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British Math Olympiad | 2009 Round 2 Question 1
Math is the hidden secret to understanding the world | Roger Antonsen
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What does it feel like to invent math? A quick geometry problem. ~~Training for Putnam Competition~~
Philosophy of Numbers - Numberphile
Math Training Center - 2019 Stanford Math Tournament - Number Theory (Remainder)

A number theory problem from Morocco!

Greek Mathematics Olympiad | 2008 Q2
AMC 8 Preparation - Math Competition Class 4 - Primes, Factorization, Number of Factors, Divisibility
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Math Olympiad Problems based on Number Theory
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Number Theory For Mathematical Contests

Number Theory is one of the oldest and most beautiful branches of Mathematics. It abounds in problems that yet simple to state, are very hard to solve. Some number-theoretic problems that are yet unsolved are: 1. (Goldbach's Conjecture) Is every even integer greater than 2 the sum of distinct primes? 2.

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Number Theory for Mathematical Contests
Number Theory for Mathematical Contests David A.
SANTOS dsantos@ccp.edu October 31, 2007
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These are all questions in number theory, the branch of mathematics that's primarily concerned with our counting numbers, 1, 2, 3, etc. Of particular importance are the prime numbers, the 'building blocks' of our number system.

Number Theory: Queen of Mathematics

Number theory (or arithmetic or higher arithmetic in older usage) is a branch of pure mathematics devoted primarily to the study of the integers and integer-valued functions. German mathematician Carl Friedrich Gauss (1777–1855) said, "Mathematics is the queen of the sciences—and number theory is the queen of mathematics."

Number theory - Wikipedia

The Journal of Number Theory (JNT) features selected research articles that represent the broad spectrum of interest in contemporary number theory and allied areas. A valuable resource for mathematicians, the journal provides an international forum for the publication of original research in this field...

Journal of Number Theory - Elsevier

The Millennium Prize problem, then, is to show a general mathematical theory behind the physical Yang-Mills theory, and to have a good mathematical explanation for the mass gap.

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Introduction to Analytic Number Theory. Math 531
Lecture Notes (2015) LaTeX Tips. Links.

AJ Hildebrand
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volume 29 MATHEMATICS COMPETITIONS

Middle School Math Contests: Number Theory and Geometry. Middle-school math contests such as MATHCOUNTS are a launching pad for many of the best math students. In this course designed for rising 6th through 8th graders, we draw problems from several middle-school contests, including MATHCOUNTS and the American Mathematics Competitions 8 (AMC 8), as well as beginning high-school contests like the American Mathematics Competitions 10 (AMC 10).

Middle School Math Contests: Number Theory and Geometry ...

A favourite result is the representation of arithmetic progressions in the form of “ polygonal numbers .”. For instance, if the numbers 1, 2, 3, 4,...are added successively, the “triangular” numbers 1, 3, 6, 10,...are obtained; similarly, the odd numbers 1, 3, 5, 7,...sum to the “square” numbers 1, 4, 9, 16,..., while the sequence 1, 4, 7, 10,..., with a constant difference of 3, sums to the “pentagonal” numbers 1, 5, 12, 22,....

Mathematics - Number theory | Britannica

Middle School Math Contests: Number Theory and Geometry. Middle-school math contests such as MATHCOUNTS are a launching pad for many of the

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best math students. In this course designed for rising 6th through 8th graders, we draw problems from several middle-school contests, including MATHCOUNTS and the American Mathematics Competitions 8 (AMC 8), as well as beginning high-school contests like the American Mathematics Competitions 10 (AMC 10).

Number theory is an important research field of mathematics. In mathematical competitions, problems of elementary number theory occur frequently. These problems use little knowledge and have many variations. They are flexible and diverse. In this book, the author introduces some basic concepts and methods in elementary number theory via problems in mathematical competitions. Readers are encouraged to try to solve the problems by themselves before they read the given solutions of examples. Only in this way can they truly appreciate the tricks of problem-solving.

This challenging problem book by renowned US Olympiad coaches, mathematics teachers, and researchers develops a multitude of problem-solving skills needed to excel in mathematical contests and in mathematical research in number theory. Offering inspiration and intellectual delight, the problems throughout the book encourage students to express their ideas in writing to explain how they conceive problems, what conjectures they make, and what conclusions they reach. Applying specific techniques and strategies, readers will acquire a solid

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understanding of the fundamental concepts and ideas of number theory.

The book provides a self-contained introduction to classical Number Theory. All the proofs of the individual theorems and the solutions of the exercises are being presented step by step. Some historical remarks are also presented. The book will be directed to advanced undergraduate, beginning graduate students as well as to students who prepare for mathematical competitions (ex. Mathematical Olympiads and Putnam Mathematical competition).

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This problem book gathers together 15 problem sets on analytic number theory that can be profitably approached by anyone from advanced high school students to those pursuing graduate studies. It emerged from a 5-week course taught by the first author as part of the 2019 Ross/Asia Mathematics Program held from July 7 to August 9 in Zhenjiang,

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China. While it is recommended that the reader has a solid background in mathematical problem solving (as from training for mathematical contests), no possession of advanced subject-matter knowledge is assumed. Most of the solutions require nothing more than elementary number theory and a good grasp of calculus. Problems touch at key topics like the value-distribution of arithmetic functions, the distribution of prime numbers, the distribution of squares and nonsquares modulo a prime number, Dirichlet's theorem on primes in arithmetic progressions, and more. This book is suitable for any student with a special interest in developing problem-solving skills in analytic number theory. It will be an invaluable aid to lecturers and students as a supplementary text for introductory Analytic Number Theory courses at both the undergraduate and graduate level.

This introductory textbook takes a problem-solving approach to number theory, situating each concept within the framework of an example or a problem for solving. Starting with the essentials, the text covers divisibility, unique factorization, modular arithmetic and the Chinese Remainder Theorem, Diophantine equations, binomial coefficients, Fermat and Mersenne primes and other special numbers, and special sequences. Included are sections on mathematical induction and the pigeonhole principle, as well as a discussion of other number systems. By emphasizing examples and applications the authors motivate and engage readers.

The importance of mathematics competitions has been widely recognised for three reasons: they help

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to develop imaginative capacity and thinking skills whose value far transcends mathematics; they constitute the most effective way of discovering and nurturing mathematical talent; and they provide a means to combat the prevalent false image of mathematics held by high school students, as either a fearsomely difficult or a dull and uncreative subject. This book provides a comprehensive training resource for competitions from local and provincial to national Olympiad level, containing hundreds of diagrams, and graced by many light-hearted cartoons. It features a large collection of what mathematicians call "beautiful" problems - non-routine, provocative, fascinating, and challenging problems, often with elegant solutions. It features careful, systematic exposition of a selection of the most important topics encountered in mathematics competitions, assuming little prior knowledge. Geometry, trigonometry, mathematical induction, inequalities, Diophantine equations, number theory, sequences and series, the binomial theorem, and combinatorics - are all developed in a gentle but lively manner, liberally illustrated with examples, and consistently motivated by attractive "appetiser" problems, whose solution appears after the relevant theory has been expounded. Each chapter is presented as a "toolchest" of instruments designed for cracking the problems collected at the end of the chapter. Other topics, such as algebra, co-ordinate geometry, functional equations and probability, are introduced and elucidated in the posing and solving of the large collection of miscellaneous problems in the final toolchest. An unusual feature of this book is the attention paid throughout to the history of

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mathematics - the origins of the ideas, the terminology and some of the problems, and the celebration of mathematics as a multicultural, cooperative human achievement. As a bonus the aspiring "mathlete" may encounter, in the most enjoyable way possible, many of the topics that form the core of the standard school curriculum.

In China, lots of excellent students who are good at maths takes 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 have won the first place almost every year. The author is one of the coaches of China's IMO National Team, whose students have won many gold medals many times in IMO. This book is part of the Mathematical Olympiad Series which discusses several aspects related to maths contests, such as algebra, number theory, combinatorics, graph theory and geometry. The book elaborates on methods of discrete extremization, such as inequality control, repeated extremum, partial adjustment, exploiting symmetry, polishing transform, space estimates, etc.

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China's IMO National Team, whose students have won many gold medals many times in IMO. This book is part of the Mathematical Olympiad Series which discusses several aspects related to maths contests, such as algebra, number theory, combinatorics, graph theory and geometry. This book will, in an interesting problem-solving way, explain what probability theory is: its concepts, methods and meanings; particularly, two important concepts — probability and mathematical expectation (briefly expectation) — are emphasized. It consists of 65 problems, appended by 107 exercises and their answers.

A collection of problems put together by coaches of the U.S. International Mathematical Olympiad Team.

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