



# 奧冠教育中心 OLYMPIAD CHAMPION EDUCATION CENTRE

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## 香港國際數學競賽總決賽 2021 HONG KONG INTERNATIONAL MATHEMATICAL OLYMPIAD FINAL ROUND 2021

### 中學二年級 Secondary 2

時限：120 分鐘

Time allowed: 120 minutes

### 試題

### Question Paper

#### 考生須知：

#### Instructions to Contestants:

1. 本卷包括 試題 乙份，試題紙不可取走。  
Each contestant should have ONE Question-Answer Book which CANNOT be taken away.
2. 本卷共 5 個範疇，每範疇有 6 題，共 30 題，每題 5 分，總分 150 分，答錯不扣分。  
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3. 請將答案寫在 **答題紙** 上。  
All answers should be written on ANSWER SHEET.
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NO calculators can be used during the contest.
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Write down the answer in the simplest form. If the calculation result is a fraction, please write down the answer as a proper or mixed fraction, decimal figure is also accepted. Marks will NOT be given for incorrect unit.

# Hong Kong Mathematics Olympiad Answers

**Snezana Lawrence**



## **Hong Kong Mathematics Olympiad Answers:**

**Mathematical Olympiads 1999-2000** Titu Andreescu, Zuming Feng, 2002-05-16 Challenging problems in maths plus solutions to those featured in the earlier Olympiad book

**Mathematical Olympiad In China (2021-2022): Problems And Solutions**, 2024-03-19 In China many excellent students in mathematics take an active part in various mathematical contests and each year the best six senior high school students are 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 first place almost every year The authors of this book are coaches of the China national team They are Xiong Bin Xiao Liang Yu Hongbing Yao Yijun Qu Zhenhua Li Ting Ai Yinhua Wang Bin Fu Yunhao He Yijie Zhang Sihui Wang Xinmao Lin Tianqi Xu Disheng et al Those who took part in the translation work are Chen Haoran and Zhao Wei The materials of this book come from a series of two books in Chinese on Forward to IMO a collection of mathematical Olympiad problems 2021 2022 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 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 Olympiad In China (2017-2018): Problems And Solutions** Bin Xiong, 2022-08-29 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 Wang Shanping and Chen Haoran The materials of this book come from a series of two books in Chinese on Forward to IMO A Collection of Mathematical Olympiad Problems 2017 2018 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 Olympiad In China (2023): Problems And Solutions* Bin Xiong, 2025-05-27 In China many excellent mathematics students take an active part in various mathematical contests and each year the best six senior high school students are 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 esteemed coaches of the China national team including Xiao Liang Qu Zhenhua Xiong Bin Yu Hongbing Yao Yijun Wang Xinmao Li Ting Ai Yinghua Fu Yunhao Wang Bin He Yijie and Zhang Sihui Contributing to the translation efforts were Chen Haoran and Zhao Wei The materials of this book come from a book in Chinese on Forward to IMO A Collection of Mathematical Olympiad Problems 2023 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 **(Free version) Abacus & Mental**

**Arithmetic Course Book** Mathewmatician, All four arithmetic examples and exercises are provided with detailed and smooth versions of video teaching It is suitable to Children with strong self learning ability Parents who train their children on their own Kindergarten or Primary school teacher Students majoring in early childhood education or elementary education in universities and colleges Those who are interested in becoming an abacus and mental arithmetic teacher or are interested in running an abacus and mental arithmetic class **Hungarian Mathematical Olympiad (1964-1997):**

**Problems And Solutions** Fusheng Leng,Xin Li,Huawei Zhu,2022-10-04 This book is about a famous Hungarian mathematics competition that was founded in 1894 and thus the oldest mathematics competition for secondary school students organized on a national scale This book is based on Volumes III and IV of the Hungarian work by J nos Sur nyi covering the years from 1964 to 1997 Hungary along with Russia has a well deserved reputation for proposing important instructive and interesting problems Here the reader will find a treasure trove of over 100 of them The solutions are written carefully giving all the details and keeping in mind at all times the overall logical structures of the arguments An outstanding feature of this book is Part II Discussion Here the problems are divided by topics into six groups It contains a discussion of the topic in general followed by the basic results that precedes the discussions of the individual problems When a student encounters some difficulty in a problem this part of the book can be consulted without revealing the complete solution As an alternative a student can also start with this part to familiarize with the general topic before attempting any problems Finally almost 400 additional problems from the legendary K MaL Secondary School Mathematics and Physics Journal takes the student to mathematical topics beyond competitions **Mathematics Olympiad Masterpiece Series - High School Level**

Mathewmatician, Suitable for high school students with high mathematics ability and people above high school level High school students with higher mathematics ability should learn more in depth Mathematical Olympiad topics through independent learning methods to further improve their mathematics level which is conducive to studying university subjects in the future **Problems And Solutions In Mathematical Olympiad (Secondary 3)** Jun Ge,2022-06-16 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

Problems And Solutions In Mathematical Olympiad (High School 1) Bin Xiong,Zhi-gang Feng,2022-04-07

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

### **Problems And Solutions In Mathematical Olympiad (High School 2)**

Shi-xiong Liu,2022-04-08 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

Metric Space Topology: Examples, Exercises And Solutions Wing-sum Cheung,2023-10-18

This introductory book contains a rich collection of exercises and worked examples in Metric Spaces Other than questions in the traditional setting plenty of True or False type questions and open ended questions are included With detailed solutions these are highly effective in helping students gain a bird s eye view and master the subject and pitfalls better The presentation is clear in nurturing the mathematical insights and mathematical maturity of the readers In this book the pictorialization or visualization of abstract situations into

simple pictures is very often crucially conducive to the understanding of the materials This serves to give an insightful view of the intricate problems as well as a clue or a direction to formulate rigorous arguments The learning outcomes include

**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

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Mathematical Olympiad Challenges Titu Andreescu,Razvan Gelca,2001-01-10 Mathematical Olympiad Challenges is a rich collection of problems put together by two experienced and well known professors and coaches of the U S International Mathematical Olympiad Team Hundreds of beautiful challenging and instructive problems from algebra geometry trigonometry combinatorics and number theory were selected from numerous mathematical competitions and journals An important feature of the work is the comprehensive background material provided with each grouping of problems The problems are clustered by topic into self contained sections with solutions provided separately All sections start with an essay discussing basic facts and one or two representative examples A list of carefully chosen problems follows and the reader is invited to take them on Additionally historical insights and asides are presented to stimulate further inquiry The emphasis throughout is on encouraging readers to move away from routine exercises and memorized algorithms toward

creative solutions to open ended problems Aimed at motivated high school and beginning college students and instructors this work can be used as a text for advanced problem solving courses for self study or as a resource for teachers and students training for mathematical competitions and for teacher professional development seminars and workshops

**Problems And Solutions In Mathematical Olympiad (High School 3)** Hong-bing Yu,2022-03-16 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

Primary Mathematics Book's Challenging Problems (Senior Form) Mathewmatician, Providing challenging mathematics problems and their solutions for elementary level and it is not required to use the knowledge of Mathematics Olympiad

**Scientific and Technical Aerospace Reports** ,1995-08 A

*Little History of Mathematics* Snezana Lawrence,2025-05-13 A lively accessible history of mathematics throughout the ages and across the globe Mathematics is fundamental to our daily lives Science computing economics all aspects of modern life rely on some kind of maths But how did our ancestors think about numbers How did they use mathematics to explain and understand the world around them Where do numbers even come from In this Little History Snezana Lawrence traces the fascinating history of mathematics from the Egyptians and Babylonians to Renaissance masters and enigma codebreakers Like literature music or philosophy mathematics has a rich history of breakthroughs creativity and experimentation And its story is a global one We see Chinese Mathematical Art from 200 BCE the invention of algebra in Baghdad's House of Wisdom and sangaku geometrical theorems at Japanese shrines Lawrence goes beyond the familiar names of Newton and Pascal exploring the prominent role women have played in the history of maths including Emmy Noether and Maryam Mirzakhani

The Globalisation of Chinese Food Sidney Cheung,David Y. H. Wu,2014-04-08 By considering the practice of globalisation these essays describe changes variations and innovations to Chinese food in many parts of the world The book reviews and broadens classic theories about ethnic and social identity formation through the examination of Chinese food providing a powerful testimony to the impact of late 20th century globalisation

## Embracing the Melody of Expression: An Emotional Symphony within **Hong Kong Mathematics Olympiad Answers**

In some sort of used by screens and the ceaseless chatter of instantaneous conversation, the melodic beauty and mental symphony created by the written word frequently fade into the backdrop, eclipsed by the constant sound and disturbances that permeate our lives. However, located within the pages of **Hong Kong Mathematics Olympiad Answers** a marvelous literary treasure brimming with raw emotions, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, this fascinating masterpiece conducts viewers on a mental journey, skillfully unraveling the concealed melodies and profound influence resonating within each carefully constructed phrase. Within the depths of this emotional review, we can discover the book's main harmonies, analyze their enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers' souls.

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