

2017 AUCKLAND MATHEMATICAL OLYMPIAD

Questions, Solutions, and Grading suggestions

Junior Division

1. A 6 meter ladder rests against a vertical wall. The midpoint of the ladder is twice as far from the ground as it is from the wall.
At what height on the wall does the ladder reach? Simplify this as much as possible, and explain your reasoning.

Soln.

Let x be the distance from the midpoint of the ladder to the wall.

Using congruent triangles and Pythagoras, $6^2 = (2x)^2 + (4x)^2$. [1 mk]

whence $x = \frac{3}{\sqrt{5}}$ (1.34m) [1 mk]

So the desired height is $\frac{12}{\sqrt{5}}$ (5.37m) [1 mk]

2. Two players take turns to write natural numbers on a board. The rules forbid writing numbers greater than p and also divisors of previously written numbers. The player who has no move loses.
Determine which player has a winning strategy for $p = 10$ and describe this strategy.

Soln.

The first person wins [1 mk]

by playing 6. [1 mk]

After that the only plays are 4, 5, 7, 8, 9, 10.

We group these numbers in pairs (4,5), (7,9) and (8,10). [1 mk]

It is clear that these give a reply to the subsequent plays of the second player.

3. Three equal circles of radius r each pass through the centres of the other two.
What is the area of intersection that is common to all the three circles?
Explain your reasoning.

Soln.

Let the centres of the circles be O_1, O_2, O_3 .

Let A be the area of the triangle $\triangle O_1 O_2 O_3$ and let S be the area of the sector of the circle with centre O_1 and bound by the points O_2 and O_3 . [1 mk]

The desired area is $A + 3(S - A)$ [1 mk]

$$= 3S - 2A$$

$$= 3 \times \frac{1}{6} \pi r^2 - 2 \times \frac{1}{4} \sqrt{3} r^2$$

$$= \frac{1}{2} r^2 (\pi - \sqrt{3}) \quad [1 \text{ mk}]$$

Auckland Mathematical Olympiad Sample Paper

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Mathematical Olympiads (APSMO) Inc.**

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International Maths Olympiad - Class 1 (With OMR Sheets) SINGH SHRADDHA, 2016-04-20 Developed by Professionals and Experienced Teachers from top schools across the country the book has been divided into four sections namely Mathematical Reasoning Logical Reasoning Achievers section and Model Papers Mathematical concepts have been cleared through Solved Examples Illustrations and Diagrams To enhance the problem solving skills of candidates Multiple Choice Questions MCQs with detailed solutions have been provided in each chapter Two Mock Test Papers have been included for practice purpose A CD containing Study Chart for systematic preparation Tips Tricks to crack Maths Olympiad Pattern of Exam and links of Previous Years Papers is accompanied with this book The book is recommended for various school level and competitive exams v publishers

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Maths Olympiad Contest

Problems Australasian Problem Solving Mathematical Olympiads (APSMO) Inc.,2018-04 Past papers from the Australian and USA Maths Olympiads from 2014 to 2017 MATHEMATICS OLYMPIOD FOR IMO ASPIRANTS JAYA GHOSH,2015-09-01

This book has been designed to fulfil the preparation needs of candidates who aspire to crack International Mathematics Olympiad National Talent Search Exam and other competitive exams The book is strictly based on the latest curriculum from International Mathematics Olympiad It has been prepared in accordance with the latest syllabus issued from CBSE ICSE and other school boards across the country The book consists of three sections namely Logical Reasoning Mathematical Reasoning and Everyday Mathematics The Concepts Formulae and important Tips are given in the beginning of each chapter Fully solved Multiple Choice Questions MCQs with detailed explanations enhance the problem solving skills of students Model Papers are included in the book for thorough practice and Previous Years IMO papers given in the CDs help candidates to understand the level of difficulty and grasp the structure of questions asked in the exam Salient Features i Concepts are introduced gradually i Simple lucid and systematic presentationi Detailed solutions at the end of each chapteri Previous years Question Papers and Model Test PapersHighly RecommendedThe book is highly recommended for the candidates who aspire to get distinction in Mathematics and Science Olympiads at national and international level It will prove very useful for various other competitive examinations such as i NTSE NSTSE SLTSEi SSC DSC B Ed TET CTET etc

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Xu,2009-12-11 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 exceeds the usual syllabus but introduces a variety concepts and methods in modern mathematics In each lecture the concepts theories and methods are taken as the core The examples are served to explain and enrich their intension and to indicate their applications Besides appropriate

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Oswaal One For All Olympiad Previous Years' Solved Papers, Class-1 Mathematics Book (Useful book for all Olympiads) (For 2023 Exam) Oswaal Editorial Board, 2022-06-14. Description of the product: Crisp Revision with Concept wise Revision Notes, Mind Maps, 100% Exam Readiness with Previous Years Questions 2011-2022 from all leading Olympiads like IMO, NSO, ISO, Hindustan Olympiad, Valuable Exam Insights with 3 Levels of Questions, Level 1, 2 Achievers, Concept Clarity with 500 Concepts, 50 Concepts Videos, Extensive Practice with Level 1, Level 2 Practice Papers.

Math Olympiad International Competition Preparation Terry Chew, 2021. Taking part in Maths Olympiad for the first time? Know what to expect with the official SEAMO Past Competition Papers. These books reproduce the 2016-2020 papers for Paper A as well as 2019-2021 papers for SEAMO X so students can familiarise themselves with the SEAMO format. Worked solutions by the Terry Chew Institute of Mathematical Olympiads (TCIMO) are provided for every question.

The Mathematical Olympiad Handbook Anthony Gardiner, 1997. Mathematical Olympiad competitions

started in Hungary at the end of the nineteenth century and are now held internationally They bring together able secondary school pupils who attempt to solve problems which develop their mathematical skills Olympiad problems are unpredictable and have no obvious starting point and although they require only the skills learnt in ordinary school problems they can seem much harder The Mathematical Olympiad Handbook introduces readers to these challenging problems and aims to convince them that Olympiads are not just for a select minority The book contains problems from the first 32 British Mathematical Olympiad BMO papers 1965 96 and gives hints and outline solutions to each problem from 1975 onwards An overview is given of the basic mathematical skills needed and a list of books for further reading is provided Working through the exercises provides a valuable source of extension and enrichment for all pupils and adults interested in mathematics

Thirty Sixth International Mathematical Olympiad International Mathematical Olympiad, 1996

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