

Secret Of Mental Math Arithmetic 70 Secrets To Super Speed Calculation Amazing Math Tricks How To Do Math Without A Calculator

An accessible guide to mathematical calculation reveals the secrets of rapid mental calculation, memorization, and other feats of the mind, with tips on how to add, subtract, multiply, divide, and work with fractions, squares, and cube roots. Original. 15,000 first printing.

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 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.

Many useful procedures explained and taught: 2-column addition, left-to-right subtraction, mental division of large numbers, more. Also numerous helpful shortcuts. More than 8,000 problems, with solutions. 1945 edition.

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

Mathematics is not a new subject to us because almost everyone knows how to count either with fingers or pen and paper in whichever language we are comfortable with. Math is not only the game of numbers but also the language of nature. As a matter of fact, it has been established through research that the more we understand our universe, the more we discover interesting mathematical connections. For instance, flowers have spirals that are carefully lines up in a special sequence of numbers commonly referred to as Fibonacci numbers. This sequence can be studied, understood and generated. A study on seashells also revealed that they form perfect mathematical curves known as logarithmic spirals that originate from a chemical balance. Apart from the flowers and seashells, star clusters also form a mathematical arrangement in the way they tag on one another. This has been observed through astronomical studies. Scientists including mathematicians have spent centuries trying to discover the nature of math and how to develop a mastery of the same. It is possible to get comfortable with calculations of any nature as long as you discover the secrets behind the numerics. The reason why it is important to unravel and enhance your command of math is because numbers are part and parcel of our daily lives even in ways that at times we don't notice. For example, if you need to call someone, you need a phone number. The time you spend on your phone conversation is measured in hours and minutes which are also numbers. Think of any date in history including your birthday, graduation day or just any other significant day and you will find that recording it in numbers is much easier than in any other form. This book will show you the tricks and shortcuts that will make math so intriguing. You will definitely impress your friends and colleagues with your lightning fast calculating ability. But most importantly, these secrets will benefit you at a personal level because you will be able to handle complex numeric problems within seconds.

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.

One key to improving and expanding your math potential--whether you're a corporate executive or a high-school student--lies in the powerful ability to perform mental math calculations. Solving basic math problems in your head is a gateway to success in understanding and mastering higher mathematical fields such as algebra, statistics, and calculus. Mental mathematics also is valuable when you're shopping for groceries or figuring out how much to tip at a restaurant. This 12-lecture course guides you through all the essential skills, tips, and tricks for improving and enhancing your ability to solve a range of mathematical problems right in your head.

Useful for School students, teachers, and professionals and a must for those appearing for competitive exams like UPSC, MBA, MCA, GMAT, GRE, CSAT, etc. "After reading this book, solving $5378942639 \div 8120594263$, finding the square of 99975, the cube root of 704969 or calculating any day from 500 years would be child's play

The format of Mental Arithmetic differs from that of traditional mental arithmetic materials in that pupils read the questions themselves, use rough paper for workings out, and write down their answers. It provides intensive practice in all areas of the maths curriculum.

Can you multiply 35x35 in your head? That is, can you square the number 35?There's a mental math trick so that you can easily square any number ending in 5. Here's how the

trick works. Look at the first digit of 35, which is the number 3. We add one to that number, 4, and then multiply those two numbers together. So we have $3 \times 4 = 12$, and these are the leading digits of the answer. Now we just write 25 as the last two digits, so we get 1225. And that's it! We have calculated 35 squared is 1,225 in an amazingly simple way! Math does not have to be hard. The Best Mental Math Tricks is a collection of methods that can help you become a lightning calculator. You will learn how to solve daily problems like calculating percentages and figuring out which day your birthday is every year. Then you will learn how to square numbers, multiply numbers, divide numbers, and even solve complex problems like calculating the cube root of numbers in your head! Each method is explained in detail with numerous examples. Every method is mathematically justified with a formal proof. Each section also contains practice problems accompanied with complete solutions so you can try the method and check your work. "Our understanding of how the human brain performs mathematical calculations is far from complete. In The Number Sense, Stanislas Dehaene offers readers an enlightening exploration of the mathematical mind. Using research showing that human infants have a rudimentary number sense, Dehaene suggests that this sense is as basic as our perception of color, and that it is wired into the brain. But how then did we leap from this basic number ability to trigonometry, calculus, and beyond? Dehaene shows that it was the invention of symbolic systems of numerals that started us on the climb to higher mathematics. Tracing the history of numbers, we learn that in early times, people indicated numbers by pointing to part of their bodies, and how Roman numerals were replaced by modern numbers. On the way, we also discover many fascinating facts: for example, because Chinese names for numbers are short, Chinese people can remember up to nine or ten digits at a time, while English-speaking people can only remember seven. A fascinating look at the crossroads where numbers and neurons intersect, The Number Sense offers an intriguing tour of how the structure of the brain shapes our mathematical abilities, and how math can open up a window on the human mind"--Provided by publisher.

Recipient of the Mathematical Association of America's Beckenbach Book Prize in 2006! Mathematics is the science of patterns, and mathematicians attempt to understand these patterns and discover new ones using a variety of tools. In Proofs That Really Count, award-winning math professors Arthur Benjamin and Jennifer Quinn demonstrate that many number patterns, even very complex ones, can be understood by simple counting arguments. The book emphasizes numbers that are often not thought of as numbers that count: Fibonacci Numbers, Lucas Numbers, Continued Fractions, and Harmonic Numbers, to name a few. Numerous hints and references are given for all chapter exercises and many chapters end with a list of identities in need of combinatorial proof. The extensive appendix of identities will be a valuable resource. This book should appeal to readers of all levels, from high school math students to professional mathematicians.

Do you want to progress in mental arithmetic and improve your knowledge of divisions, power squared and more advanced tricks? To progress in mental arithmetic, you have to choose the fastest method, thanks to this book and to a regular and systematic training the calculations will become familiar to you. It's a great workout with method advice, progressive exercises, problems, and answers. Suitable for students during their free time and on vacations. Also suitable for adults to acquire new tricks. Help your children to penetrate some secrets of mental arithmetic and to mentally solve operations much faster than you can imagine, so to rediscover mathematics! (Additions, subtractions, multiplications, divisions tricks in VOL 1) Get your copy now!

No author has gone as far as Doerfler in covering methods of mental calculation beyond simple arithmetic. Even if you have no interest in competing with computers you'll learn a great deal about number theory and the art of efficient computer programming. —Martin Gardner

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.

Learn Tricks And Strategies To Solve Everyday Math Problems Easily Will you pay more a \$19.99 shirt with a 20% discount or a \$24.99 shirt with a 30% discount? Can you quickly calculate how many eggs you'll need to make 100 pancakes, if your recipe says that 2 eggs make 20 pancakes? Can you reckon how much will a \$30/month gym membership cost over the course of 24 months without writing anything or pulling out a calculator? The truth is, most of the math you find yourself doing on a day to day basis it's usually done in your head, that's why improving your mental math skills is always useful. If you've grown up hating math, that's probably because you've been taught with the wrong approach. Math isn't just boring formulas and pointless calculations, it can actually be a really useful skill. It can help you calculate a discount on the fly, easily multiply big numbers or quickly figure out how much dough packs you'll need to make 50 cookies if one pack will be enough for 20. In this book you'll find many tricks and practical strategies to improve your math skills, learn how to make calculations faster and solve everyday math problems more easily. And don't worry... This isn't your average and boring book on math theory. You'll find helpful, to-the-point tips and tricks that will actually help you speed up and simplify the calculations you do in your everyday life. Here are some practical tricks you'll learn: How To Quickly Multiply Any Number By 3, 4, 5, 6, 9 And 10. Practical Math Strategies That Will Help You Solve Everyday Math Problems More Easily How To Use The Plugging In Numbers (PIN) Technique To Make Calculations Without Any Calculator The Right Way To Calculate Discounts On The Fly And Save More While Shopping

Tips And Tricks To Add And Subtract Fractions Faster What Is Trigonometry And How It Can Be Helpful In Physics, Marine Biology, Criminology And Surveying How To Quickly Determine Mean, Median And Standard Deviation In Everyday Life A Complete List Of Conversion Factors To Easily Switch Between Different Units How To Mentally Determine Your Mortgage And Down Payment Amount And Much, Much More Solve Everyday Math Problems More Easily Scroll to the top and select BUY!

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.

Entertaining, easy-to-follow suggestions for developing greater speed and accuracy in doing mathematical calculations. Surefire methods for multiplying without carrying, mastering fractions, working quickly with decimals, handling percentages, and much more.

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

No matter how simple it may be, solving mathematical equations can be a challenge for quite a number of persons. Through his book titled "Secret Of Mental Math Arithmetic: 70 Secrets To Super Speed Calculation & Amazing Math Tricks," Jason

Demonstrates a slew of time-saving tips and tricks for performing common math calculations. Contains sample problems for each trick, leading the reader through step-by-step. Features two mid-terms and a final exam to test your progress plus hundreds of exercise problems ranging from simple to more sophisticated. Also includes sections on “Mathematical Curiosities” and “Parlor Tricks” for math lovers.

The Art of Mental Calculation will make math fun and accessible to students of all levels. Whether as an enrichment program for aspiring math geniuses or fun practice as a classroom supplement, this book will have students excited to practice the joys of mental arithmetic in fun new ways. Following Arthur Benjamin's bestseller Secrets of Mental Math, this new workbook provides over 300 examples and exercises for doing rapid mental addition and subtraction. Through clever writing style, amusing illustrations, and engaging dialogue, the book makes math fun and accessible to everyone. The workbook consists of 20 lessons, 40 reproducible pages, an answer key with full solutions, and a certificate for aspiring mental mathemagicians.

Vedic Mathematics unfolds a new method of approach to mathematics. It is based on sixteen one line formulae known as “sutras” and thirteen one line corollaries known as “upa sutra”. These simple straight forward formulae and techniques help in solving complex mathematical problems in quick and easy steps. The step-by-step easy methods explained in this book help to remove the mathematics phobia commonly present in students and boost their self-confidence. The short techniques elevate the performance level of the students in any exam be it school, college or competitive examination. Salient features: Simple & lucid language Diagrammatic and step-by-step explanation Solved examples for clear understanding Practice exercise & Word of caution in every chapter Time Saving Tricks & Shortcuts Mini Mathematics Refresher Brain racking puzzles

‘Another terrific book by Rob Eastaway’ SIMON SINGH ‘A delightfully accessible guide to how to play with numbers’ HANNAH FRY

Don't live in fear of math any longer. Math Magic makes math what you may never have imagined it to be: easy and fun! Scott Flansburg -- "the Human Calculator" who believes that there are no "mathematical illiterates," just people who have not learned how to make math work for them -- demonstrates how everyone can put their phobia to rest and deal with essential every-day mathematical calculations with confidence. This is the book for millions of otherwise successful adults who are afraid to balance their checkbooks and don't know how to figure interest on savings or credit, and for the millions of students who dread their math classes and live in fear of the SAT math section. In Math Magic, Scott Flansburg shows the reader how to: Master the basics, including the real way addition, subtraction, multiplication, and division work Simplify calculations through estimation Quick-check answers Convert metric measures to more familiar ones Figure tips, taxes, and percentages -- never get short-changed again! Master algebra using the nine easy steps to algebra Math Magic is for all of us who need and want to improve our understanding of math. With the help of Flansburg, the Guinness World Record holder as the Fastest Human Calculator, you can do math just like magic.

Cheng, a former McKinsey management consultant, reveals his proven, insider's method for acing the case interview.

No matter how simple it may be, solving mathematical equations can be a challenge for quite a number of persons. Through his book titled "Secret Of Mental Math Arithmetic: 70 Secrets To Super Speed Calculation & Amazing Math Tricks", Jason Scotts seeks to provide the solution to those mathematical problems. The main challenge has come from the fact that most persons have become used to grabbing a calculator to solve a mathematical problem. As such, the mind has become a bit lazy and it takes a bit of prodding to get it working without having to use a calculator. The text takes everything back to basics and reminds the reader of simple techniques that they were taught in school. This text is a must have in any home as it can help an individual to learn how to conquer those math equations without having the need to reach for a calculator.

Be it calculating the spare change at your local grocery shop or adding travel expenses, an aptitude for quick calculations always comes in handy. Being fast with numbers is always an added advantage, especially when you need to solve questions in a constrained time limit, such as your college exams or even more importantly, entrance and competitive exams. Calculating quickly is not something that you

master overnight, there are tricks that you need to master along with learning time management. That being said, performing calculations within seconds is useful not only for students, but also for professionals, housewives and everyone who wants to learn something new and interesting. GKP's 'Secrets Behind Faster Calculations' by Author Praveen Tyagi is ideal for aspirants of all Government Exams, CAT, GATE, JEE etc. The book has been divided into 10 distinct chapters namely General Tricks, Addition and Subtraction, Multiplication, Squaring, Cubing, Square Root, Cube Root, Division, Percentage and Data Interpretation. All of these contain useful techniques which will assist students in enhancing their calculative ability to the maximum. When applied while practicing with regular study material, the book is going to provide incredible value for students. Features: 10 distinct sections with tips and techniques to do quick calculations Practice Tests to assess learning level Prepared in coherence with the needs of learners and aspirants of various competitive and entrance exams Contents 1. Some Special Tricks (General Tricks) 2. Addition and Subtraction 3. Multiplication 4. Squaring 5. Cubing 6. Square Root 7. Cube Roots 8. Division 9. Percentage 10. Data Interpretation

Think Fast with Vedic Math Secrets and Mental Calculation Tricks! When you read Fast Math, you'll discover Vedic Math Techniques for mastering basic functions: Addition Subtraction Multiplication Division and so much more! With this fascinating guide, you can quickly and easily determine the square roots of perfect square numbers – and perform many other feats of mental gymnastics. These Vedic secrets mean you don't have to memorize mathematical facts anymore. By grasping the inner workings of math structures, you can make sense of all kinds of numbers – without a calculator or a computer! The written addition most of us learn in school relies on simple and slow systems like "carry the 1" to get answers. There is an alternative – Vedic math moves at the speed of thought. Instead of summing columns and moving from right to left, Vedic math starts on the left. Add the largest numbers in your head, remember this figure, sum the smaller numbers – and then just total the figures in your head! By holding numbers in your head while calculating others, you strengthen your working/short-term memory. This mental sharpness pays off in all parts of your life – from remembering names to articulating your thoughts more clearly.

A number sense approach to the four basic operations of arithmetic together with fractions and decimals

Improve test scores, master "real world" math, and stop relying on your calculator! Math Made Easy is a fast and simple approach to mental math and quicker calculation. With sections for both mathophobes and mathletes alike, this unique book will transform the way you do math. This guide is filled with practical tricks that will help you: - Calculate tips mentally with ease - Perform complex math problems entirely in your head - Transform seemingly difficult math into simple equations Do you consider yourself bad at math? There is no such thing as a bad student - only a bad teacher! It's time to give yourself another chance by learning a new way to look at math. We start with addition and subtraction to rebuild your approach from the ground up. Or are you a math champ? Learn new tricks to do problems even faster and perform calculations in your head that will leave everyone impressed. Are you planning to apply to college in the US? The redesigned SAT will include a no-calculator math section - it's going to be more important than ever to be able to do calculations quickly and effectively on your own. Applying to grad school? Good math skills are a must for the GRE and GMAT. Plus, Math Made Easy is filled with practice questions to make sure you've got each technique down. As Socrates said, "Wisdom begins with wonder." Aren't you curious to see what you are capable of?

You don't have to buy this book. Just read this till the end You don't have to buy this book. Just read this till end & you will learn something that will change the way you do math forever. Warning: I am revealing this secret only to the first set of readers who will buy this book & plan to put this secret back inside the book once I have enough sales. So read this until the very end while you still can. School taught you the wrong way to do math The way you were taught to do math, uses a lot of working memory. Working memory is the short term memory used to complete a mental task. You struggle because trying to do mental math the way you were taught in school, overloads your working memory. Let me show you what I mean with an example: Try to multiply the 73201×3 . To do this you multiply the following: $1 \times 3 = 0 \times 3 = 2 \times 3 = 3 \times 3 = 7 \times 3 =$ This wasn't hard, & it might have taken you just seconds to multiply the individual numbers. However, to get the final answer, you need to remember every single digit you calculated to put them back together. It takes effort to get the answer because you spend time trying to recall the numbers you already calculated. Math would be easier to do in your head if you didn't have to remember so many numbers. Imagine when you tried to multiply 73201×3 , if you could have come up with the answer, in the time it took you to multiply the individual numbers. Wouldn't you have solved the problem faster than the time it would have taken you to punch in the numbers inside a calculator? Do the opposite of what you were taught in school The secret of doing mental math is to calculate from left to right instead of from right to left. This is the opposite of what you were taught in school. This works so well because it frees your working memory almost completely. It is called the LR Method where LR stands for Left to Right. Lets try to do the earlier example where we multiplied 73201×3 . This time multiply from left to right, so we get: $7 \times 3 = 21 \times 3 = 93 \times 2 = 60 \times 3 = 03 \times 1 = 3$ Notice that you started to call out the answer before you even finished the whole multiplication problem. You don't have to remember a thing to recall & use later. So you end up doing math a lot faster. The Smart Choice You could use what you learnt & apply it to solve math in the future. This might not be easy, because we just scratched the surface. I've already done the work for you. Why try to reinvent the wheel, when there is already a proven & tested system you can immediately apply. This book was first available in video format & has helped 10,000+ students from 132 countries. It is available at ofpad.com/mathcourse to enroll. This book was written to reach students who consume the information in text format. You can use the simple techniques in this book to do math faster than a calculator effortlessly in your head, even if you have no aptitude for math to begin with. 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 calculations are done 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. Limited Time Bonus Weekly training delivered through email is available for free as a bonus at the end of this book for the first set of readers. Once we have enough readers, this bonus will not be available for free. Why Price Is So Low This book is priced at a ridiculous discount only to get our first set of readers. When we have enough readers the price will go up. Click Buy Now Click "Buy Now" to lock your discounted price & free bonus, or you risk coming back at a later date or even a few minutes from now to see the price go up. Click the yellow button that says "Buy Now" and lets get started.

Requiring no more than a knowledge of high school mathematics and written in clear and accessible language, this book will give all readers a new insight into some of the most enjoyable and fascinating aspects of geometry. Everyone knows what a triangle is, yet very few people appreciate that the common three-sided figure holds many intriguing "secrets." For example, if a circle is inscribed in any random triangle and then three lines are drawn from the three points of tangency to the opposite vertices of the triangle, these lines will always meet at a common point-no matter what the shape of the triangle. This and many more interesting geometrical properties are revealed in this entertaining and illuminating book about geometry. Flying in the face of the common impression that mathematics is usually dry and intimidating, this book proves that this sometimes-daunting, abstract discipline can be both fun and intellectually stimulating. The authors, two veteran math educators, explore the multitude of surprising relationships connected with triangles and show some clever approaches to constructing triangles using a straightedge and a compass. Readers will learn how they can improve their problem-solving skills by performing these triangle constructions. The lines, points, and circles related to triangles harbor countless surprising relationships that are presented here in a very engaging fashion.

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.

Learn how to easily do quick mental math calculations Speed Math for Kids is your guide to becoming a math genius--even if you have struggled with math in the past. Believe it or not, you have the ability to perform lightning quick calculations that will astonish your friends, family, and teachers. You'll be able to master your multiplication tables in minutes, and learn basic number facts while doing it. While the other kids in class are still writing down the problems, you can be calling out the answers. Speed Math for Kids is all about playing with mathematics. This fun-filled book will teach you: * How to multiply and divide large numbers in your head * What you can do to make addition and subtraction easy * Tricks for understanding fractions and decimals * How to quickly check answers every time you make a calculation * And much more If you're looking for a foolproof way to do multiplication, division, factoring estimating, and more, Speed Math for Kids is the book for you. With enough practice you'll go straight to the top of the class!

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.

Clear, concise compendium of about 150 time-saving math short-cuts features faster, easier ways to add, subtract, multiply, and divide. Each problem includes an explanation of the method. No special math ability needed.

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