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Puzzles Recreations in the Theory of Numbers Recreational Mathematics
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Recreations Elementary Number Theory with Applications A Gardner's Workout A
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Aaron J. Friedland T. H. O'Beirne Steven Vajda Martin Gardner Albert H. Beiler Greg N.
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William L. Schaaf Kevin Salatino

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fascinating approach to mathematical teaching stresses use of recreational problems
puzzles and games to teach critical thinking logic number and graph theory games of
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guides the reader in understanding the mathematical principles involved in a wide variety of puzzles and card tricks

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over 155 truly challenging conundrums for the expert puzzlist algebraic amusements geometric exercises diophantine diversions problems in logic and deduction probability posers insight puzzles and assorted number theory problems advanced mathematical skills are only sporadically required the majority of problems are accessible to just about anyone 130 woodcut illustrations by ed kysar

presents a collection of mathematical curiosities and puzzles

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these marvelous stimulating games for the mind include geometric paradoxes cube and color arrangement puzzles calendar paradoxes much more detailed solutions prepare readers for puzzles of even greater complexity

this refreshingly authoritative look at recreational mathematics illustrates winning strategies that use the methods of algebra geometry combinatorics number theory graph theory and other branches of mathematics its lucid analyses of the rules and theories of mathematical games include skill enhancing exercises plus references appendixes and detailed explanations 1992 edition

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

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

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

brush up on your math skills with fun games and puzzles

elementary number theory focuses on number theory s role in the rapid development of art coding theory cryptology computer science and other necessities of modern life confirming that human ingenuity and creativity are boundless

for many decades martin gardner the grand master of mathematical puzzles has provided the tools and projects to furnish our all too sluggish minds with an athletic workout gardner s problems foster an agility of the mind as they entertain this volume presents a new collection of problems and puzzles not previously published in book form martin gardner has dedicated it to all the underpaid teachers of mathematics everywhere who love their subject and are able to communicate that love to their students

a groundbreaking examination of mel bochner s inventive drawing practice produced collaboratively with the artist encompassing both works on paper and oversized wall drawings made from the 1960s to the present this handsomely designed volume documents the first ever museum retrospective of drawings by mel bochner b 1940 drawing has long been critical to the work of this pioneering conceptual artist and essayists explore the theoretical framework and playful experimentation of his decades long practice the book conceived and designed in close collaboration with the artist features his own writings about his philosophy of wall drawings and reflections on significant exhibitions of his work bochner was a key figure of the minimalist and conceptual art movements whose first exhibition in 1966 is now recognized as seminal today the artist is known for works in a range of media that explore the conventions of language and visual art as well as the relationships between them his experimental works on paper canvas and wall all of which are celebrated here are a foundational facet of his practice and a critical influence on contemporary art

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