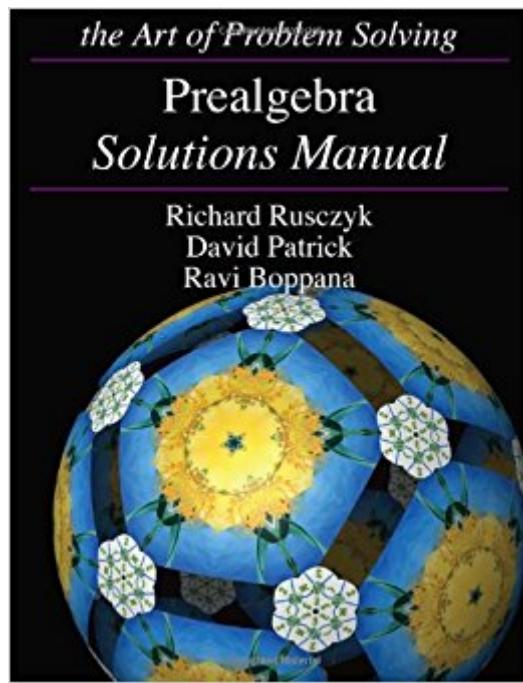


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# Prealgebra Solutions Manual



## Synopsis

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.

## Book Information

Paperback: 224 pages

Publisher: AoPS Incorporated (August 10, 2011)

Language: English

ISBN-10: 1934124222

ISBN-13: 978-1934124222

Package Dimensions: 10.8 x 8.3 x 0.5 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

Average Customer Review: 4.3 out of 5 stars 29 customer reviews

Best Sellers Rank: #15,755 in Books (See Top 100 in Books) #12 in Books > Science & Math > Mathematics > Pure Mathematics > Algebra > Intermediate

## Customer Reviews

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 Solving's 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.

This is a review of the AoP Prealgebra Solutions Manual. That's what you get in this--a whole volume of solutions to chapter end problems and challenge problems as listed in the separate volume "Prealgebra" also produced by AoP (the Art of Problem Solving). This gives full explanations to the problems in the textbook. Do you NEED this? No. If you buy the other book for a class, your teacher may not want you to buy this either, and that might be a good thing to be sure you challenge yourself. But, if you are working through the textbook on your own, this volume is well worth purchasing. There are extra problems you can do online and there are many problems to do and fully explained in the textbook, but being able to look up answers to the chapter end problems and to challenge yourself with the challenge problems and see if you got them right (always a confidence booster when you do!), this volume is invaluable. That's all it is though. No frills, no lesson pages, no wasted space. Could you learn with just this and not the text? Perhaps. But the text gives far more explanations about the hows and whys to do the problems. I don't have much money and so was uncertain about buying this, but now I'm rather glad I purchased this. Thanks AoP!

Yeah, get this too, when you buy Prealgebra, which I've also given five stars. There's a lot of value in seeing fully worked and explained solutions, even if you've already gotten the right answer. The solutions often provide insight into the way a budding top mathematician might think.

The Prealgebra Solutions Manual is a great companion to the Prealgebra book. Since it's always nice to be able to check out the answers, the Prealgebra Solutions Manual is really a must. While many math books include the solutions at the end of the book, the authors of Prealgebra chose not to do so. Instead, they elected to solve sample problems in the text, and let the students work out the exercises on their own -- without looking in the back of the book for the solutions, I suppose.

I bought this book for my 6th grader. There are different levels of difficulty, so that kids get used to progress from easy ones to difficult problems. The problems are not plug-in formula problems. They are more thinking problems, which ask kids to sit down and think thoroughly. There are many examples of Math Counts and AMC problems too. Excellent source for kids who love challenging math practice.

May be 5 stars. My son is almost able to teach himself Pre-Algebra with this book, which is great. It is a bit terse at times, but I think it is very good overall. When he gets tested later this year to see how well he knows the subject and finish up any rough spots, I'll know whether this is 5 stars.

I tutor my grandson who lives in another state via FaceTime; his school uses this textbook. Without it, it would be very difficult to assist him.

great book with detail solution.Great service from the seller.

This is the companion solutions manual to the Author's excellent 'Prealgebra' text. It contains full solutions (not just answers) to every single problem in the main text. (Which is an excellent book, by the way - see my review of that text.)

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