

# Problem Solving Through Recreational Mathematics

## Dover Books On Mathematics

### By Averbach Bonnie Chein Orin Mathematics

#### 1999 Paperback

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ranging from ancient greek and roman problems to the most modern applications of special mathematical techniques for amusement this popular volume contains material to delight both beginners and advanced mathematicians its 250 lively puzzles problems situations and demonstrations of recreational mathematics feature full solutions and analyses fifty seven highly unusual historic problems are derived from ancient greek medieval european arabic and hindu sources other problems are based on mathematics

without numbers geometry topology the calendar arithmetic and the mathematics of chess moves fifty pages comprise numerical pastimes built out of figurate numbers mersenne numbers fermat numbers cyclic numbers automorphic numbers and prime numbers probability problems are also fully analyzed more than forty pages are devoted to magic squares and the concluding portion of the book presents more than twenty five new positional and permutational games of permanent value a discussion of fairy chess is followed by rules and procedural information on latruncles go reversi jinx ruma lasca tricolor four story towers tetrachrome and other games more than a collection of wonderful puzzles this volume offers a thorough rigorous and entertaining sampler of recreational mathematics highlighted by numerous insights into specialized fields

guides the reader in understanding the mathematical principles involved in a wide variety of puzzles and card tricks

famed puzzle expert explains math behind a multitude of mystifying tricks card tricks stage mind reading coin and match tricks counting out games geometric dissections etc more than 400 tricks 135 illustrations

fascinating approach to mathematical teaching stresses use of recreational problems puzzles and games to teach critical thinking logic number and graph theory games of strategy much more includes answers to selected problems free solutions manual available for download at the dover website

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number theory proves to be a virtually inexhaustible source of intriguing puzzle problems includes divisors perfect numbers the congruences of gauss scales of notation the pell equation more solutions to all problems

brush up on your math skills with fun games and puzzles

this classic work offers scores of stimulating mind expanding games and puzzles arithmetical and geometrical problems chessboard recreations magic squares map coloring problems cryptography and cryptanalysis much more a must to add to your mathematics library the mathematics teacher index references for further study includes 150 black and white line illustrations

playing with mathematical riddles can be an intriguing and fun filled pastime as popular science writer martin gardner proves in this entertaining collection puzzlists need only an elementary knowledge of math and a will to resist looking up the answer before trying to solve a problem written in a light and witty style entertaining mathematical puzzles is a mixture of old and new riddles grouped into sections that cover a variety of mathematical topics money speed plane and solid geometry probability topology tricky puzzles and more the probability section for example points out that everything we do everything that happens around us obeys the laws of probability geometry puzzles test our ability to think pictorially and often in more than one dimension while topology among the youngest and rowdiest branches of modern geometry offers a glimpse into a strange dimension where properties remain unchanged no matter how a figure is twisted stretched or compressed clear and concise comments at the beginning of each section explain the nature and importance of the math needed to solve each puzzle a carefully explained solution follows each problem in many cases all that is needed to solve a puzzle is the ability to think logically and clearly to be on the alert for surprising off beat angles that strange hidden factor that everyone else had overlooked fully illustrated this engaging collection will appeal to parents and children amateur mathematicians scientists and students alike and may as the author writes make the reader want to study the subject in earnest and explains some of the inviting paths that wind away from the problems into lush areas of the mathematical jungle 65 black and white illustrations

of immense interest to those who enjoy recreational maths and puzzles even the most hardened puzzler will find something new mathematical gazette puzzles are as old as history itself following an arc like that of technology centuries of slow progress followed by rapid expansion in the 1800s and an explosion of activity in the twentieth century this collection by bestselling author david wells a cambridge math scholar and teacher follows that pattern its first part is devoted to puzzles from ancient egypt and babylon and subsequent sources featuring those devised by lewis carroll eduard lucas sam loyd and

other master puzzlers of the victorian era the second part demonstrates the tremendous variety of twentieth century puzzles more than 560 puzzles are included from the mind sharpeners of a medieval monk to the eighteenth century ladies diary the hindu bhakshali manuscript and riddles and popular rhymes none requires any mathematics beyond the most elementary algebra and geometry and few require even that complete answers appear at the end

can you cut an octagon into 5 pieces and rearrange them into a square how about turning a star into a pentagon these are just two of the infinite challenges of geometric dissections the mathematical art of cutting figures into pieces that can be rearranged to form other figures using as few pieces as possible this book shows you many ingenious ways to solve these problems and the beautiful constructions you can create the author explains solution methods carefully assuming only a basic knowledge of high school geometry then poses puzzles for you to solve he also introduces the people who have worked on these problems travelling from the palace school of tenth century baghdad to the mathematical puzzle columns in turn of the century newspapers this beautifully illustrated book will provide hours of enjoyment for any mathematical puzzle enthusiast

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

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