

Math Puzzles Algebra

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the original title for this work was mathematical literacy what is it and why you need it the current title reflects that there can be no real learning in any subject unless questions of who what when where why and how are raised in the minds of the learners the book is not a mathematical text and there are no assigned exercises or exams it is written for reasonably intelligent and curious individuals both those who value mathematics aware of its many important applications and others who have been inappropriately exposed to mathematics leading to indifference to the subject fear and even loathing these feelings are all consequences of meaningless presentations drill rote learning and being lost as the purpose of what is being studied mathematics education needs a radical reform there is more than one way to accomplish this here the author presents his approach of wrapping mathematical ideas in a story to learn one first must develop an interest in a problem and the curiosity to find how masters of mathematics have solved them what is necessary to be mathematically literate it s not about solving algebraic equations or even making a geometric proof these are valuable skills but not evidence of literacy we often seek answers but learning to ask pertinent questions is the road to mathematical literacy here is the good news new mathematical ideas have a way of finding applications this is known as the unreasonable effectiveness of mathematics

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put your mathematical thinking cap on because even though these puzzles are toughies they take insight and brainwork to solve not a knowledge of calculus or linear algebra or any other kind of advanced math consider for a moment how can you divide a regular pentagon into five identical pentagonal shapes what is the only decade in american history to contain four prime numbered years what three right triangles with integer sides have areas numerically equal to twice their perimeters don t worry if the answers don t spring to mind immediately you ll have plenty of company compute without calculators study the survival of the splittest by arithmetically analyzing a little amoeba reproduction and investigate whether or not a rich man s children are getting a square deal with their inheritance just don t give up because you ll have a lot of satisfaction when you figure them out

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