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The Mathematical Olympiad Handbook An Introduction to Problem Solving Based on the First 32 British Mathematical Olympiads A. Gardiner.

G Reviews "I would highly recommend this book for anyone interested in this sort of problem solving. It would be a particularly valuable resource for those who participate in mathematics competitions at the high school or college level. The problems only require basic mathematical knowledge at the high-school level, but the fact that several problems were to be solved in a three-hour period adds a requirement for quick ingenuity to the problem-solving approaches. Although they do not depend on any particular prerequisite skills, the problems are intended for high school students. The book is clearly arranged, with a section on refresher mathematics, a section containing the problems, and a section on hints and solutions. The hints are distinguished from the solutions, so that the reader can read only the hint and continue solving the problem. The author recommends these challenging problems as practice for students who are preparing for competitions. Teachers could also use these problems in middle and high school courses to add rigor to the mathematics curriculum. The book contains a bibliography of other problem-solving books and a listing of the British team members who participated in the International Mathematical Olympiad. Part I overviews mathematics needed, covering numbers, algebra, proofs, elementary number theory, geometry, and trigonometric formulae. Part II presents about 10 problems for each of the 32 years of the competition, and Part III offers hints and worked solutions for problems given in the years through For motivated and talented high school students, especially those preparing for competitions. I would highly recommend this book for anyone interested in this sort of problem solving. It would be a particularly valuable resource for those who participate in mathematics competitions at the high school or college level. One is lecturers or schoolteachers who are looking for something challenging, while still elementary, for their bright students. And the other is bright school students themselves, who will gain a huge amount from trying the problems and reading the commentary. For both audiences, this book is a must-buy. The goal of the book is to introduce students to the world of problem solving, and it does so marvelously. Indeed, problem lovers of all ages and ability levels will find much in this book to entertain and educate I warmly recommend it to all students curious about mathematics, especially those who are bored at school and ready for a challenge. Teachers would find this book to be a welcome resource, as will contest organizers. One is lecturers or schoolteachers who are looking for something challenging, while still elementary, for their bright students. And the other is bright school students themselves, who will gain a huge amount from trying the problems and reading the commentary.

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Olympiads Begun in Hungary in the nineteenth century, Mathematical Olympiads are now held for high school students throughout the world.

Chapter 5 : Tony Gardiner - Wikipedia

The Mathematical Olympiad Handbook introduces readers to these challenging problems and aims to convince them that Olympiads are not just for a select minority. The book contains problems from the first 32 British Mathematical Olympiad (BMO) papers and gives hints and outline solutions to each problem from onwards.

Chapter 6 : The Mathematical Olympiad Handbook : A. Gardiner :

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