



Division

M

Mathematical Olympiads

December 13, 2017

for Elementary & Middle Schools

Contest

2

Directions to Students: After all questions have been read by your PICO, you will have 30 minutes to complete this contest. You may not have a pen or pencil in your hand while the PICO reads the set of questions to the class. Calculators are not permitted. All work is to be done on the pages provided. No additional scrap paper is to be used. Answers must be placed in the corresponding boxes in the answer column.

Name: _____

2A Reduce the complex fraction to a common fraction in

lowest terms: $\frac{\frac{2}{3 + \frac{4}{1 - \frac{1}{5}}}}{\frac{1}{5}}$ [Hint: Start with $1 - \frac{1}{5}$]

2B A palindrome reads the same forwards and backwards. The number 2017102 is a 7-digit palindrome. Let A represent the least palindrome greater than 2017102. Let B represent the greatest palindrome less than 2017102. Find $A - B$.

2C Thirty-six points are arranged in a unit-square array as shown. Figure $ABCDE$ is composed entirely of straight-line segments with vertices A , B , C , D , and E .



Find the number of degrees in the sum of the interior angles of figure $ABCDE$. [The interior angle at D is a reflex angle whose measure is greater than 180° .]

Math Olympiad Problems For Elementary

Ellina Grigorieva



Math Olympiad Problems For Elementary:

Math Olympiad Contest Problems for Elementary and Middle Schools George Lenchner, 1997 **Mathematical Olympiads for Elementary School** Michael C. G., 2021-02-12 This problem book is a collection of 550 math olympiad problems with six levels of difficulty And it is especially aimed at schoolchildren between 6 and 11 years old so that the students interested either in preparing for a math competition or simply in practicing entertaining problems to improve their math skills challenge themselves to solve these interesting problems This problem book is ideal and widely recommended for elementary school children in upper grades or even middle school students with little or no experience in Math Olympiads and who require comprehensive preparation for any math competition Likewise it can also be useful for teachers parents and math study circles Thus a total of 550 problems with answers are made available to the students for their comprehensive and rigorous preparation which are divided into six levels of difficulty 0 5 where each level of difficulty 1 5 includes problems corresponding to their respective school grade while level 0 includes a set of adaptation problems for beginners in math olympiads The students without experience in Math Olympiads are encouraged to start from the level 0 regardless of their current school grade In addition ten exams are included for each level of difficulty where each exam consists of 8 problems except those of the level 5 whose exams consist of 15 problems To be able to face these problems successfully no greater knowledge is required than that covered in the school curriculum however many of these problems require an ingenious approach to be tackled successfully Students are encouraged to keep trying to solve each problem as a personal challenge as many times as necessary and to parents who continue to support their children in their disciplined preparation Once an answer is obtained it can be checked against the answers given after each group of exams MOEMS Math Contest Problems 5-Book Set Richard Kalman, Nicholas J. Restivo, 2019-06-25 Math Olympiads for Elementary and Middle Schools 5 Book Set Math Olympiads MOEMS Contest Problems 1 Math Olympiads MOEMS Contest Problems 2 Math Olympiads MOEMS Contest Problems 3 Math Olympiad MOEMS Creative Problem Solving The Fifth Book is a Surprise Horrible Book from the Horrible Books Humorously Educational Series that covers Math Science Geography History and Biography that will totally complement your child s love for learning Mathematical Olympiads for Elementary School 3 - Third Grade Michael C. G., 2020-12-24 The Mathematical Olympiads for Elementary School are open mathematical Olympiads for students from 1st to 4th grade of elementary school and they have been held every year in the city of Moscow since 1996 their first editions taking place in the facilities of the Moscow State University Maly Mekhmat Although initially these Olympiads were conceived for students of a study circle of elementary school then it was extended to students in general since 2005 Being the Technological University of Russia MIREA its main headquarters today Likewise these Olympiads consist of two rounds a qualifying round and a final round both consisting of a written exam The problems included in this book correspond to the final round of these Olympiads for the 3rd grade of elementary school In this workbook has been compiled all the Olympiads

held during the years 2011-2020 and is especially aimed at schoolchildren between 8 and 9 years old with the aim that the students interested either in preparing for a math competition or simply in practicing entertaining problems to improve their math skills challenge themselves to solve these interesting problems recommended even to elementary school children in upper grades with little or no experience in Math Olympiads and who require comprehensive preparation before a competition or it could even be used for a self evaluation in this competition trying the student to solve the greatest number of problems in each exam in a maximum time of 1.5 hours. It can also be useful for teachers, parents and math study circles. The book has been carefully crafted so that the student can work on the same book without the need for additional sheets what will allow the student to have an orderly record of the problems already solved. Each exam includes a set of 8 problems from different school math topics. To be able to face these problems successfully no greater knowledge is required than that covered in the school curriculum however many of these problems require an ingenious approach to be tackled successfully. Students are encouraged to keep trying to solve each problem as a personal challenge as many times as necessary and to parents who continue to support their children in their disciplined preparation. Once an answer is obtained it can be checked against the answers given at the end of the book.

Mathematical Olympiads for Elementary School 5 - Fifth Grade

Michael C. G., 2020-12-28. The Mathematical Olympiads for the Fifth Grade of Elementary School discussed here are none other than the Open Mathematical Olympiads of the City for the 5th grade which are held every year in the city of Moscow since 2007 at the facilities of the Technological University of Russia MIREA. These Olympiads consist of two independent rounds: one written and one oral. Likewise the problems included here correspond to the written round which presents two levels of difficulty of 10 and 5 problems respectively. In this workbook has been compiled all the Olympiads held during the years 2011-2020 and is especially aimed at schoolchildren between 10 and 11 years old with the aim that the students interested either in preparing for a math competition or simply in practicing entertaining problems to improve their math skills challenge themselves to solve these interesting problems recommended even to middle school students with little or no experience in Math Olympiads and who require comprehensive preparation before a competition or it could even be used for a self evaluation in this competition trying the student to solve the greatest number of problems in each exam in a maximum time of 2 hours. It can also be useful for teachers, parents and math study circles. The book has been carefully crafted so that the student can work on the same book without the need for additional sheets what will allow the student to have an orderly record of the problems already solved. Each exam includes a set of 15 problems from different school math topics. To be able to face these problems successfully no greater knowledge is required than that covered in the school curriculum however many of these problems require an ingenious approach to be tackled successfully. Students are encouraged to keep trying to solve each problem as a personal challenge as many times as necessary and to parents who continue to support their children in their disciplined preparation. Once an answer is obtained it can be checked against the answers given at the end

of the book **Mathematical Olympiads for Elementary School 2 - Second Grade** Michael C. G.,2020-12-20 The Mathematical Olympiads for Elementary School are open mathematical Olympiads for students from 1st to 4th grade of elementary school and they have been held every year in the city of Moscow since 1996 their first editions taking place in the facilities of the Moscow State University Maly Mekhmat Although initially these Olympiads were conceived for students of a study circle of elementary school then it was extended to students in general since 2005 Being the Technological University of Russia MIREA its main headquarters today Likewise these Olympiads consist of two rounds a qualifying round and a final round both consisting of a written exam The problems included in this book correspond to the final round of these Olympiads for the 2nd grade of elementary school In this workbook has been compiled all the Olympiads held during the years 2011 2020 and is especially aimed at schoolchildren between 7 and 8 years old with the aim that any student interested in mathematics either in preparing for a competition or in simply practicing entertaining problems to improve his math skills challenging himself to solve these interesting problems recommended even to elementary school children in upper grades with little or no experience in Math Olympiads and who require comprehensive preparation before a competition or it could even be used for a self evaluation in this competition trying the student to solve the greatest number of problems in each exam in a maximum time of 1 5 hours It can also be useful for teachers parents and study circles in mathematics The book has been carefully crafted so that the student can work on the same book without the need for additional sheets What will allow the student to have an orderly record of the problems already solved Each exam includes a set of 8 problems from different school math topics To be able to face these problems successfully no greater knowledge is required than that covered in the school curriculum however many of these problems require an ingenious approach to be tackled successfully Students are encouraged to keep trying to solve each problem as a personal challenge as many times as necessary and to parents who continue to support their children in their disciplined preparation Once an answer is obtained you can check it against the answers given at the end of the book **Mathematical Olympiads for Elementary School 1 - First Grade** Michael C. G.,2020-12-11 The Mathematical Olympiads for Elementary School are open mathematical Olympiads for students from 1st to 4th grade of elementary school and they have been held every year in the city of Moscow since 1996 their first editions taking place in the facilities of the Moscow State University Maly Mekhmat Although initially these Olympiads were conceived for students of a study circle of elementary school then it was extended to students in general since 2005 Being the Technological University of Russia MIREA its main headquarters today Likewise these Olympiads consist of two rounds a qualifying round and a final round both consisting of a written exam The problems included in this book correspond to the final round of these Olympiads for the 1st grade of elementary school In this workbook has been compiled all the Olympiads held during the years 2011 2020 and is especially aimed at schoolchildren between 6 and 7 years old with the aim that any student interested in mathematics either in preparing for a competition or in simply practicing entertaining problems to

improve his math skills challenging himself to solve these interesting problems recommended even to elementary school children in upper grades with little or no experience in Math Olympiads and who require comprehensive preparation before a competition or it could even be used for a self evaluation in this competition trying the student to solve the greatest number of problems in each exam in a maximum time of 1 hour It can also be useful for teachers parents and study circles in mathematics The book has been carefully crafted so that the student can work on the same book without the need for additional sheets What will allow the student to have an orderly record of the problems already solved Each exam includes a set of 8 problems from different school math topics To be able to face these problems successfully no greater knowledge is required than that covered in the school curriculum however many of these problems require an ingenious approach to be tackled successfully Students are encouraged to keep trying to solve each problem as a personal challenge as many times as necessary and to parents who continue to support their children in their disciplined preparation Once an answer is obtained you can check it against the answers given at the end of the book

The USSR Olympiad Problem Book D. O.

Shklarsky,N. N. Chentzov,I. M. Yaglom,2013-04-15 Over 300 challenging problems in algebra arithmetic elementary number theory and trigonometry selected from Mathematical Olympiads held at Moscow University Only high school math needed Includes complete solutions Features 27 black and white illustrations 1962 edition Mathematical Olympiad Challenges

Titu Andreescu,Razvan Gelca,2008-12-04 Hundreds of beautiful challenging and instructive problems from algebra geometry trigonometry combinatorics and number theory Historical insights and asides are presented to stimulate further inquiry Emphasis is on creative solutions to open ended problems Many examples problems and solutions with a user friendly and accessible style Enhanced motivation References *Methods of Solving Number Theory Problems* Ellina

Grigorieva,2018-07-06 Through its engaging and unusual problems this book demonstrates methods of reasoning necessary for learning number theory Every technique is followed by problems as well as detailed hints and solutions that apply theorems immediately so readers can solve a variety of abstract problems in a systematic creative manner New solutions often require the ingenious use of earlier mathematical concepts not the memorization of formulas and facts Questions also often permit experimental numeric validation or visual interpretation to encourage the combined use of deductive and intuitive thinking The first chapter starts with simple topics like even and odd numbers divisibility and prime numbers and helps the reader to solve quite complex Olympiad type problems right away It also covers properties of the perfect amicable and figurate numbers and introduces congruence The next chapter begins with the Euclidean algorithm explores the representations of integer numbers in different bases and examines continued fractions quadratic irrationalities and the Lagrange Theorem The last section of Chapter Two is an exploration of different methods of proofs The third chapter is dedicated to solving Diophantine linear and nonlinear equations and includes different methods of solving Fermat's Pell's equations It also covers Fermat's factorization techniques and methods of solving challenging problems involving exponent

and factorials Chapter Four reviews the Pythagorean triple and quadruple and emphasizes their connection with geometry trigonometry algebraic geometry and stereographic projection A special case of Waring's problem as a representation of a number by the sum of the squares or cubes of other numbers is covered as well as quadratic residuals Legendre and Jacobi symbols and interesting word problems related to the properties of numbers Appendices provide a historic overview of number theory and its main developments from the ancient cultures in Greece Babylon and Egypt to the modern day Drawing from cases collected by an accomplished female mathematician Methods in Solving Number Theory Problems is designed as a self study guide or supplementary textbook for a one semester course in introductory number theory It can also be used to prepare for mathematical Olympiads Elementary algebra arithmetic and some calculus knowledge are the only prerequisites Number theory gives precise proofs and theorems of an irreproachable rigor and sharpens analytical thinking which makes this book perfect for anyone looking to build their mathematical confidence

Mathematical Olympiads for Elementary School 4 - Fourth Grade Michael C. G., 2020-12-28 The Mathematical Olympiads for Elementary School are open mathematical Olympiads for students from 1st to 4th grade of elementary school and they have been held every year in the city of Moscow since 1996 their first editions taking place in the facilities of the Moscow State University Maly Mekhmat Although initially these Olympiads were conceived for students of a study circle of elementary school then it was extended to students in general since 2005 Being the Technological University of Russia MIREA its main headquarters today Likewise these Olympiads consist of two rounds a qualifying round and a final round both consisting of a written exam The problems included in this book correspond to the final round of these Olympiads for the 4th grade of elementary school In this workbook has been compiled all the Olympiads held during the years 2011 2020 and is especially aimed at schoolchildren between 9 and 10 years old with the aim that any student interested in mathematics either in preparing for a competition or in simply practicing entertaining problems to improve his math skills challenging himself to solve these interesting problems recommended even to elementary school children in upper grades with little or no experience in Math Olympiads and who require comprehensive preparation before a competition or it could even be used for a self evaluation in this competition trying the student to solve the greatest number of problems in each exam in a maximum time of 2 hours It can also be useful for teachers parents and study circles in mathematics The book has been carefully crafted so that the student can work on the same book without the need for additional sheets What will allow the student to have an orderly record of the problems already solved Each exam includes a set of 8 problems from different school math topics To be able to face these problems successfully no greater knowledge is required than that covered in the school curriculum however many of these problems require an ingenious approach to be tackled successfully Students are encouraged to keep trying to solve each problem as a personal challenge as many times as necessary and to parents who continue to support their children in their disciplined preparation Once an answer is obtained you can check it against the answers given at the end of the book

The Original

Collection of Math Contest Problems Orange County Math Circle, Eric Xu, Michelle Chen, Victor Chen, Benjamin Chen, Jason Ye, Lia Tian, Po-Shen Loh, 2014-11-11 Written for the student searching for new competition math tactics the coach or teacher hoping to find a wealth of problems or simply someone seeking to keep practicing and improving his math skills The Original Collection of Math Contest Problems is used by elementary and middle school students to excel in MATHCOUNTS Math Olympiads and beyond Covering the areas of Algebra Geometry Counting and Probability and Number Sense over 500 examples and problems with fully explained solutions represent the commonly seen competition questions and essential strategies experienced and developed by all the authors throughout their math careers from MATHCOUNTS to the USA J MO **Articles and Excerpts, Volume 1** AoPS Incorporated, 2006 **Mathematical Olympiad Problems** Jagat Narain Kapur, 1991 MOEMS® Contest Problems Richard Kalman, Nicholas/J Restivo, 2014 Division E and Division M Contests from school years 2005 06 through 2012 13 **Mathematics Teaching in the Middle School**, 2008-08

Academic Competitions for Gifted Students Mary K. Tallent-Runnels, Ann C. Candler-Lotven, 2007-11-19 This handbook covers 170 competitions criteria for selecting events that match students strengths weaknesses strategies for maximizing the benefits of competitions and ways to avoid potential problems Mathematical Olympiads for Beginning Students Michael C. G., 2021-03-15 Mathematical Olympiads for Beginning Students The Zeroth Book for Elementary Schoolers is an initiative that arises at the suggestion of parents and teachers to want to count on a practical study material for the training of future Math Olympians who currently have nascent math skills This problem book is a collection of 400 select problems with five levels of difficulty covering the complete training program for beginners and is especially aimed at elementary school children between 6 and 11 years old with little or no experience in Math Olympiads who seek to strengthen their math skills and become a Math Olympian It may even be of great help for beginners in math for whom it may be their first book on the subject Each level consists of a set of 10 exams where each exam consists of 8 problems inspired by problems from Math Olympiads around the world Further an answer sheet is included after each exam and at the end of the book the student will find the answers to all the problems proposed in it It is worth mentioning that this problem book is a comprehensive preparation material that is anyone who begins with this training program is recommended to start from the first level without skipping any of them in this way the students will experience the gradual improvement of their math skills evidencing their progress continuously Likewise students are suggested to carry out the following training scheme between 6 and 7 years old up to level 2 between 7 and 8 years up to level 3 between 8 and 9 years old up to level 4 between 9 and 11 years old up to level 5 It is important to clarify that what is suggested above is only referential as it is the minimum required for those ages however students are always encouraged to continually overcome themselves and face increasingly higher levels of difficulty For the success of this training program the essential presence of a guide tutor or parent is recommended during the learning process of the student so that they can be guided in the face of doubts and

encouraged in the face of obstacles that may arise So students are encouraged to start their training as soon as possible and become a successful contestant in Math Olympiads and parents are encouraged to ensure and closely monitor the proper preparation of their children **Math Challenge Problems for Elementary and Middle Schools** Ardis Yang,2014-02-14

No child is not gifted It s a matter of nudging them in the right direction This book is written for elementary and middle school students and parents who are interested in improving math problem solving skills It contains 100 math problems that you can use to supplement school work prepare for math contest or just have fun with your family Answers are provided for each problem Full solutions are not provided because there are usually more than one way to solve a problem and it is much more beneficial not to be limited by one strategy It does not take much work two to four problems a week and you will see a difference in a few months **USA and International Mathematical Olympiads, 2003** Titu Andreescu,Zuming

Feng,2004 The Mathematical Olympiad examinations covering the USA Mathematical Olympiad USAMO and the International Mathematical Olympiad IMO have been published annually since 1976 This is the fourth volume in that series The IMO is a world mathematics competition for high school students that takes place each year in a different country Students from all over the world participate in this competition These Olympiad style exams consist of several challenging essay type problems Although a correct and complete solution to an Olympiad problem often requires deep analysis and careful argument the problems require no more than a solid background in high school mathematics coupled with a dose of mathematical ingenuity There are helpful hints provided for each of the problems These hints often help lead the student to a solution of the problem Complete solutions to each of the problems is also included and many of the problems are presented together with a collection of remarkable solutions developed by the examination committees contestants and experts during or after the contest For each problem with multiple solutions some common crucial results are presented at the beginning of these solutions

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Math Olympiad Problems For Elementary Introduction

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