

Martin Gardner's Sixth Book of
MATHEMATICAL GAMES
from *Scientific American*

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Sixth Of Mathematical Games From Scientific American

Marcel Danesi



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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 is the original 1971 edition and contains columns published in the magazine from 1963 1965 **Aha! A Two Volume Collection** Martin Gardner, 2006-12-14 A collection of puzzles that challenge reasoning power and intuition and help develop problem solving ability **Magnificent Mistakes in Mathematics** Alfred S. Posamentier, Ingmar Lehmann, 2013-08-13 Two veteran math educators demonstrate how some magnificent mistakes had profound consequences for our understanding of mathematics key concepts In the nineteenth century English mathematician William Shanks spent fifteen years calculating the value of pi setting a record for the number of decimal places Later his calculation was reproduced using large wooden numerals to decorate the cupola of a hall in the Palais de la D couverte in Paris However in 1946 with the aid of a mechanical desk calculator that ran for seventy hours it was discovered that there was a mistake in the 528th decimal place Today supercomputers have determined the value of pi to trillions of decimal places This is just one of the amusing and intriguing stories about mistakes in mathematics in this layperson's guide to mathematical principles In another example the authors show that when we prove that every triangle is isosceles we are violating a concept not even known to Euclid that of betweenness And if we disregard the time honored Pythagorean theorem this is a misuse of the concept of infinity Even using correct procedures can sometimes lead to absurd but enlightening results Requiring no more than high school level math competency this playful excursion through the nuances of math will give you a better grasp of this fundamental all important science The Puzzle Instinct Marcel Danesi, 2004-02-20 Humans are the only animals who create and solve puzzles for the sheer pleasure of it and there is no obvious genetic reason why we would do this Marcel Danesi explores the psychology of puzzles and puzzling with scores of classic examples His pioneering book is both

entertaining and enlightening Will Shortz Crossword Editor The New York Times Puzzle fanatics will enjoy the many riddles illusions cryptograms and other mind benders offered for analysis Psychology Today a bristlingly clear always intriguing survey of the history and rationale of puzzles A splendid study Knight Ridder Newspapers

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