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all parts of your life from remembering names to articulating your thoughts more clearly

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 238×5 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

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

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mental math is a skill people practice on a daily basis often subconsciously which involves doing calculations in your head in mental math you don t have to write down elaborate details concerning the variables involved children are usually encouraged to learn mental math skills early in school because being good at mental calculations can make a person successful in many other fields please note that even if being good at mental math does not necessarily signify high intelligence people usually think it does and that perception can help you obtain opportunities for advanced study or career development mental math proficiency is not just good for academic pursuits but also helps make life easier overall this book dives deep into the mechanics of mental math and provides examples that will help the reader build mental math proficiency quickly

can you multiply 362×5 quickly in your head could you readily calculate the square of 41 how much is 635 divided by 2 can 727 648 be

evenly divided by 8 if any of these questions took you more than a few seconds to solve you need this book short cut math is a concise remarkably clear compendium of about 150 math short cuts timesaving tricks that provide faster easier ways to add subtract multiply and divide by using the simple foolproof methods in this volume you can double or triple your calculation speed even if you always hated math in school here s a sampling of the amazingly effective techniques you will learn in minutes adding by 10 groups no carry addition subtraction without borrowing multiplying by aliquot parts test for divisibility by odd and even numbers simplifying dividends and divisors fastest way to add or subtract any pair of fractions multiplying and dividing with mixed numbers and more the short cuts in this book require no special math ability if you can do ordinary arithmetic you will have no trouble with these methods there are no complicated formulas or unfamiliar jargon no long drills or exercises for each problem the author provides an explanation of the method and a step by step solution then the short cut is applied with a proof and an explanation of why it works students teachers businesspeople accountants bank tellers check out clerks anyone who uses numbers and wishes to increase his or her speed and arithmetical agility can benefit from the clear easy to follow techniques given here

psychology of learning and motivation

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do you often feel intimidated by numbers reaching for a calculator for even the simplest equations in a world increasingly driven by data and quick decisions the ability to perform rapid mental calculations isn't just a party trick it's a vital cognitive skill that enhances problem solving boosts confidence and sharpens your mind quantum quickness the art of mental arithmetic invites you to transcend the ordinary and unlock an extraordinary level of numerical fluency transforming your relationship with numbers forever this groundbreaking guide delves beyond mere rote memorization presenting mental arithmetic as an elegant art form authors adeptly blend cutting edge cognitive science with time honored techniques offering a systematic pathway to develop lightning fast calculation abilities discover how to deconstruct complex problems into manageable parts identify patterns and apply ingenious strategies that turn daunting equations into engaging challenges from mastering fundamental operations with unprecedented speed to tackling multi digit multiplication and division in your head quantum quickness provides the tools insights and practice necessary to cultivate genuine numerical prowess more than just a book on math quantum quickness is a comprehensive brain training program it is meticulously designed to enhance your working memory improve concentration and develop a flexible analytical mindset each chapter builds upon the last incorporating practical exercises and real world applications that solidify your understanding and accelerate your progress you'll learn not only how to calculate faster but also why certain methods are more efficient fostering a deeper intuitive grasp of numerical principles prepare to experience a profound shift in your cognitive abilities embrace the challenge and you will not only conquer mental arithmetic but also foster a sharper more agile mind capable of tackling any intellectual obstacle key benefits you will gain from quantum quickness master advanced mental calculation techniques learn systematic efficient methods for rapid addition subtraction multiplication and division boost cognitive function sharpen your memory enhance focus and improve overall brain agility develop numerical confidence overcome math anxiety and build unwavering self assurance in your abilities apply skills to real world scenarios leverage your newfound quickness in daily life work and critical decision making cultivate a quantum mindset adopt strategic thinking and pattern recognition to approach problems with clarity and speed embark on this transformative journey to cultivate not just speed but a deep intuitive understanding of numbers unleash your inner numerical prodigy and discover the true art of mental arithmetic

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 method 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 73201×3 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 732×323 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 7×3 and ending with 1×3 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 323×123 in your head square large numbers in seconds example calculate 64×64 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

mathematics has always accompanied man in his life and accompanies him even more so today not only every time an arithmetic calculation is needed but also in consideration of the manifestations of the surrounding nature which often use well defined mathematical schemes to form and develop quick mental calculation algorithms are useful tools to simplify some calculations using mathematical tricks shortcuts which are based both on simple reasoning and application of basic properties of arithmetic and on more or less complex methodologies to speed up the execution of the calculations avoiding being forced to execute them on sheets of paper by way of example calculating the square of the number 63 in mind can be quite easy by simply calculating the square of 60 and summing the fixed number 9 and six times the number 60 i.e simply calculating the sum $3600\ 360\ 9$ obtaining in this way the result 3969 nothing therefore that cannot be calculated quickly in mind even without a particular mental training another typical very significant example is the fast mental calculation of the square of the numbers ending in the number 5 such as the number 85 well the result will be simply equal to the concatenation of the multiplication between the number that precedes the number 5 and its following number and the fixed number 25 that is it will be equal to 8×9 concatenated with 25 that is equal to 7225 this small guide deals with cases such as those just exposed and aims to provide the reader with many simple and

detailed examples of application of quick mental calculations focusing attention in particular on the squares of numbers and on the multiplication of numbers along with mental training techniques you can thus have an extra gear that if nothing else is a starting point to get closer to the magnificent world of mathematics starting from useful and partly fun concepts of simple understanding in this situation vedic math of which one often hears about is very useful for making very fast multiplications in mind between particular numbers and it is for this reason that sometimes maybe a little improperly one talks about the magic of mathematics or mental tricks for calculation

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