

# MATHEMAICAL SHOWTIME!

INVESTIGATING THE MATH BEHIND NUMERICAL MAGIC TRICKS

## All About Magic Squares

If magic squares are like  
trees in the forest—why aren't  
mathematical numbers?—you will  
find that the numbers are  
arranged in the same  
order, numbers 1 to 9 in the  
odd 3 and you get another  
square.  

One magic square to another  
put the top to the bottom  


## Three-Digit Reverses

What I found out was that  
looked at the numbers in reverse  
order when it was like this:

$$\begin{array}{r} 30 \\ 570 \\ - 214 \\ \hline 199 \end{array} \quad \begin{array}{r} 68 \\ 360 \\ - 152 \\ \hline 207 \end{array} \quad \begin{array}{r} 450 \\ 284 \\ - 192 \\ \hline 192 \end{array}$$

Dozens of Mind-Boggling  
Tricks, Stunts, and Puzzles!

## WHY 3367?

Number	Order
1	3
2	2
3	1
4	6
5	5
6	4
7	7
8	8
9	9

ANSWER

1. 3367  
2. 3367  
3. 3367  
4. 3367  
5. 3367  
6. 3367  
7. 3367  
8. 3367  
9. 3367

## Tattice-Tac Toe Boxes

Score	Box
0	0
1	6
2	14
3	22
4	30
5	38
6	46
7	54
8	62
9	70



ANSWER

3367

## The Power of Seven

Choose a number

13

Any one you

like

Subtract the

original number

What's left?

13

Take the 9

13

9 divided by 9

1

$13 \div 9 = 1$

CARL M. SHERRILL

# Mathemagical Showtime Investigating The Math Behind Numerical Magic Tricks

**Adam Boddison**

## **Mathematical Showtime Investigating The Math Behind Numerical Magic Tricks:**

*Mathematical Showtime!* Carl M. Sherrill,2003 Provides a high interest context for investigating important mathematical ideas with a particular focus on patterns and functions    **Magical Mathematics** Persi Diaconis, Ron Graham, 2015-10-13

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    The Maths Behind the Magic Adam Boddison, 2008

Do you enjoy magic Do you enjoy mathematics If the answer to either or both of these questions is yes then this is a book for you Inside the book you will find a collection of twenty magic tricks that are all based on some mathematics For each trick there is a step by step routine to ensure that the performance you give looks both polished and professional This book is particularly well suited to mathematics teachers who are looking for interesting and original starter activities to use in their lessons Mathematics students from age nine up to university level should also find the book entertaining as the mathematical skills required to appreciate the maths behind the magic are wide ranging    Mathemagics: A Magical Journey Through Advanced Mathematics - Connecting More Than 60 Magic Tricks To High-level Math Ricardo V Teixeira, Jang-woo

Park, 2020-05-29 This delightful book connects mathematical concepts in a dozen areas to magic tricks Expositions of the mathematics precede description and analysis of the tricks The expositions are too short for in depth learning the intent is to give sophomores a taste of the content and ideas of later mathematics courses Each chapter features exercises on the mathematics and students can have fun practicing the tricks Mathematics Magazine 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    **Amazing Math Magic** Oliver Ho,2002 Presents tricks based on maths principles 8 yrs    [The Magic of Math](#) Arthur Benjamin,2015-09-08 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    *It's a Kind of Magic* David Crawford,2009    *Maths Tricks and Number Magic* Chris Wardle,2016-10-30 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    **Math Magic** Sunil Tanna,2016-11-30 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    *Mathematics Magic and Mystery* Martin Gardner,1956    [Math-a-magic](#) Laurence B. White,Ray Broekel,Meyer Seltzer,1990 Provides instructions for twenty magic tricks using numbers with explanations of the mathematics behind each

trick **Mathematical Magic** William Simon,1993-01-01 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 *Mathemagic* Ricardo Teixeira,Jang-Woo Park,2018-03-22 Each chapter is written to quickly show an important feature related to different areas and with direct applications in magic tricks For instance students will study Group Theory with definitions and some key results then they will see them as explanation for a classic magician secret Si Stebbins card system The application to magic tricks has proven very inspiring and students would be less intimidated with advanced topics Some highlights from the chapters are Chapter 1 Mathematical Proofs We use this chapter to set a base for the book it covers proofs by construction contradiction induction and string induction It offers a variety of definitions that will be used throughout the book We relate the material with a generalization of one simple trick and the generalization of a famous Penn and Teller magic trick Chapter 2 Probability we introduce counting principles probability trees hypothesis testing and some very interesting relation to magic tricks Chapter 3 Abstract Algebra finite groups permutation group orbit and a classic magicians secret Si Stebbins We have included twelve tricks to exemplify the material Chapter 4 Linear Algebra inverse matrix rank linearly independence vector spaces eigenvalue and eigenvector and their relation to magic squares Chapter 5 Elementary Number Theory positional systems binary octal hexadecimal arithmetic with other bases There are several magic tricks to illustrate the material from card tricks calendar trick mentalism etc Chapter 6 Advanced Number Theory divisibility prime number primitive roots and their relation to magic tricks through tricks performed by famous mental math expert Arthur Benjamin and Fields Medal recipient Manjul Bhargava Chapter 7 Coding Theory parity check Hamming code expanding Hamming code Double error correction Reed Solomon decoding Fast Fourier Transform and their relation to magic tricks though some original tricks Chapter 8 Geometry Euclidean and Non euclidean geometry symmetries rotations and some tricks Chapter 9 Topology and Knot Theory winding numbers Euler characteristic Konigsburg Bridges Eulerian tours graph invariants and their relation to magic tricks with examples from Martin Gardner Criss Angel and others Chapter 10 Real Analysis sequences series epsilon proofs and their relation to magic tricks We reveal the basis for a magician secret prop that can be related to series Chapter 11 Numerical Analysis Computer arithmetic Bisection Method other methods for finding solutions numerically and magic tricks where readers will learn how to make a gimmick to find cards Chapter 12 History of Math Babylonians Egyptians Greeks Europeans and their relation to magic tricks Each chapter starts with a presentation of a key concept in the area followed by a section on the relationship of the concepts with magic tricks Then some magic tricks are presented and explained Chapter ends with exercises section **Mental Magic** Martin Gardner,Jeff Sinclair,2010-01-14 Offers a collection of math tricks using the magic of numbers in which the marvelous Professor Picanumba can seemingly predict random events in dozens of numerical exercises along with answers at the end

**Self-working Number Magic** Karl Fulves,1983 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

**Mathematical Magic Show** Martin Gardner,1989

**MAGIC OF MATHS (IND ED)** Arthur

Benjamin,2015-09-08 *Magical Math Book* Bob Longe, It seems like magic but it's really math Become a mathematical magician and pull some numerical tricks out of your hat With just a pencil paper and sometimes a calculator you can do the most amazing things Imagine the excitement if you could Guess a person's age correctly Read someone's mind Make accurate predictions Show off an amazing memory This book will show you how to do all that and lots more Besides these sleights of mind you'll get tips on how to set up your audience for the show Best if all you'll learn the secrets behind every amazing maneuver

*Mathematical Showtime* Carl Sherrill,Creative Publications,1995-01-01 Provides a high interest context for investigating important mathematical ideas with a particular focus on patterns and functions

**The Magic of Numbers** Robert Tocquet,1963

## **Mathemagical Showtime Investigating The Math Behind Numerical Magic Tricks** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has been much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Mathemagical Showtime Investigating The Math Behind Numerical Magic Tricks**, a literary masterpiece that delves deep to the significance of words and their affect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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## **Mathemagical Showtime Investigating The Math Behind Numerical Magic Tricks Introduction**

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