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Mathematical Olympiad In China (2011-2014): Problems And Solutions *World Scientific* **The International Mathematical Olympiad (IMO) is a very important competition for high school students. China has taken part in the IMO 31 times since 1985 and has won the top ranking for countries 19 times, with a multitude of gold medals for individual students. The six students China has sent every year were selected from 60 students among approximately 300 students who took part in the annual China Mathematical Competition during the winter months. This book includes the problems and solutions of the most important mathematical competitions from 2010 to 2014 in China, such as China Mathematical Competition, China Mathematical Olympiad, China Girls' Mathematical Olympiad. These problems are almost exclusively created by the experts who are engaged in mathematical competition teaching and researching. Some of the solutions are from national training team and national team members, their wonderful solutions being the feature of this book. This book is useful to mathematics fans, middle school students engaged in mathematical competition, coaches in mathematics teaching and teachers setting up math elective courses.** **Nurturing Reflective Learners In Mathematics: Yearbook 2013, Association Of Mathematics Educators** *World Scientific* **This fifth volume in the series of yearbooks by the Association of Mathematics Educators in Singapore entitled Nurturing Reflective Learners in Mathematics is unique in that it focuses on a single theme in mathematics education. The objective is to encourage teachers and researchers to advance reflection among students and teachers in mathematics classrooms. Several renowned international and Singapore researchers in the field have published their work in this volume. The fifteen**

chapters of the book illustrate evidence-based practices that school teachers and researchers can experiment with in their own classrooms to bring about meaningful learning outcomes. Three broad themes, namely fundamentals, instructional tools, and approaches to teaching for nurturing reflective learners in mathematics classrooms, shape the ideas in these chapters. The book makes a significant contribution towards the learning of mathematics. It is a good resource for mathematics teachers, educators and research students. **MATHEMATICAL OLYMPIAD IN CHINA** *American Academic Press* This book introduces the development of the International Mathematical Olympiad in China from 1986 to 2013, especially the questions and answers of all the previous International Mathematical Olympiad since 1986. This book is suitable for the students who want to participate in high school International Maths Olympic, tutors and fans of general mathematics. This reprint has been authorized by Harbin Institute of Technology Press in North America.

Olympiad Champs Mathematics Class 5 with Past Olympiad Questions 3rd Edition *Disha Publications* The thoroughly Revised & Updated 3rd Edition of “Olympiad Champs Mathematics Class 5 with Past Olympiad Questions” is a complete preparatory book not only for Olympiad but also for Class 5 Mathematics. The book is prepared on content based on National Curriculum Framework prescribed by NCERT. This new edition has been empowered with Past Questions from various Olympiad Exams like IMO, IOM, GTSE, etc. in both the exercises of every chapter. Further the book Provides engaging content with the help of Teasers, Do You Know, Amazing Facts & Illustrations, which enriches the reading experience for the children. The questions are divided into two levels Level 1 and Level 2. The first level, Level 1, is the beginner’s level which comprises of questions like fillers, analogy and odd one out. The second level is the advanced level. Level 2 comprises of techniques like matching, chronological sequencing, picture, passage and feature based, statement correct/ incorrect, integer based, puzzle, grid based, crossword, Venn diagram, table/ chart based and much more. Solutions and explanations are provided for all questions.

Olympiad Mathematics Workbook Class-8 *Prabhat Prakashan* The Mathematics Olympiad Workbook (Class-8) has written to help students prepare for the national and International Olympiad, NTSE and for the examination conducted by the CBSE and other boards. Each Chapter starts with mind maps with a quick look (summary), including important formulae wherever applicable, to help students recapitulate what they have learnt. All forms of questions, covering different learning outcomes in multiple-choice questions. It is important that the student go through them, as they will help him or her to prepare for the examination better. After doing given exercise students should attempt to answer the questions of self-evolution test on their own and then check them against the given answers. This way they can evaluate their proficiency and subsequently work on their problem areas.

Oswaal One For All Olympiad Previous Years Solved Papers Class 5 (Set of 5 Books) Maths English Science Reasoning & General Knowledge (For 2022-23 Exam) *Oswaal Books and Learning Private Limited* As per the

Latest Pattern issued by various Exam Conducting Bodies-*ISO, SZF, HO, UIMO, IOEL, ITHO, NSO, IEO, IRAO, NSTSE, SEAMO, IMO, IOS, IGKO, UIEO - Previous years' Solved Papers 2011 to 2020 Assessment through 3 Levels of Questions-- Level 1, Level 2 & Achievers Answer Key with Explanations Amazing Facts, Fun Trivia & 'Did You Know?' Concept Review with Examples Latest Sample Papers with complete solutions APC Perfect PSA (Problem Solving Assessment) for Class 7 - Arya Publications *Arya Publishing Company* Deep Priya Dhillon and R. S. Dhillon's Perfect PSA Problem Solving Assessment with Answers / Solutions / Explanations (Class 7) comprises of relevant study material, solved examples, multiple choice questions, practice papers for students along with answers and explanations, to enable the students learn and practice their skills related to Creative Thinking, Decision Making, Critical Thinking, Problem Solving and Communication. This book is also helpful for candidates attempting competitive examinations for an understanding and practice of Language Conventions, Quantitative Reasoning, Qualitative Reasoning. Problems and Solutions in Mathematical Olympiad: High School 2 *World Scientific* Math Out Loud: An Oral Olympiad Handbook *American Mathematical Soc.* Math Hour Olympiads is a non-standard method of training middle- and high-school students interested in mathematics where students spend several hours thinking about a few difficult and unusual problems. When a student solves a problem, the solution is presented orally to a pair of friendly judges. Discussing the solutions with the judges creates a personal and engaging mathematical experience for the students and introduces them to the true nature of mathematical proof and problem solving. This book recounts the authors' experiences from the first ten years of running a Math Hour Olympiad at the University of Washington in Seattle. The major part of the book is devoted to problem sets and detailed solutions, complemented by a practical guide for anyone who would like to organize an oral olympiad for students in their community. In the interest of fostering a greater awareness and appreciation of mathematics and its connections to other disciplines and everyday life, MSRI and the AMS are publishing books in the Mathematical Circles Library series as a service to young people, their parents and teachers, and the mathematics profession. Olympiad Mathematics Workbook Class-7 *Prabhat Prakashan* The Mathematics Olympiad Workbook (Class-7) has written to help students prepare for the national and International Olympiad, NTSE and for the examination conducted by the CBSE and other boards. Each Chapter starts with mind maps with a quick look (summary), including important formulae wherever applicable, to help students recapitulate what they have learnt. All forms of questions, covering different learning outcomes in multiple-choice questions. It is important that the student go through them, as they will help him or her to prepare for the examination better. After doing given exercise students should attempt to answer the questions of self-evaluation test on their own and then check them against the given answers. This way they can evaluate their proficiency and subsequently work on their problem areas. Olympiad

Champs Mathematics Class 7 with Past Olympiad Questions 2nd Edition *Disha Publications* The thoroughly Revised & Updated 2nd Edition of “Olympiad Champs Mathematics Class 7 with Past Olympiad Questions” is a complete preparatory book not only for Olympiad but also for Class 7 Mathematics. The book is prepared on content based on National Curriculum Framework prescribed by NCERT. This new edition has been empowered with Past Questions from various Olympiad Exams like IMO, IOM, GTSE, etc. in both the exercises of every chapter. Further the book Provides engaging content with the help of Teasers, Do You Know, Amazing Facts & Illustrations, which enriches the reading experience for the children. The questions are divided into two levels Challenge A and Challenge B. The first level, Challenge A, is the beginner’s level which comprises of questions like fillers, analogy and odd one out. The second level is the advanced level. Challenge B comprises of techniques like matching, chronological sequencing, picture, passage and feature based, statement correct/ incorrect, integer based, puzzle, grid based, crossword, Venn diagram, table/ chart based and much more. Solutions and explanations are provided for all questions. **A Guide to Mathematics Olympiad for RMO & INMO 3rd Edition** *Disha Publications* **Olympiad Champs Mathematics Class 3 with Past Olympiad Questions 3rd Edition** *Disha Publications* The thoroughly Revised & Updated 3rd Edition of “Olympiad Champs Mathematics Class 3 with Past Olympiad Questions” is a complete preparatory book not only for Olympiad but also for Class 3 Mathematics. The book is prepared on content based on National Curriculum Framework prescribed by NCERT. This new edition has been empowered with Past Questions from various Olympiad Exams like IMO, IOM, GTSE, etc. in both the exercises of every chapter. Further the book Provides engaging content with the help of Teasers, Do You Know, Amazing Facts & Illustrations, which enriches the reading experience for the children. The questions are divided into two levels Level 1 and Level 2. The first level, Level 1, is the beginner’s level which comprises of questions like fillers, analogy and odd one out. The second level is the advanced level. Level 2 comprises of techniques like matching, chronological sequencing, picture, passage and feature based, statement correct/ incorrect, integer based, puzzle, grid based, crossword, Venn diagram, table/ chart based and much more. Solutions and explanations are provided for all questions. **Olympiad Mathematics Workbook Class-10** *Prabhat Prakashan* The Mathematics Olympiad Workbook (Class-10) has written to help students prepare for the national and International Olympiad, NTSE and for the examination conducted by the CBSE and other boards. Each Chapter starts with mind maps with a quick look (summary), including important formulae wherever applicable, to help students recapitulate what they have learnt. All forms of questions, covering different learning outcomes in multiple-choice questions. It is important that the student go through them, as they will help him or her to prepare for the examination better. After doing given exercise students should attempt to answer the questions of self-evaluation test on their own and then check them against the given answers. This way

they can evaluate their proficiency and subsequently work on their problem areas. **Olympiad Champs Mathematics Class 4 with Past Olympiad Questions 4th Edition** *Disha Publications* **Olympiad Champs Mathematics Class 3 with Past Olympiad Questions 4th Edition** *Disha Publications* **Olympiad Champs Mathematics Class 2 with Past Olympiad Questions 3rd Edition** *Disha Publications* **Olympiad Champs Mathematics Class 7 with Past Olympiad Questions 3rd Edition** *Disha Publications* **School Mathematics Textbooks In China: Comparative Studies And Beyond** *World Scientific* Our collected work contains mathematics education research papers. Comparative studies of school textbooks cover content selection, compilation style, representation method, design of examples and exercises, mathematics investigation, the use of information technology, and composite difficulty level, to name a few. Other papers included are about representation of basic mathematical thought in school textbooks, a study on the compilation features of elementary school textbooks, and a survey of the effect of using new elementary school textbooks. **S.M.A.R.T. Circle Overview** *Springer* This book provides an overview of how to run a Mathematical "Circle," i.e., an organization that discovers and nurtures young mathematical talents through meaningful extra-curricular activities. This is the first volume in a trilogy describing in particular the S.M.A.R.T. Circle project, which was founded in Edmonton, Canada in 1981. The acronym S.M.A.R.T. stands for Saturday Mathematical Activities, Recreations & Tutorials. This book, Volume I, offers a sampling of many aspects, including projects and mini-courses. Volume II, which consists of student projects, addresses the purpose of the Circle, and Volume III, consisting of mini-courses, explains what actually takes place in the Circle. All three volumes provide a wealth of resources (mathematical problems, quizzes and games, together with their solutions). The books will be of interest to self-motivated students who want to conduct independent research, teachers who work with these students, and teachers who are currently running or planning to run Mathematical Circles of their own. **Olympiad Champs Mathematics Class 3 with 5 Online Mock Tests 2nd Edition** *Disha Publications* "Olympiad Champs Mathematics Class 3 with 5 Online Mock Olympiad Tests" is the first of its kind book on Olympiad in many ways. The book is aimed at achieving not only success but deep rooted learning in children. The book is prepared on the content based on National Curriculum Framework prescribed by NCERT. All the text books, syllabi and teaching practices within the education programme in India must follow NCF. Hence, Olympiad Champs become an ideal book not only for the Olympiad Exams but also for strengthening the concepts. There is an exhaustive range of thought provoking questions in MCQ format to test the student's knowledge thoroughly. The questions are designed so as to test the knowledge, comprehension, evaluation, analytical and application skills. Solutions and explanations are provided for all questions. The questions are divided into two levels-Challenge A and Challenge B. The first level, Challenge A, is the beginner's level which comprises of questions like fillers, analogy and odd one out. When the child

covers level A, it means his basic knowledge about the subject is clear and now it is ready for challenge B. The second level is the advanced level. Challenge B comprises of techniques like matching, chronological sequencing, picture, passage and feature based, statement correct/ incorrect, integer based, puzzle, grid based, crossword, Venn diagram, table/ chart based and much more. The first concern which each parent faces is how to make their children read a book especially when it is based on academics. Keeping this in mind interesting facts, real life examples, historical preview and short cut to problem solving, charts, diagrams, illustrations and poems are added. In addition to this the book contains comic strip which increases the readability quotient and make the reading experience for the children more exciting. The book also includes 5 Online Mock Olympiad Tests designed on the pattern of various prominent national Olympiad exams conducted across the various schools in India. With the vision to remove all the misconception a child may have pertaining to the subject, relate his knowledge to the real world and to develop a deeper understanding of the subject this book will cater all the requirements of the students who are going to appear in Olympiads.

Mathematical Olympiad In China (2009-2010): Problems And Solutions *World Scientific* The International Mathematical Olympiad (IMO) is a competition for high school students. China has taken part in the IMO 21 times since 1985 and has won the top ranking for countries 14 times, with a multitude of golds for individual students. The six students China has sent every year were selected from 20 to 30 students among approximately 130 students who took part in the annual China Mathematical Competition during the winter months. This volume of comprises a collection of original problems with solutions that China used to train their Olympiad team in the years from 2009 to 2010. Mathematical Olympiad problems with solutions for the years 2002-2008 appear in an earlier volume, **Mathematical Olympiad in China. Oswaal One For All Olympiad Previous Years' Solved Papers, Class-4 Mathematics Book (For 2022-23 Exam)** *Oswaal Books and Learning Private Limited* As per the Latest Pattern issued by various Exam Conducting Bodies-*ISO, SZF, HO, UIMO, IOEL, ITHO, NSO, IEO, IRAO, NSTSE, SEAMO, IMO, IOS, IGKO, UIEO - Previous years' Solved Papers 2011 to 2020 Assessment through 3 Levels of Questions--Level 1, Level 2 & Achievers Answer Key with Explanations Amazing Facts, Fun Trivia & 'Did You Know?' Concept Review with Examples Latest Sample Papers with complete solutions Intelligent Computer Mathematics MKM, Calculemus, DML, and Systems and Projects 2013, Held as Part of CICM 2013, Bath, UK, July 8-12, 2013, Proceedings *Springer* This book constitutes the joint refereed proceedings of the 20th Symposium on the Integration of Symbolic Computation and Mechanized Reasoning, Calculemus 2013, 6th International Workshop on Digital Mathematics Libraries, DML 2013, Systems and Projects, held in Bath, UK as part of CICM 2013, the Conferences on Intelligent Computer Mathematics. The 7 revised full papers out of 18 submissions for MKM 2013, 5 revised full papers out of 12 submissions for Calculemus 2013, 6 revised full papers out of 8 submissions

for DML 2013, and 12 revised full papers out of 16 submissions for Systems and Project track presented together with 3 invited talks were carefully reviewed and selected, resulting in 33 papers from a total of 73 submissions. Olympiad Champs Mathematics Class 1 with Past Olympiad Questions 2nd Edition *Disha Publications* The thoroughly Revised & Updated 2nd Edition of "Olympiad Champs Mathematics Class 1 with Past Olympiad Questions" is a complete preparatory book not only for Olympiad but also for Class 1 Mathematics. The book is prepared on content based on National Curriculum Framework prescribed by NCERT. This new edition has been empowered with Past Questions from various Olympiad Exams like IMO, IOM, GTSE, etc. in both the exercises of every chapter. Further the book Provides engaging content with the help of Teasers, Do You Know, Amazing Facts & Illustrations, which enriches the reading experience for the children. The questions are divided into two levels Level 1 and Level 2. The first level, Level 1, is the beginner's level which comprises of questions like fillers, analogy and odd one out. The second level is the advanced level. Level 2 comprises of techniques like matching, chronological sequencing, picture, passage and feature based, statement correct/ incorrect, integer based, puzzle, grid based, crossword, Venn diagram, table/ chart based and much more. Solutions and explanations are provided for all questions. Olympiad Champs Mathematics Class 1 with Past Olympiad Questions 3rd Edition *Disha Publications* Mathematical Olympiad in China Problems and Solutions *World Scientific* Oswaal One For All Olympiad Previous Years' Solved Papers, Class-2 Mathematics Book (For 2022-23 Exam) *Oswaal Books and Learning Private Limited* As per the Latest Pattern issued by various Exam Conducting Bodies-*ISO, SZF, HO, UIMO, IOEL, ITHO, NSO, IEO, IRAO, NSTSE, SEAMO, IMO, IOS, IGKO, UIEO - Previous years' Solved Papers 2011 to 2020 Assessment through 3 Levels of Questions--Level 1, Level 2 & Achievers Answer Key with Explanations Amazing Facts, Fun Trivia & 'Did You Know?' Concept Review with Examples Latest Sample Papers with complete solutions Integers Annual Volume 2013 *Walter de Gruyter GmbH & Co KG* "Integers" is a refereedonline journal devoted to research in the area of combinatorial number theory. It publishes original research articles in combinatorics and number theory. Topics covered by the journal include additive number theory, multiplicative number theory, sequences and sets, extremal combinatorics, Ramsey theory, elementary number theory, classical combinatorial problems, hypergraphs, and probabilistic number theory. Integers also houses a combinatorial games section. This work presents all papers of the 2013 volume in book form. Study Guide for CTET Paper 2 (Class 6 - 8 Teachers) Mathematics/ Science with Past Questions *Disha Publications* Olympiad Champs Mathematics Class 8 with Past Olympiad Questions 4th Edition *Disha Publications* Olympiad Champs Mathematics Class 8 with Past Olympiad Questions 3rd Edition *Disha Publications* The thoroughly Revised & Updated 3rd Edition of "Olympiad Champs Mathematics Class 8 with Past Olympiad Questions" is a complete preparatory book not only for Olympiad but also for Class 8 Mathematics. The book is prepared on content

based on National Curriculum Framework prescribed by NCERT. This new edition has been empowered with Past Questions from various Olympiad Exams like IMO, IOM, GTSE, etc. in both the exercises of every chapter. Further the book Provides engaging content with the help of Teasers, Do You Know, Amazing Facts & Illustrations, which enriches the reading experience for the children. The questions are divided into two levels Level 1 and Level 2. The first level, Level 1, is the beginner's level which comprises of questions like fillers, analogy and odd one out. The second level is the advanced level. Level 2 comprises of techniques like matching, chronological sequencing, picture, passage and feature based, statement correct/ incorrect, integer based, puzzle, grid based, crossword, Venn diagram, table/ chart based and much more. Solutions and explanations are provided for all questions. **Mental Ability for NTSE & Olympiad Exams for Class 10 (Quick Start for Class 6, 7, 8, & 9) 2nd Edition** *Disha Publications* The thoroughly Revised & Updated **Mental Ability for NTSE & Olympiad Exams for Class 10 (Quick Start for Class 6, 7, 8, & 9) 2nd Edition** for class 10 is a comprehensive book written exclusively for students of all states preparing for the Stage 1 of the NTSE examination. The students can start using this book right from Grade 6. The book provides learning of all the concepts involved in the syllabus of NTSE examination for the Mental Ability Test (MAT). The book helps the students not only in building their APTITUDE but will also help in developing their ANALYTICAL SKILLS. Salient features of the book: • There are 26 chapters followed by Mock Tests for Stage 1 & 2. • The book provides sufficient point-wise theory, solved examples followed by FULLY SOLVED exercises in 2 levels Basic & Advance level. • Maps, Diagrams and Tables to stimulate the thinking ability of the student. • The book incorporates EXEMPLAR PROBLEMS IN MAT from various State NTSE exams, Stage 2 Past Questions in exercises. • The book provides 2 Mock Tests of MAT for the State NTSE and 3 for the 2nd Stage. **The Math Myth And Other STEM Delusions** *New Press, The* A New York Times-bestselling author looks at mathematics education in America—when it's worthwhile, and when it's not. Why do we inflict a full menu of mathematics—algebra, geometry, trigonometry, even calculus—on all young Americans, regardless of their interests or aptitudes? While Andrew Hacker has been a professor of mathematics himself, and extols the glories of the subject, he also questions some widely held assumptions in this thought-provoking and practical-minded book. Does advanced math really broaden our minds? Is mastery of azimuths and asymptotes needed for success in most jobs? Should the entire Common Core syllabus be required of every student? Hacker worries that our nation's current frenzied emphasis on STEM is diverting attention from other pursuits and even subverting the spirit of the country. Here, he shows how mandating math for everyone prevents other talents from being developed and acts as an irrational barrier to graduation and careers. He proposes alternatives, including teaching facility with figures, quantitative reasoning, and understanding statistics. Expanding upon the author's viral New York Times op-ed, *The Math Myth* is sure to spark a

heated and needed national conversation—not just about mathematics but about the kind of people and society we want to be. “Hacker’s accessible arguments offer plenty to think about and should serve as a clarion call to students, parents, and educators who decry the one-size-fits-all approach to schooling.” —Publishers Weekly, starred review

Eastern European Mathematics Education in the Decades of Change *Springer Nature* This contributed volume is devoted to the recent history and evolution of mathematics education in Eastern Europe, exploring how it was influenced by social and political changes in this part of the world. Despite the broad recognition of the importance of these changes, little scholarship exists that examines the ways in which they were followed by changes in the teaching of mathematics in the post-socialist countries. Indeed, the analyzed processes are complex and vary across the states. Accordingly, this book touches on many factors—including differences in cultures and traditions - that find expression in the teaching of mathematics. Specifically, this volume seeks to explore what changes there were in education in general and in the position of mathematics in school education in these years, and how these changes may be explained and documented; what changes there were in the content of mathematics education and its assessment, and how were they motivated and adopted; what new textbooks appeared and what new methodological ideas were offered in them; how and why mathematics teacher education and/or professional development changed; what was the role (if any) of foreign influences on mathematics education, etc. The book will be of interest to both researchers in mathematics education and practitioners-teachers, as well as a broader audience of historians and educators exploring the political aspects of education.

The Role of Gender in Educational Contexts and Outcomes *Elsevier* Volume 47 of **Advances in Child Development and Behavior** includes chapters that highlight some the most recent research in the area of gender in educational, contexts and outcomes. A wide array of topics are discussed in detail, including sexism, race and gender issues, sexual orientation, single-sex education, and physical education. Each chapter provides in-depth discussions, and this volume serves as an invaluable resource for developmental or educational psychology researchers, scholars, and students. Chapters that highlight some of the most recent research in the area. A wide array of topics are discussed in detail

Irish Mathematical Olympiad Manual *Lulu.com* **Oswaal One For All Olympiad Previous Years Solved Papers Class 2 (Set of 5 Books) Maths English Science Reasoning & General Knowledge (For 2022-23 Exam)** *Oswaal Books and Learning Private Limited* As per the Latest Pattern issued by various Exam Conducting Bodies-*ISO, SZF, HO, UIMO, IOEL, ITHO, NSO, IEO, IRAO, NSTSE, SEAMO, IMO, IOS, IGKO, UIEO - Previous years’ Solved Papers 2011 to 2020 Assessment through 3 Levels of Questions--Level 1, Level 2 & Achievers Answer Key with Explanations Amazing Facts, Fun Trivia & ‘Did You Know?’ Concept Review with Examples Latest Sample Papers with complete solutions Maths Olympiad Contest Problems Mathematical Circle Diaries, Year 1 Complete Curriculum for

Grades 5 to 7 *American Mathematical Soc.* Early middle school is a great time for children to start their mathematical circle education. This time is a period of curiosity and openness to learning. The thinking habits and study skills acquired by children at this age stay with them for a lifetime. Mathematical circles, with their question-driven approach and emphasis on creative problem-solving, have been rapidly gaining popularity in the United States. The circles expose children to the type of mathematics that stimulates development of logical thinking, creativity, analytical abilities and mathematical reasoning. These skills, while scarcely touched upon at school, are in high demand in the modern world. This book contains everything that is needed to run a successful mathematical circle for a full year. The materials, distributed among 29 weekly lessons, include detailed lectures and discussions, sets of problems with solutions, and contests and games. In addition, the book shares some of the know-how of running a mathematical circle. The curriculum, which is based on the rich and long-standing Russian math circle tradition, has been modified and adapted for teaching in the United States. For the past decade, the author has been actively involved in teaching a number of mathematical circles in the Seattle area. This book is based on her experience and on the compilation of materials from these circles. The material is intended for students in grades 5 to 7. It can be used by teachers and parents with various levels of expertise who are interested in teaching mathematics with the emphasis on critical thinking. Also, this book will be of interest to mathematically motivated children. In the interest of fostering a greater awareness and appreciation of mathematics and its connections to other disciplines and everyday life, MSRI and the AMS are publishing books in the Mathematical Circles Library series as a service to young people, their parents and teachers, and the mathematics profession.