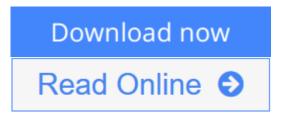
the Art of Problem Solving Prealgebra Solutions Manual Richard Rusczyk David Patrick Ruy Boppan

Prealgebra Solutions Manual

By Richard Rusczyk, David Patrick, Ravi Boppana



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This is the SOLUTIONS MANUAL ONLY for Art of Problem Solving's Prealgebra textbook. Prealgebra prepares students for the rigors of algebra, and also teaches students problem-solving techniques to prepare them for prestigious middle school math contests such as MATHCOUNTS, MOEMS, and the AMC 8. Topics covered in the book include the properties of arithmetic, exponents, primes and divisors, fractions, equations and inequalities, decimals, ratios and proportions, unit conversions and rates, percents, square roots, basic geometry (angles, perimeter, area, triangles, and quadrilaterals), statistics, counting and probability, and more! The text is structured to inspire the reader to explore and develop new ideas. Each section starts with problems, giving the student a chance to solve them without help before proceeding. The text then includes solutions to these problems, through which algebraic techniques are taught. Important facts and powerful problem solving approaches are highlighted throughout the text. In addition to the instructional material, the book contains well over 1000 problems. The solutions manual contains full solutions to all of the problems, not just answers. This book can serve as a complete Prealgebra course.

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- Sales Rank: #22995 in Books
- Brand: Brand: AoPS Incorporated
- Published on: 2011-08-10
- Binding: Paperback
- 224 pages

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Editorial Review

About the Author

Richard Rusczyk is the founder of Art of Problem Solving. He is co-author of the Art of Problem Solving, Volumes 1 and 2 and Intermediate Algebra, and author of Introduction to Algebra, Introduction to Geometry, and Precalculus. He was a national MATHCOUNTS participant in 1985, a three-time participant in the Math Olympiad Summer Program, and a USA Mathematical Olympiad winner in 1989. He is also the co-founder of the Mandelbrot Competition. Mr. Rusczyk is a graduate of Princeton University. David Patrick is an instructor and curriculum developer at Art of Problem Solving. He is the author of Art of Problem Solvings Introduction to Counting & Probability, Intermediate Counting & Probability, and Calculus textbooks. He had the sole perfect score in North America on the 1988 American High School Mathematics Examination, was a USA Mathematical Olympiad winner, and was a top-10 finisher on the William Lowell Putnam Mathematics Competition. Dr. Patrick is a graduate of Carnegie Mellon University and has a Ph.D. in Mathematics from MIT. He taught mathematics at the University of Washington before joining Art of Problem Solving in 2004. Ravi Boppana is the Director of Mathematics at Advantage Testing, as well as the co-founder and co-director of the national Math Prize for Girls competition, sponsored by the Advantage Testing Foundation. He was 27th in the country on the William Lowell Putnam Mathematics Competition. Dr. Boppana received a Ph.D. in Computer Science from MIT at the age of 22. He was a tenured professor at NYU, where he received the Presidential Young Investigator Award for Excellence in Research and the Golden Dozen Award for Excellence in Teaching. His daughter Meena finished second in New York State at MATHCOUNTS and was a USA Math Olympiad qualifier.

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