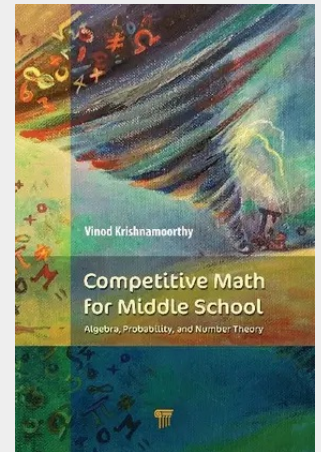


Competitive Math for Middle School

Algebra, Probability, and Number Theory

The 39 self-contained sections in this book present worked-out examples as well as many sample problems categorized by the level of difficulty as Bronze, Silver, and Gold in order to help the readers gauge their progress and learning. Detailed solutions to all problems in each section are provided at the end of each chapter. The book can be used not only as a text but also for self-study. The text covers algebra (solving single equations and systems of equations of varying degrees, algebraic manipulations for creative problem solving, inequalities, basic set theory, sequences and series, rates and proportions, unit analysis, and percentages), probability (counting techniques, introductory probability theory, more set theory, permutations and combinations, expected value, and symmetry), and number theory (prime factorizations and their applications, Diophantine equations, number bases, modular arithmetic, and divisibility). It focuses on guiding students through creative problem-solving and on teaching them to apply their knowledge in a wide variety of scenarios rather than rote memorization of mathematical facts. It is aimed at, but not limited to, high-performing middle school students and goes further in depth and teaches new concepts not otherwise taught in traditional public schools.

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