

CAN YOU SOLVE THIS?

$$\boxed{A} + \boxed{B} = 10$$

+

+

$$\boxed{C} - \boxed{D} = 3$$

=

11

=

4

Mathematical Puzzles

Aaron J. Friedland



Mathematical Puzzles:

Entertaining Mathematical Puzzles Martin Gardner, 1986-10 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 explain some of the inviting paths that wind away from the problems into lush areas of the mathematical jungle. 65 black and white illustrations. **Mathematical Puzzles** Sam Loyd, 1959 Bizarre imagination, originality, trickiness, and whimsy characterize puzzles of Sam Loyd, America's greatest puzzler. Present selection from fabulously rare *Cyclopedia* includes the famous 14-15 puzzle, the Horse of a Different Color, and 115 others in various areas of elementary math. 150 period line drawings. *Mathematical Puzzles and Pastimes* Philip Haber, 2023-05-17 A light and witty collection of 113 brainteasers includes the Four Famous Problems and a variety of mathematical topics. Most have solutions, while others are left to the skills of the reader. **Mathematical Puzzles** Peter Winkler, 2021-01-21 Research in mathematics is much more than solving puzzles, but most people will agree that solving puzzles is not just fun; it helps focus the mind and increases one's armory of techniques for doing mathematics. *Mathematical Puzzles* makes this connection explicit by isolating important mathematical methods, then using them to solve puzzles and prove a theorem. Features a collection of the world's best mathematical puzzles. Each chapter features a technique for solving mathematical puzzles, examples, and finally a genuine theorem of mathematics that features that technique in its proof. Puzzles that are entertaining, mystifying, paradoxical, and satisfying; they are not just exercises or contest problems. *My Best Mathematical and Logic Puzzles* Martin Gardner, 2013-04-10 The noted expert selects 70 of his favorite short puzzles, including such mind bogglers as The Returning Explorer, The Mutilated Chessboard, Scrambled Box Tops, and dozens more involving logic and basic math. Solutions included. **Math Puzzles and Brainteasers, Grades 3-5** Terry

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