

AN EXCURSION IN MATHEMATICS

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for students participating in
Regional Mathematical Olympiad (RMO),
Indian National Mathematical Olympiad (INMO)



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An Excursion In Mathematics

**Gloria Ann Stillman, Werner
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An Excursion through Elementary Mathematics, Volume I Antonio Caminha Muniz Neto, 2018-05-08 This book provides a comprehensive in depth overview of elementary mathematics as explored in Mathematical Olympiads around the world It expands on topics usually encountered in high school and could even be used as preparation for a first semester undergraduate course This first volume covers Real Numbers Functions Real Analysis Systems of Equations Limits and Derivatives and much more As part of a collection the book differs from other publications in this field by not being a mere selection of questions or a set of tips and tricks that applies to specific problems It starts from the most basic theoretical principles without being either too general or too axiomatic Examples and problems are discussed only if they are helpful as applications of the theory Propositions are proved in detail and subsequently applied to Olympic problems or to other problems at the Olympic level The book also explores some of the hardest problems presented at National and International Mathematics Olympiads as well as many essential theorems related to the content An extensive Appendix offering hints on or full solutions for all difficult problems rounds out the book

Mathematical Modelling in Education Research and Practice Gloria Ann Stillman, Werner Blum, Maria Salett Biembengut, 2015-07-20 In this volume cultural social and cognitive influences on the research and teaching of mathematical modelling are explored from a variety of theoretical and practical perspectives The authors of the current volume are all members of the International Community of Teachers of Mathematical Modelling and Applications the peak research body in this field A distinctive feature of this volume is the high number of authors from South American countries These authors bring quite a different perspective to modelling than has been showcased in previous books in this series in particular from a cultural point of view As well as recent international research there is a strong emphasis on pedagogical issues including those associated with technology and assessment in the teaching and learning of modelling Applications at various levels of education are exemplified The contributions reflect common issues shared globally and represent emergent or on going challenges

Speed Maths for Competitive Exams Akhilesh Khare, 2025-03-13 If at any time while doing mathematical calculations you wish to jump through the steps and arrive straight at the answer rather than doing it step by step or one digit at a time then this book is for you Highlights 1 Speed Maths presents entirely new and original methods for quick calculations Designed as a primer for Quantitative Aptitude it is highly beneficial for students preparing for competitive exams 2 To make learning engaging the book includes a professor's story where the professor introduces these innovative methods 3 It features a chapter titled Calendar for Double Century which helps readers easily determine the day of the week for any date in the 20th or 21st century 4 Part 3 introduces a Proportionality formula also known as The All in One Idea which simplifies solving problems related to Profit something

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Bollman,2018-04-17 Mathematics of Keno and Lotteries is an elementary treatment of the mathematics primarily probability and simple combinatorics involved in lotteries and keno Keno has a long history as a high advantage high payoff casino game and state lottery games such as Powerball are mathematically similar MKL also considers such lottery games as passive tickets daily number drawings and specialized games offered around the world In addition there is a section on financial mathematics that explains the connection between lump sum lottery prizes as with Powerball and their multi year annuity options So called winning systems for keno and lotteries are examined mathematically and their flaws identified The Monist Paul Carus,1915 Vols 2 and 5 include appendices **Brain Teasers Mathematics: 100 Puzzles With Solutions**

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Throughout the book the application of mathematical reasoning is emphasized to solve problems while the authors guide the student in thinking about reading and writing proofs in a wide variety of contexts Another important content thread as the sub title implies is the focus on mathematical puzzles games and magic tricks to engage students

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