

<u>Magical Mathematics The Mathematical Ideas That</u> <u>Animate Great Magic Tricks</u>

Hussin A.Rothana

Magical Mathematics The Mathematical Ideas That Animate Great Magic Tricks:

Magical Mathematics Persi Diaconis, Ron Graham, 2012 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 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 Kitchen Pantry Scientist Math for Kids Rebecca Rapoport, Allanna Chung, 2022-09-27 Math for Kids the fourth book of The Kitchen Pantry Scientist series brings math to life through biography and creative engagement Go beyond counting Solve puzzles learn a magic trick and play a ton of games This engaging quide offers a series of snapshots of 20 mathematicians from ancient history through today paired with related hands on projects perfect for a kitchen or a classroom Each lab tells the story of a mathematician along with some background about the importance of their work and a description of where it is still being used or reflected in today's world A step by step illustrated game or activity paired with each story offers kids an opportunity to engage directly with concepts the mathematicians pursued or are working on today Experiments range from very simple projects using materials you probably already have on hand to more complicated ones that may require a few inexpensive items you can purchase online Just a few of the incredible people and scientific concepts you ll explore Hypatia b 350 370 Square Wheels Florence Nightingale b 1820 Pizza Pie Charts Emmy Noether b 1882 Fabulous Folding Flexagons Ron Graham b 1935 Fibbonacci Spiral Fan Chung b 1949 Corners and Edges and Faces Oh my With this fascinating hands on exploration of the history of mathematics inspire the next generation of great mathematicians Dig into even more incredible science history from The Kitchen Pantry Scientist

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