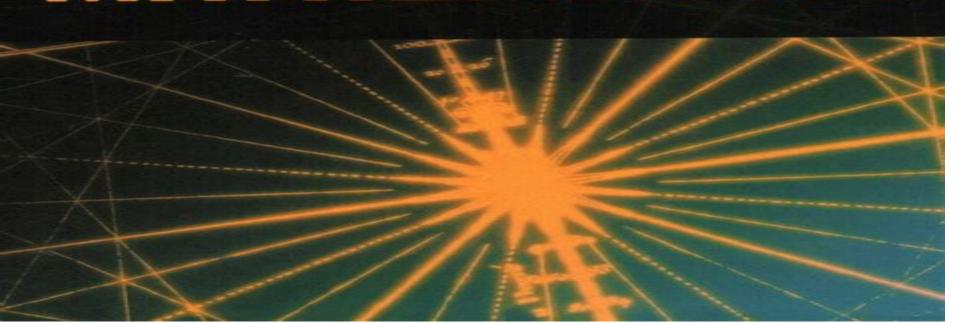
ALFRED S. POSAMENTIER
INGMAR LEHMANN

MAGNIFICENT MISTAKES IN MATHEMATICS



Magnificent Mistakes In Mathematics Ingmar Lehmann

Alfred S Posamentier, Stephen Krulik

Magnificent Mistakes In Mathematics Ingmar Lehmann:

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 Writing on Mathematics 2014 Mircea Pitici, 2015 An anthology of the year's finest writing on mathematics from around the world featuring promising new voices as well as some of the foremost names in mathematics The Mathematics Coach Handbook Alfred S Posamentier, Stephen Krulik, 2018-11-07 Many schools throughout the United States are now employing coaches to support teachers in the teaching of mathematics Very often these are professionals selected from the current teaching ranks who did not receive any special training to serve as a coach This book provides the skills knowledge and lessons from experience that lead such a mentor to function effectively Aside from describing the basic duties of an effective math coach we also provide a plethora of resources to enrich instruction improve problem solving direction and provide teachers with a wide variety of techniques to enhance their teaching effectiveness **Fun Math: Problem Solving Beyond The Classroom** Alfred S Posamentier, 2025-05-05 This book offers high school teachers and students a broad and engaging look at an often maligned subject mathematics Expanding beyond strictly defined curriculums Fun Math Problem Solving Beyond the Classroom explores additional topics that can inspire and motivate students to better appreciate the importance and beauty of mathematics The first four chapters present novel examples in four integral areas of the mathematics curriculum namely arithmetic logic algebra and geometry The last two chapters expose readers to topics in algebra and geometry that have been neglected at the secondary school level Throughout the book the focus is on introducing problem solving techniques that will be useful in everyday life With over 300 problems and carefully worked solutions the book aims to foster a greater appreciation for mathematics through an exploration of useful and fascinating topics rarely addressed in the classroom In other words you can have fun with mathematics Prime Recreations Bruce Pyne, 2019-01-04 Bruce has

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Finally the role of circles in art and architecture and a discussion of the circle's place on the sphere bring full circle this presentation of a key element of geometry

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