

Problems For Mathematicians Young And Old

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Lion Hunting & Other Mathematical Pursuits: A Collection of Mathematics, Verse and Stories
Icons of Mathematics: An Exploration of Twenty Key Images
Lectures and Problems: A Gift to Young Mathematicians
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The Quarterly Journal of Pure and Applied Mathematics
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Mathematical Association. Committee on the Teaching of Mathematics in Public and Secondary Schools
Alexander Grant Michael John Bradley Paul Carus
British Association for the Advancement of Science. Meeting James Joseph Sylvester

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a collection of math problems for people of varying skills from high school through professional level organized into fourteen categories such as matrices space probability and puzzles and including hints and solutions

this is the story of american mathematics during the past century it contains articles and excerpts from a century of the american mathematical monthly giving the reader an opportunity to skim all one hundred volumes of this popular mathematics magazine without actually opening them it samples mathematics year by year and decade by decade the reader can glimpse the mathematical community at the turn of the century the controversy about einstein and relativity the debates about formalism in logic the immigration of mathematicians from europe and the frantic effort to organize as the war began more recent articles deal with the advent of computers and the changes they brought and with some of the triumphs of modern research

in the famous paper of 1938 a contribution to the mathematical theory of big game hunting written by ralph boas along with frank smithies using the pseudonym h pétard boas describes sixteen methods for hunting a lion this marvelous collection of boas memorabilia contains not only the original article but also several additional articles as late as 1985 giving many further methods but once you are through with lion hunting you can hunt through the remainder of the book to find numerous gems by and about this remarkable mathematician not only will you find his biography of bourbaki along with a description of his feud with the french mathematician but also you will find a lucid discussion of the mean value theorem there are anecdotes boas told about many famous mathematicians along with a large collection of his mathematical verses you will find mathematical articles like a proof of the fundamental theorem of algebra and pedagogical articles giving boas views on making mathematics intelligible

the authors present twenty icons of mathematics that is geometrical shapes such as the right triangle the venn diagram and the yang and yin symbol and explore mathematical results associated with them as with their previous books charming proofs when less is more math made visual proofs are visual whenever possible the results require no more than high school mathematics to appreciate and many of them will be new even to experienced readers besides theorems and proofs the book contains many illustrations and it gives connections of the icons to the world outside of mathematics there are also problems at the end of each chapter with solutions provided in an appendix the book could be used by students in courses in problem solving mathematical reasoning or mathematics for the liberal arts it could also be read with pleasure by professional mathematicians as it was by the members of the dolciani editorial board who unanimously recommend its publication

vladimir arnold 1937 2010 was one of the great mathematical minds of the late 20th century he did significant work in many

areas of the field on another level he was keeping with a strong tradition in russian mathematics to write for and to directly teach younger students interested in mathematics this book contains some examples of arnold s contributions to the genre continued fractions takes a common enrichment topic in high school math and pulls it in directions that only a master of mathematics could envision euler groups treats a similar enrichment topic but it is rarely treated with the depth and imagination lavished on it in arnold s text he sets it in a mathematical context bringing to bear numerous tools of the trade and expanding the topic way beyond its usual treatment in complex numbers the context is physics yet arnold artfully extracts the mathematical aspects of the discussion in a way that students can understand long before they master the field of quantum mechanics problems for children 5 to 15 years old must be read as a collection of the author s favorite intellectual morsels many are not original but all are worth thinking about and each requires the solver to think out of his or her box dmitry fuchs a long term friend and collaborator of arnold provided solutions to some of the problems readers are of course invited to select their own favorites and construct their own favorite solutions in reading these essays one has the sensation of walking along a path that is found to ascend a mountain peak and then being shown a vista whose existence one could never suspect from the ground arnold s style of exposition is unforgiving the reader even a professional mathematician will find paragraphs that require hours of thought to unscramble and he or she must have patience with the ellipses of thought and the leaps of reason these are all part of arnold s intent in the interest of fostering a greater awareness and appreciation of mathematics and its connections to other disciplines and everyday life msri and the ams are publishing books in the mathematical circles library series as a service to young people their parents and teachers and the mathematics profession

an accessible compendium of essays on the broad theme of mathematics and sports

henry o pollak chairman of the international program committee bell laboratories murray hill new jersey usa the fourth international congress on mathematics education was held in berkeley california usa august 10 16 1980 previous congresses were held in lyons in 1969 exeter in 1972 and karlsruhe in 1976 attendance at berkeley was about 1800 full and 500 associate members from about 90 countries at least half of these come from outside of north america about 450 persons participated in the program either as speakers or as presidors approximately 40 percent of these came from the u s or canada there were four plenary addresses they were delivered by hans freudenthal on major problems of mathematics education hermina sinclair on the relationship between the learning of language and of mathematics seymour papert on the computer as carrier of mathematical culture and hua loo keng on popularising and applying mathematical methods george polya was the honorary president of the congress illness prevented his planned attendance but he sent a brief presentation entitled mathematics improves the mind

there was a full program of speakers panelists debates miniconferences and meetings of working and study groups in addition 18 major projects from around the world were invited to make presentations and various groups representing special areas of concern had the opportunity to meet and to plan their future activities

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