MENTAL CALCULATION

Yusnier Viera

Secrets of Mental Math Arthur Benjamin, Michael Shermer, 2008-06-03 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 Mental Calculator's Handbook Robert Fountain, Jan van Koningsveld, 2013 Written by two of the world's foremost authorities on mental calculation, The Mental Calculator's Handbook is essential reading for aspiring calculating prodigies. From multiplying fractions to extracting square roots, all the techniques are presented and explained in a clear and rigorous way.

Mental Math Thomas Scofield,2020-11-16 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 Conversio

The Art of Mental Calculation Arthur Benjamin, Natalya Clair, St., 2014-01-08 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 ail 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.

Think Like A Maths Genius Michael Shermer, Arthur Benjamin, 2011-09-01 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.

Secret Of Mental Math Arithmetic: 70 Secrets To Super Speed Calculation & Amazing Math Tricks Jason Scotts,2013-06-29 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.

Fast Math: Learn the Secrets of Mental Math Tim Ander,2017-11-01 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.

Mental Computation and Estimation Charalampos Lemonidis,2015-12-01 Mental calculations and estimations are basic, everyday skills that are essential for real-life arithmetic operations and number sense. This book presents a much needed overview and analysis of mental computation and estimation, drawing on contemporary research and empirical studies that were conducted on students, teachers and adults to cover all aspects of this complex field. Mental Computation and Estimation analyses the implications that are involved in the research, teaching and learning of mathematics and delivers effective practices that will

enhance everyday learning for students. Focusing on a range of international research and studies from the School of Nature and Life Mathematics in Greece, it answers a number of important questions including: What mental calculations and estimations are, why they are important and what other mathematical concepts and cognitive behaviors are they related to? What strategies are used on mental additions, subtractions, multiplications and divisions and how are multiplication tables learned? What are the new trends in the teaching of mental calculation and estimation? An invaluable resource for all those involved in the practice and research of mathematics education, Mental Computation and Estimation will also be a useful tool for researchers, policy makers and developers of educational programs.

Mental Math Abhishek VR,2019-05-19 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 x 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 x 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 x 3 from left to right, starting from 7 x 3 and ending with 1 x 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 x 123 in your head) • Square large numbers in seconds (Example: Calculate 64 x 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.

Basic Course of Mental Arithmetic Yusnier Viera, 2012-05-19 The author, Yusnier Viera, has several World Records in Mental Calculation and has appeared in prestigious TV channels like CNN & ABC. He starred in the Discovery Channel show Super Human Lab in 2012. Viera is willing to teach all his secrets to calculate mentally.

A Mental Arithmetic George Albert Wentworth, 1895

<u>Fast mental calculation tricks</u> EasyMath, Who wouldn't like to master math naturally, being able to do perform mental calculation without the help of a calculator? If you had to calculate the square of 115 in a few seconds what would you answer? Or the product 238x5, or even the square of 76? With this guide you will become masters of fast mental calculation, you will surprise your friends with your skills and you will be astonished when you discover that reaching apparently impossible goals can be achieved with very little effort.

How to be Brilliant at Mental Arithmetic Beryl Webber,2012-10-15 How to be Brilliant at Mental Arithmetic addresses the twin pillars of mental arithmetic - mental recall and mental agility. Mental recall depends on familiarity with number bonds and plenty of opportunity to practise. Mental agility depends more on confidence with the number system and the four operations. Using the worksheets in this book, students will learn about: tens and units; addition, subtraction, multiplication and division; addition shortcuts; product squares; quick recall; number sequences; factors; more and less; approximations; metric and imperial measures.

Painless Mental Math Peter Hollins,2020-05-19 Stop fearing math - tips and tricks to ditch the calculator and never make embarrassing errors again. Mental math is not as hard as you think it is. Well, the way you've been doing it is probably pretty difficult, but there's a better, simpler way. Easily calculate: tax, tips, discounts, weights, conversions, and meaurements. Painless Mental Math is a shortcut to understanding how math really works - far differently from your childhood textbooks. It will give you techniques to use math in the real world, even for those of us traumatized from algebra/geometry/calculus class. There's no fluff in this book, you simply learn the most common ways to quickly calculate. You will also learn about the two most famous mental math frameworks: Vedic math and the Trachtenberg Method. Once you get in the habit, it will be second nature. Never lose money to miscalculating again! Peter Hollins has studied psychology and peak human performance for over a dozen years and is a bestselling author. He has worked with a multitude of individuals to unlock their potential and path towards success. His writing draws on his academic, coaching, and research experience. Complex calculations and equations made simple - your friends will be amazed and confused. *The cause of math anxiety and hatred. *The mindset you need to excel in mental math. *The most common everyday math scenarios and how to handle them effortlessly. *Vedic math, the Trachtenberg Method, and other frameworks to solve complex equations easily. You'll wish you knew these tips when you were still in school! For many of us, math is a subject of extreme lack of confidence. Maybe you didn't go into a career because it is math-heavy. No more. Transform your thinking by learning a few simple tricks. Face math anywhere and anytime. Feel a sense of freedom and empowerment. Stop being intimidated and start taking charge!

The Model Mental Arithmetic for Public and Private Schools C. F. R. Bellows, 1898

Fast & Fun Mental Math Chuck Lotta,2000-05 An experienced math teacher shares the 250 10-minute quizzes he developed that helped boost his students' mental math skills and their scores on standardized tests. Topics covered include addition, subtration, multiplication, division, numeration, patterns, percents,

ratio, rounding, prime numbers, geometry and much more. Includes ready-to-use, reproducible answer sheets. Geared to the NCTM standards. For use with Grades 4-8.

A Mental Arithmetic George Payn Quackenbos, 1872

The Trachtenberg Speed System of Basic Mathematics Jakow Trachtenberg,2011-03-01 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.

Practical Exercises in Mental Arithmetic George Alonzo Mirick, Frank Washington Ballou, Lida Lee Tall, 1920

Secrets of Mental Math - Master The Art Kenneth Paek,2015-01-22 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

This book delves into MENTAL CALCULATION. MENTAL CALCULATION is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into MENTAL CALCULATION, encompassing both the

fundamentals and more intricate discussions.

- 1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to MENTAL CALCULATION
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- 5. In chapter 4, the author will scrutinize the relevance of MENTAL CALCULATION in specific contexts. The fourth chapter will explore how MENTAL CALCULATION is applied in specialized fields, such as education, business, and technology.
- 6. In chapter 5, this book will draw a conclusion about MENTAL CALCULATION. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of MENTAL CALCULATION.

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