

Problems

Time allowed: 4 hours.

NO calculators are to be used.

Questions 1 to 8 only require their numerical answers all of which are non-negative integers less than 1000. Questions 9 and 10 require written solutions which may include proofs. The bonus marks for the Investigation in Question 10 may be used to determine prize winners.

1. Two positive integers, a and b , satisfy the equation

$$\frac{2^a + 2^{2a} + 2^{2^a} + 2^{2^a}}{2024} = \frac{2^b}{23^b}$$

Find the value of $a + b$.

[2 marks]

2. The area of a right-angled triangle is 120 and each of its three sides has integer length. Find the length of its hypotenuse.

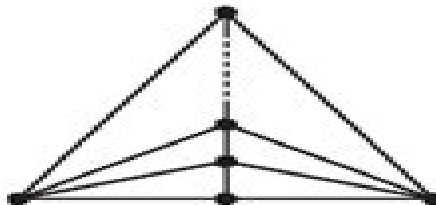
[2 marks]

3. Quadrilateral $ABCD$ has perimeter 60 cm and AB has length 9 cm. Sides AD and BC are parallel with distance 7 cm between them. Points E and F are chosen on sides BC and AD respectively so that the line EF divides $ABCD$ into two quadrilaterals with equal perimeters and equal areas.

What is the area of quadrilateral $ABCD$?

[3 marks]

4. In the following figure, all the central dots are collinear and the bottom three dots are collinear. There are exactly 2024 triangles that have dots as vertices (no three collinear dots form a triangle).



How many dots are there?

[2 marks]

5. Three positive integers a , b , c satisfy

$$a^2 + b - c = 100 \tag{1}$$

$$a + b^2 - c = 124 \tag{2}$$

Find $a + b + c$.

[3 marks]

Mathematics Olympiad Problems And Solutions

Jun Ge



Mathematics Olympiad Problems And Solutions:

Problems And Solutions In Mathematical Olympiad (Secondary 2) Xiong-hui Zhao,2024-07-02 The series is edited by the head coaches of China's IMO National Team Each volume catering to different grades is contributed by the senior coaches of the IMO National Team The Chinese edition has won the award of Top 50 Most Influential Educational Brands in China The series is created in line with the mathematics cognition and intellectual development levels of the students in the corresponding grades All hot mathematics topics of the competition are included in the volumes and are organized into chapters where concepts and methods are gradually introduced to equip the students with necessary knowledge until they can finally reach the competition level In each chapter well designed problems including those collected from real competitions are provided so that the students can apply the skills and strategies they have learned to solve these problems Detailed solutions are provided selectively As a feature of the series we also include some solutions generously offered by the members of Chinese national team and national training team

[The Hard Mathematical Olympiad Problems and Their Solutions](#) Steve Dinh,2011 This book shows the approaches to solving many difficult Mathematical Olympiad and other international problems posted at the www.mathlinks.ro the largest mathematical webpage that has most of the problems used to select the talented students of the world At the time of this book's publication the solutions to many of these problems are not yet available This book is not only as much about methods of solving mathematical problems as it is about various approaches to solving the difficult problems in general It is a first step in examining the creativity that goes into problem solving The real points of the book are the enumeration of problem solving strategies and the tricks applied to solve the problems The approaches in the book build understanding and not just methods in solving problems This book is a must read for many math students and is useful for many teachers around the world

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

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Mathematical Olympiad In China (2019-2020): Problems And Solutions Bin Xiong,2022-09-29 In China lots of excellent maths students take an active part in various maths contests and the best six senior high school students will be selected to form the IMO National Team to compete in the International Mathematical Olympiad In the past ten years China's IMO Team has achieved outstanding results they won the first place almost every year The authors of this book are coaches of the China national team They are Xiong Bin Yao Yijun Qu Zhenhua et al Those who took part in the translation work are Zhao Wei and Zhou Tianyou The materials of this book come from a series of two books in Chinese on Forward to IMO A Collection of Mathematical Olympiad Problems 2019 2020 It is a collection of problems and solutions of the major mathematical competitions in China It provides a glimpse of how the China national team is selected and formed

Mathematical Olympiads 2000-2001 Titu Andreescu,Zuming Feng,George Lee,2003-10-16 Problems and solutions from Mathematical

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Step To Mathematical Olympiad Problems Derek Allan Holton, 2009-07-30 See also *A SECOND STEP TO MATHEMATICAL OLYMPIAD PROBLEMS* The International Mathematical Olympiad IMO is an annual international mathematics competition held for pre collegiate students It is also the oldest of the international science olympiads and competition for places is particularly fierce This book is an amalgamation of the first 8 of 15 booklets originally produced to guide students intending to contend for placement on their country s IMO team The material contained in this book provides an introduction to the main mathematical topics covered in the IMO which are Combinatorics Geometry and Number Theory In addition there is a special emphasis on how to approach unseen questions in Mathematics and model the writing of proofs Full answers are given to all questions Though *A First Step to Mathematical Olympiad Problems* is written from the perspective of a mathematician it is written in a way that makes it easily comprehensible to adolescents This book is also a must read for coaches and instructors of mathematical competitions

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Competition 1985-2000: Problems, Solutions, and Commentary Kiran S. Kedlaya,Bjorn Poonen,Ravi Vakil,2020-01-16

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