

Singapore Mathematical Olympiad Selection Test

Friday, 2 December 1988

0930 – 1230

Question Sheet

Instructions. This test consists of FORTY questions. Attempt as many questions as you can. Circle only ONE answer to each question on the Answer Sheet provided. Any question with more than one answer circled will be disallowed. There is no penalty for a wrong answer.

Each question carries an equal number of marks.

No working need to be shown on the Answer Sheet.

No calculators of any sort are allowed.

1. Let n be the number of ordered pairs (x, y) of positive integers satisfying the equation

$$3x + 2y = 881.$$

Then, we have

- | | |
|---------------------------|---------------------------|
| (a) $n \leq 100$ | (b) $101 \leq n \leq 115$ |
| (c) $116 \leq n \leq 130$ | (d) $131 \leq n \leq 145$ |
| (e) $n \geq 146$ | |

2. Given that the following 7-digit positive integer

m	2	4	n	6	2	7
-----	---	---	-----	---	---	---

is a multiple of 99, then the value of $|m - n|$ is

- | | | | | |
|-----------|-----------|-----------|-----------|-----------|
| (a) < 2 | (b) $= 2$ | (c) $= 3$ | (d) $= 4$ | (e) > 4 |
|-----------|-----------|-----------|-----------|-----------|

3. Two given positive real numbers x, y are such that $x > y$, $xy = 250$ and

$$(\log x - \log 5)(\log y - \log 5) = -\frac{15}{4}.$$

Then, the number of digits in the integer part of x is

- | | | | | |
|-----------|-------|-------|-------|-----------|
| (a) < 2 | (b) 2 | (c) 3 | (d) 4 | (e) > 4 |
|-----------|-------|-------|-------|-----------|

Singapore Mathematical Olympiad Selection Test

Hideo Mohri



Singapore Mathematical Olympiad Selection Test:

Lecture Notes On Mathematical Olympiad Courses: For Senior Section - Volume 2 Jiagu Xu, 2012-03-21 Olympiad mathematics is not a collection of techniques of solving mathematical problems but a system for advancing mathematical education This book is based on the lecture notes of the mathematical Olympiad training courses conducted by the author in Singapore Its scope and depth not only covers and beyond the usual syllabus but introduces a variety of concepts and methods in modern mathematics as well In each lecture the concepts theories and methods are taken as the core The examples serve to explain and enrich their intentions and to indicate their applications Besides appropriate number of test questions is available for the readers practice and testing purpose Their detailed solutions are also conveniently provided The examples are not very complicated so readers can easily understand There are many real competition questions included which students can use to verify their abilities These test questions originate from many countries all over the world This book will serve as a useful textbook of mathematical Olympiad courses a self study lecture notes for students or as a reference book for related teachers and researchers

Selected Problems Of The Vietnamese Mathematical Olympiad (1962-2009) Hai Chau Le, Hai Khoi Le, 2010-09-23 Vietnam has actively organized the National Competition in Mathematics and since 1962 the Vietnamese Mathematical Olympiad VMO On the global stage Vietnam has also competed in the International Mathematical Olympiad IMO since 1974 and constantly emerged as one of the top ten To inspire and further challenge readers we have gathered in this book problems of various degrees of difficulty of the VMO from 1962 to 2009 The book is highly useful for high school students and teachers coaches and instructors preparing for mathematical olympiads as well as non experts simply interested in having the edge over their opponents in mathematical competitions

Tests And Exams In Singapore Schools: What School Leaders, Teachers And Parents Need To Know Kay Cheng Soh, 2017-09-22 Assessment mainly in the form of tests and examinations plays a critical role in the schooling of Singaporean students The results are often used to make irrevocable decisions on the students future education careers This book is written with school leaders teachers and parents in mind with the view of helping them to better understand the processes and products of assessment via tests and exams It is written in simple terms using minimal technical terms and introduces school leaders teachers and parents to essential concepts and principles of educational measurements which are relevant in the school context in Singapore While existing books on educational measurement are academically oriented and meant for formal training courses this book makes self study simple by using practical examples couched in layman s language In addition this book uses concrete examples and analogies to make the text reader friendly

Lecture Notes On Mathematical Olympiad Courses: For Senior Section - Volume 1 Jiagu Xu, 2012-03-21 Olympiad mathematics is not a collection of techniques of solving mathematical problems but a system for advancing mathematical education This book is based on the lecture notes of the mathematical Olympiad training courses conducted by the author in Singapore Its scope and depth not

only covers and beyond the usual syllabus but introduces a variety of concepts and methods in modern mathematics as well. In each lecture the concepts, theories and methods are taken as the core. The examples serve to explain and enrich their intentions and to indicate their applications. Besides appropriate number of test questions is available for the readers practice and testing purpose. Their detailed solutions are also conveniently provided. The examples are not very complicated so readers can easily understand. There are many real competition questions included which students can use to verify their abilities. These test questions originate from many countries all over the world. This book will serve as a useful textbook of mathematical Olympiad courses, a self study lecture notes for students or as a reference book for related teachers and researchers.

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.

Singapore Bulletin, 1987 *Proceedings Of The 14th International Congress On Mathematical Education (In 2 Volumes)* Jianpan Wang, 2024-06-07 The International Congress on Mathematical Education ICME is the largest international conference on mathematics education in the world. This quadrennial event is organized under the auspices of the International Commission on Mathematical Instruction ICMI. This book the Proceedings of ICME 14 presents the latest trends in mathematics education research and mathematics teaching practices at all levels. Each chapter covers an extensive range of topics in mathematics education. Volume I consists of 4 Plenary Lectures, 3 Plenary Panels, 5 Lectures of Awardees, 4 Survey Teams, 62 Topic Study Groups, 13 Discussion Groups, 20 Workshops, a Thematic Afternoon and an Early Career Researcher Day. Plenary Lectures recognize substantial and continuing contributions to the growth of the field of Mathematics Education. Plenary Panels address three major challenges currently facing mathematics educators across the globe. The Survey Teams have a particular emphasis on identifying and characterizing important new knowledge, recent developments, new perspectives and emergent issues. The Topic Study Groups provides a coverage of important topics in mathematics education. Volume II consists of 50 invited lectures which present the work and reflections of both established and emerging researchers from around the world. These lectures cover a wide spectrum of topics, themes and issues that reflect the latest challenges and development in the field of mathematics education.

Mathematics Education Khoon Yoong Wong, 2009 This title provides much food for thought and pointers to meet future challenges in mathematics education not only within

Singapore but also in other countries *Infancy to IC* Theophilus Huang,2025-08-04 Congratulations to us we are now parents Just like many others before us we scour the Internet and bookshops hoping to find a guide that can tell us how to be good parents Well at the very least we should avoid messing up our parental duties There is a problem we are based in Singapore While this is a great place to live and work it s quite a different story for the kids Singapore has been consistently ranked among the top countries in the world by the OECD s Program for International Student Assessment PISA for some time If parenting is difficult enough as it is imagine doing it in a country with the smartest kids in the world which is what PISA is telling us This book describes our journey as parents in Singapore from infancy to pre school to the Gifted Education Program to Raffles Institution to getting offers from top universities Imperial College University College NUS College Nanyang Technological University Waseda University among others It is my hope that this journey will provide a guideline to other parents so that they can do the same or better **Integer Sequences** Masum Billal,Samin Riasat,2021-06-18 This book discusses special properties of integer sequences from a unique point of view It generalizes common well known properties and connects them with sequences such as divisible sequences Lucas sequences Lehmer sequences periods of sequences lifting properties and so on The book presents theories derived by using elementary means and includes results not usually found in common number theory books Considering the impact and usefulness of these theorems the book also aims at being valuable for Olympiad level problem solving as well as regular research This book will be of interest to students researchers and faculty members alike My Vision on Education (Works by Zhu Yongxin on Education Series) Zhu Yongxin,2014-05-26 One of China s leading education experts explores the best ways to create ideal schools teachers administrators and education Professor Zhu Yongxin expounds on what he believes to be ideal education Zhu draws a blueprint for a quality education system in contemporary China and covers issues of forward looking significance such as trends of China s basic education reform characteristics of Chinese curricula reform and challenges and prospects of moral education Zhu Yongxin is a member of National People s Congress NPC Standing Committee vice chairman of Association for Promoting Democracy CAPD and vice president of Chinese Society of Education CSE He also works as a professor and PhD supervisor in Suzhou University *Resources in Education* ,1997 **EducNews** ,2012 **Competition Science Vision** ,1999-10 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for aspiring candidates The magazine covers General Knowledge Science and Technology news Interviews of toppers of examinations study material of Physics Chemistry Zoology and Botany with model papers reasoning test questions facts quiz contest general awareness and mental ability test in every monthly issue **Monthly Catalogue, United States Public Documents** ,1983 **Resources in Education** ,1996 **Catalogue of Publications Issued by**

the Government of the United States United States. Superintendent of Documents, 1983-10 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index

Imperial Biologists Hideo Mohri, 2019-03-26 This book sheds light on a little known aspect of the Imperial family of Japan For three generations members of the family have devoted themselves to biological research Emperor Showa Hirohito was an expert on hydrozoans and slime molds His son Emperor Akihito is an ichthyologist specializing in gobioid fishes and his research is highly respected in the field Prince Akishino Emperor Akihito's son is known for his research on giant catfish and the domestication of fowl while Prince Hitachi Emperor Akihito's brother has conducted research on cancer in animals The book shows how they became interested in biology how seriously they were committed to their research what their main scientific contributions are and how their achievements are valued by experts at home and abroad To commemorate the 60 year reign of Emperor Showa and his longtime devotion to biology the International Prize for Biology was founded in 1985 The prize seeks to recognize and encourage researches in basic biology A list of winners and a summary of their research are presented in the last part of the book The author an eminent biologist who has given lectures to the Imperial Family explains their research and tells the fascinating story of biology and the Imperial Family of Japan The book is a valuable resource not only for biology students and researchers but also for historians and anyone interested in science and the Royal and Imperial families

Challenge your Brain 1 Loh Cheng Yee, 2011-01-01 Challenge Your Brain Volume 1 is specially written for primary 3 pupils preparing the GEP Selection Test It is also a useful and strategic tool for primary 3 and 4 pupils to build a sound foundation for future Math Olympiad competitions The series is conceptualised by Loh Cheng Yee an experienced GEP educator and trainer for various Olympiad competitions As an educator and consultant her vast experience includes teaching Elementary Mathematics Additional Mathematics and Mathematics Olympiad in Catholic High School and The Chinese High School now the Hwa Chong Institution for 18 years She was also a member of the Question Committee of the Singapore Asia Pacific Mathematical Olympiad for Primary Schools formerly known as the Singapore Mathematical Olympiad for Primary Schools SMOPS

Modern Mathematics Dirk De Bock, 2023-03-08 The international New Math developments between about 1950 through 1980 are regarded by many mathematics educators and education historians as the most historically important development in curricula of the twentieth century It attracted the attention of local and international politicians of teachers and of parents and influenced the teaching and learning of mathematics at all levels kindergarten to college graduate in many nations After garnering much initial support it began to attract criticism But as Bill Jacob and the late Jerry Becker show in Chapter 17 some of the effects became entrenched This volume edited by Professor Dirk De Bock of Belgium provides an outstanding overview of the New Math modern mathematics movement Chapter authors provide exceptionally high quality analyses of the rise of the movement and of subsequent developments within a range of nations The first few

chapters show how the initial leadership came from mathematicians in European nations and in the United States of America. The background leaders in Europe were Caleb Gattegno and members of a mysterious group of mainly French pure mathematicians who since the 1930s had published under the name of a fictitious Nicolas Bourbaki. In the United States there emerged during the 1950s various attempts to improve U S mathematics curricula and teaching especially in secondary schools and colleges. This side of the story climaxed in 1957 when the Soviet Union succeeded in launching Sputnik the first satellite. Undoubtedly this is a landmark publication in education. The foreword was written by Professor Bob Moon one of a few other scholars to have written on the New Math from an international perspective. The final epilogue chapter by Professor Geert Vanpaemel a historian draws together the overall thrust of the volume and makes links with the general history of curriculum development especially in science education including recent globalization trends.

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