book can help you accomplish that mission for your students!

*A Mind for Numbers* Princeton University Press

Learn at home with help from The Wonder Years/Hallmark actress, math whiz, and New York Times bestselling author Danica McKellar using her acclaimed McKellar Math books! A revolutionary and FUN way for 2nd to 5th graders to memorize multiplication facts outside of the classroom is finally here! Join Mr. Mouse and Ms. Squirrel and experience an entirely new way of memorizing multiplication facts. Using colorful stories, silly rhymes, and more, Danica McKellar helps to break down the rules of multiplication and to translate many of the (often confusing!)



multiplication and division methods taught in today's classrooms. This lively "times" travel adventure is a lifesaver for frustrated kids and parents everywhere and a great way to "zero out" worries about homework and tests. If Mr. Mouse can learn to have fun with math, anyone can!

**Magical Mathematics** Ballantine Books  
Mathematical card effects offer both beginning and experienced magicians an opportunity to entertain with a minimum of props. Featuring mostly original creations, *Mathematical Card Magic: Fifty-Two New Effects* presents an entertaining look at new mathematically based card tricks. Each chapter contains

four card effects, generally starting with simple applications of a particular mathematical principle and ending with more complex ones. Practice a handful of the introductory effects and, in no time, you'll establish your reputation as a "mathemagician." Delve a little deeper into each chapter and the mathematics gets more interesting. The author explains the mathematics as needed in an easy-to-follow way. He also provides additional details, background, and suggestions for further explorations. Suitable for recreational math buffs and amateur card lovers or as a text in a first-year seminar, this color book offers a diverse collection of new mathemagic principles and effects.

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