

2015 Amc 10 B Answers

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Concentrate Questions and Answers Human Rights and Civil Liberties - Principal Lecturer in Law Steve Foster 2016-08-04

Concentrate Q&A Human Rights and Civil Liberties offers unrivalled exam and coursework support for when you're aiming high. The new Concentrate Q&A series is the result of a collaboration involving hundreds of law students and lecturers from universities across the UK. The result is a series that offers you better support and a greater chance to succeed on your law course than any of its rivals. This essential study guide contains a variety of model answers to give you the confidence to tackle any essay or problem question, and the skills you need to excel. DTKnowing the right answer is a start, knowing how to structure it gets you the highest marks annotated answers guide you step by step through the structure of a great answer, and show you how to ensure you focus on the heart of the question DTRecognize and recall user-friendly layout ensures that it is easy to find key information, and diagram answer plans help you visualize how to plan and structure your answers DTAim high avoid common mistakes, use the further reading suggestions to help you take things further and demonstrate your understanding of key academic debates to really impress DTDon't just rely on the exam to pick up your marks a unique coursework skills chapter offers advice on researching, referencing and critical analysis - not available in any other Q&A series This study guide is also accompanied by a wealth of online extras at www.oxfordtextbooks.co.uk/orc/qanda/ which include: DTAdditional essay and problem questions for you to practise your technique. Questions are annotated, highlighting key terms and legal issues to help you plan your own answers. An indication of what your answers should cover is also provided. DTVideo guidance on how to put an answer plan together DTOnline versions of all the diagram answer plans from the book DTA glossary of key terms DTPodcasts from expert examiners on revision and exam technique, coursework technique, and advice on how to tackle other assessment methods such as MCQs and presentations

KVS TGT (Trained Graduate Teacher) Recruitment Exam 2022 | 1900+ Solved Questions (10 Mock Tests + 3 Previous Year Papers) - EduGorilla Prep Experts 2022-08-03

- Best Selling Book in English Edition for KVS TGT (Trained Graduate Teacher) Recruitment Exam with objective-type questions as per the latest syllabus given by the Kendriya Vidyalaya Sangathan (KVS).
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Alex's Adventures in Numberland - Alex Bellos 2011-04-04

The world of maths can seem mind-boggling, irrelevant and, let's face it, boring. This groundbreaking book reclaims maths from the geeks. Mathematical ideas underpin just about everything in our lives: from the surprising geometry of the 50p piece to how probability can help you win in any casino. In search of weird and wonderful mathematical phenomena, Alex Bellos travels across the globe and meets the world's fastest mental calculators in Germany and a startlingly numerate chimpanzee in Japan. Packed with fascinating, eye-opening anecdotes, Alex's Adventures in Numberland is an exhilarating cocktail of history, reportage and mathematical proofs that will leave you awestruck.

The Lebesgue Integral for Undergraduates - William Johnston 2015-09-25

In 1902, modern function theory began when Henri Lebesgue described a new "integral calculus." His "Lebesgue integral" handles more functions than the traditional integral-so many more that mathematicians can study collections (spaces) of functions. For example, it defines a distance

between any two functions in a space. This book describes these ideas in an elementary accessible way. Anyone who has mastered calculus concepts of limits, derivatives, and series can enjoy the material. Unlike any other text, this book brings analysis research topics within reach of readers even just beginning to think about functions from a theoretical point of view.

A Tangled Tale - Lewis Carroll 2012

This is the extended and annotated edition including * an extensive biographical annotation about the author and his life * all the original illustrations A Tangled Tale is a collection of ten brief humorous stories by Lewis Carroll (Charles Lutwidge Dodgson), published serially between April 1880 and March 1885 in The Monthly Packet magazine. Arthur B. Frost added illustrations when the series was printed in book form. The stories, or Knots as Carroll calls them, present mathematical problems. In a later issue, Carroll gives the solution to a Knot and discusses readers' answers. The mathematical interpretations of the Knots are not always straightforward. The ribbing of readers answering wrongly — giving their names — was not always well received. (from wikipedia)

AMC 12 Preparation Book - Nairi Sedrakyan 2021-04-10

This book consists only of author-created problems with author-prepared solutions (never published before) and it is intended as a teacher's manual of mathematics, a self-study handbook for high-school students and mathematical competitors interested in AMC 12 (American Mathematics Competitions). The book teaches problem solving strategies and aids to improve problem solving skills. The book includes a list of the most useful theorems and formulas for AMC 12, it also includes 14 sets of author-created AMC 12 type practice tests (350 author-created AMC 12 type problems and their detailed solutions). National Math Competition Preparation (NMCP) program of RSM used part of these 14 sets of practice tests to train students for AMC 12, as a result 75 percent of NMCP high school students qualified for AIME. The authors provide both a list of answers for all 14 sets of author-created AMC 12 type practice tests and author-prepared solutions for each problem. About the authors: Hayk Sedrakyan is an IMO medal winner, professional mathematical Olympiad coach in greater Boston area, Massachusetts, USA. He is the Dean of math competition preparation department at RSM. He has been a Professor of mathematics in Paris and has a PhD in mathematics (optimal control and game theory) from the UPMC - Sorbonne University, Paris, France. Hayk is a Doctor of mathematical sciences in USA, France, Armenia and holds three master's degrees in mathematics from institutions in Germany, Austria, Armenia and has spent a small part of his PhD studies in Italy. Hayk Sedrakyan has worked as a scientific researcher for the European Commission (sadco project) and has been one of the Team Leaders at Harvard-MIT Mathematics Tournament (HMMT). He took part in the International Mathematical Olympiads (IMO) in United Kingdom, Japan and Greece. Hayk has been elected as the President of the students' general assembly and a member of the management board of Cite Internationale Universitaire de Paris (10,000 students, 162 different nationalities) and the same year they were nominated for the Nobel Peace Prize. Nairi Sedrakyan is involved in national and international mathematical Olympiads having been the President of Armenian Mathematics Olympiads and a member of the IMO problem selection committee. He is the author of the most difficult problem ever proposed in the history of the International Mathematical Olympiad (IMO), 5th problem of 37th IMO. This problem is considered to be the hardest problems ever in the IMO because none of the members of the strongest teams (national Olympic teams of China, USA, Russia) succeeded to solve it correctly and because national Olympic team of China (the strongest team in the IMO) obtained a cumulative result equal to 0 points and was ranked 6th in the final ranking of the countries instead of the usual 1st or 2nd place. The British 2014 film X+Y, released in the USA as A Brilliant Young Mind, inspired by the film Beautiful Young Minds (focuses on an English mathematical genius chosen to represent the United Kingdom at the IMO) also states

that this problem is the hardest problem ever proposed in the history of the IMO (minutes 9:40-10:30). Nairi Sedrakyan's students (including his son Hayk Sedrakyan) have received 20 medals in the International Mathematical Olympiad (IMO), including Gold and Silver medals.

102 Combinatorial Problems - Titu Andreescu 2013-11-27

"102 Combinatorial Problems" consists of carefully selected problems that have been used in the training and testing of the USA International Mathematical Olympiad (IMO) team. Key features: * Provides in-depth enrichment in the important areas of combinatorics by reorganizing and enhancing problem-solving tactics and strategies * Topics include: combinatorial arguments and identities, generating functions, graph theory, recursive relations, sums and products, probability, number theory, polynomials, theory of equations, complex numbers in geometry, algorithmic proofs, combinatorial and advanced geometry, functional equations and classical inequalities The book is systematically organized, gradually building combinatorial skills and techniques and broadening the student's view of mathematics. Aside from its practical use in training teachers and students engaged in mathematical competitions, it is a source of enrichment that is bound to stimulate interest in a variety of mathematical areas that are tangential to combinatorics.

The William Lowell Putnam Mathematical Competition 1985-2000

- Kiran S. Kedlaya 2002

This third volume of problems from the William Lowell Putnam Competition is unlike the previous two in that it places the problems in the context of important mathematical themes. The authors highlight connections to other problems, to the curriculum and to more advanced topics. The best problems contain kernels of sophisticated ideas related to important current research, and yet the problems are accessible to undergraduates. The solutions have been compiled from the American Mathematical Monthly, Mathematics Magazine and past competitors. Multiple solutions enhance the understanding of the audience, explaining techniques that have relevance to more than the problem at hand. In addition, the book contains suggestions for further reading, a hint to each problem, separate from the full solution and background information about the competition. The book will appeal to students, teachers, professors and indeed anyone interested in problem solving as a gateway to a deep understanding of mathematics.

Prevention of Healthcare Associated Infections - Usha Krishnan Baveja 2021-01-31

The prevention and control of infection in healthcare environments is now more important than ever. From simple hand washing to full PPE (personal protective equipment), hygiene maintenance has never been more at the forefront of people's minds than during the Coronavirus COVID-19 outbreak. This book is a practical guide to the prevention and control of healthcare and laboratory-associated infections. Divided into twelve sections, the text begins with an introduction to the basic science of infection and the use of antimicrobial agents. The following sections cover prevention and control of infection in different environments and situations including hospitals, laboratories, specific patient groups, and high risk and procedure areas. Different infection transmission methods are discussed in depth. The book concludes with guidance on standards and sample protocols, and training techniques. The comprehensive text is further enhanced by images and flow charts, and each chapter includes MCQs (multiple choice questions) to assist learning and revision. Key points Comprehensive guide to prevention and control of infection in healthcare environments Covers different environments, patient groups and infection transmission methods Features images and flow charts to assist learning Each chapter concludes with MCQs on the topic

A Portrait of the Auteur as Fanboy - Anastasia Salter 2020-10-15

Increasingly over the past decade, fan credentials on the part of writers, directors, and producers have come to be seen as a guarantee of quality media making—the “fanboy auteur.” Figures like Joss Whedon are both one of “us” and one of “them.” This is a strategy of marketing and branding—it is a claim from the auteur himself or industry PR machines that the presence of an auteur who is also a fan means the product is worth consuming. Such claims that fan credentials guarantee quality are often contested, with fans and critics alike rejecting various auteur figures as the true leader of their respective franchises. That split, between assertions of fan and auteur status and acceptance (or not) of that status, is key to unravelling the fan auteur. In *A Portrait of the Auteur as Fanboy: The Construction of Authorship in Transmedia Franchises*, authors Anastasia Salter and Mel Stanfill examine this phenomenon through a series of case studies featuring fanboys. The volume discusses both popular fanboys, such as J. J. Abrams, Kevin Smith, and Joss Whedon, as well as fangirls like J. K. Rowling, E L James, and Patty Jenkins, and

dissects how the fanboy-fangirl auteur dichotomy is constructed and defended by popular media and fans in online spaces, and how this discourse has played in maintaining the exclusionary status quo of geek culture. This book is particularly timely given current discourse, including such incidents as the controversy surrounding Joss Whedon's so-called feminism, the publication of *Harry Potter and the Cursed Child*, and contestation over authorial voices in the DC cinematic universe, as well as broader conversations about toxic masculinity and sexual harassment in Hollywood.

Rising Stars in Human-Robot Interaction - Bilge Mutlu 2022-08-11

Bacteriological Analytical Manual - United States. Food and Drug Administration. Division of Microbiology 1969

Challenging Problems in Algebra - Alfred S. Posamentier 2012-05-04

Over 300 unusual problems, ranging from easy to difficult, involving equations and inequalities, Diophantine equations, number theory, quadratic equations, logarithms, more. Detailed solutions, as well as brief answers, for all problems are provided.

Popular Science - 2007-05

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Consolidated guidelines on HIV prevention, testing, treatment, service delivery and monitoring - World Health Organization 2021-07-16

These consolidated guidelines on HIV prevention, testing, treatment, service delivery and monitoring bring together existing and new clinical and programmatic recommendations across different ages, populations and settings, bringing together all relevant WHO guidance on HIV produced since 2016. It serves as an update to the previous edition of the consolidated guidelines on HIV. These guidelines continue to be structured along the continuum of HIV care. Information on new combination prevention approaches, HIV testing, ARV regimens and treatment monitoring are included. There is a new chapter on advanced HIV disease that integrates updated guidance on the management of important HIV comorbidities, including cryptococcal disease, histoplasmosis and tuberculosis. The chapter on general HIV care, contains a new section on palliative care and pain management, and up to date information on treatment of several neglected tropical diseases, such as visceral leishmaniasis and Buruli ulcer. New recommendations for screening and treating of cervical pre-cancer lesions in women living with HIV are also addressed in this chapter. Guidance on service delivery was expanded to help the implementation and strengthening the HIV care cascade. Importantly, this guidance emphasizes the need for differentiated approaches to care for people who are established on ART, such as reduced frequency of clinic visits, use of multi-month drug dispensing and implementation of community ART distribution. The adoption of these efficiencies is essential to improve the quality of care of people receiving treatment and reduce the burden on health facilities, particularly in resource limited settings.

Challenging Problems in Geometry - Alfred S. Posamentier 2012-04-30
Collection of nearly 200 unusual problems dealing with congruence and parallelism, the Pythagorean theorem, circles, area relationships, Ptolemy and the cyclic quadrilateral, collinearity and concurrency and more. Arranged in order of difficulty. Detailed solutions.

Discrete Mathematics - Oscar Levin 2018-12-31

Note: This is the 3rd edition. If you need the 2nd edition for a course you are taking, it can be found as a "other format" on amazon, or by searching its isbn: 1534970746 This gentle introduction to discrete mathematics is written for first and second year math majors, especially those who intend to teach. The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado. This course serves both as an introduction to topics in discrete math and as the "introduction to proof" course for math majors. The course is usually taught with a large amount of student inquiry, and this text is written to help facilitate this. Four main topics are covered: counting, sequences, logic, and graph theory. Along the way proofs are introduced, including proofs by contradiction, proofs by induction, and combinatorial proofs. The book contains over 470 exercises, including 275 with solutions and over 100 with hints. There are also Investigate! activities throughout the text to support active, inquiry based learning. While there are many fine discrete math textbooks available, this text has the following advantages: It is written to be used in an inquiry rich course. It is written to be used in

a course for future math teachers. It is open source, with low cost print editions and free electronic editions. This third edition brings improved exposition, a new section on trees, and a bunch of new and improved exercises. For a complete list of changes, and to view the free electronic version of the text, visit the book's website at discrete.openmathbooks.org

Proofs in Competition Math: Volume 2 - Alexander Toller

Trigonometry - James Tanton 2015-08-10

This guide covers the story of trigonometry. It is a swift overview, but it is complete in the context of the content discussed in beginning and advanced high-school courses. The purpose of these notes is to supplement and put into perspective the material of any course on the subject you may have taken or are currently taking. (These notes will be tough going for those encountering trigonometry for the very first time!)

An Introduction to Statistical Learning - Gareth James 2013-06-24

An Introduction to Statistical Learning provides an accessible overview of the field of statistical learning, an essential toolset for making sense of the vast and complex data sets that have emerged in fields ranging from biology to finance to marketing to astrophysics in the past twenty years. This book presents some of the most important modeling and prediction techniques, along with relevant applications. Topics include linear regression, classification, resampling methods, shrinkage approaches, tree-based methods, support vector machines, clustering, and more. Color graphics and real-world examples are used to illustrate the methods presented. Since the goal of this textbook is to facilitate the use of these statistical learning techniques by practitioners in science, industry, and other fields, each chapter contains a tutorial on implementing the analyses and methods presented in R, an extremely popular open source statistical software platform. Two of the authors co-wrote *The Elements of Statistical Learning* (Hastie, Tibshirani and Friedman, 2nd edition 2009), a popular reference book for statistics and machine learning researchers. An Introduction to Statistical Learning covers many of the same topics, but at a level accessible to a much broader audience. This book is targeted at statisticians and non-statisticians alike who wish to use cutting-edge statistical learning techniques to analyze their data. The text assumes only a previous course in linear regression and no knowledge of matrix algebra.

Introduction to Algebra - Richard Rusczyk 2009

The Contest Problem Book VIII - J. Douglas Faires 2008

"In 2000, the Mathematical Association of America initiated the American Mathematics Competitions 10 (AMC 10) for students up to grade 10. The Contest Problem Book VIII is the first collection of problems from that competition, covering the years 2000-2007. J. Douglas Faires and David Wells were the joint directors of the AMC 10 and AMC 12 during that period, and have assembled this book of problems and solutions." "There are 350 problems from the first 14 contests included in this collection. A Problem Index at the back of the book classifies the problems into the following major subject areas: Algebra and Arithmetic, Sequences and Series, Triangle Geometry, Circle Geometry, Quadrilateral Geometry, Polygon Geometry, Coordinate Geometry, Solid Geometry, Counting, Discrete Probability, Statistics, Number Theory, and Logic. The major subject areas are then broken down into subcategories for ease of reference. The problems are cross-referenced when they represent several subject areas."--BOOK JACKET.

Mergers, Acquisitions, and Other Restructuring Activities - Donald DePamphilis 2011-08-22

Two strengths distinguish this textbook from others. One is its presentation of subjects in the contexts wherein they occur. The other is its use of current events. Other improvements have shortened and simplified chapters, increased the numbers and types of pedagogical supplements, and expanded the international appeal of examples.

Prealgebra Solutions Manual - Richard Rusczyk 2011-08

Social Science Research - Anol Bhattacharjee 2012-04-01

This book is designed to introduce doctoral and graduate students to the process of conducting scientific research in the social sciences, business, education, public health, and related disciplines. It is a one-stop, comprehensive, and compact source for foundational concepts in behavioral research, and can serve as a stand-alone text or as a supplement to research readings in any doctoral seminar or research methods class. This book is currently used as a research text at universities on six continents and will shortly be available in nine different languages.

Handbook on Battery Energy Storage System - Asian Development Bank 2018-12-01

This handbook serves as a guide to deploying battery energy storage technologies, specifically for distributed energy resources and flexibility resources. Battery energy storage technology is the most promising, rapidly developed technology as it provides higher efficiency and ease of control. With energy transition through decarbonization and decentralization, energy storage plays a significant role to enhance grid efficiency by alleviating volatility from demand and supply. Energy storage also contributes to the grid integration of renewable energy and promotion of microgrid.

The Art of Problem Solving, Volume 1 - Sandor Lehoczky 2006

"... offer[s] a challenging exploration of problem solving mathematics and preparation for programs such as MATHCOUNTS and the American Mathematics Competition."--Back cover

Introduction to Geometry - Richard Rusczyk 2007-07-01

The Art of Problem Solving: pt. 2 And beyond solutions manual - Sandor Lehoczky 2006

"... offer[s] a challenging exploration of problem solving mathematics and preparation for programs such as MATHCOUNTS and the American Mathematics Competition."--Back cover

Proofs in Competition Math: Volume 1 - Alexander Toller

Big Data - Hong Mei 2021-03-31

This book constitutes the proceedings of the 8th CCF Conference on Big Data, BigData 2020, held in Chongqing, China, in October 2020. The 16 full papers presented in this volume were carefully reviewed and selected from 65 submissions. They present recent research on theoretical and technical aspects on big data, as well as on digital economy demands in big data applications.

Price Setting and Price Regulation in Health Care - OECD 2019-06-26

The objectives of this study are to describe experiences in price setting and how pricing has been used to attain better coverage, quality, financial protection, and health outcomes. It builds on newly commissioned case studies and lessons learned in calculating prices, negotiating with providers, and monitoring changes. Recognising that no single model is applicable to all settings, the study aimed to generate best practices and identify areas for future research, particularly in low- and middle-income settings. The report and the case studies were jointly developed by the OECD and the WHO Centre for Health Development in Kobe (Japan).

Wiley CPAexcel Exam Review 2015 Study Guide (January) - O. Ray Whittington 2014-11-04

The world's most effective CPA exam prep system – Financial Accounting and Reporting module Wiley CPAexcel Exam Review is the world's most trusted study guide for the Certified Public Accountant's exam – complete, comprehensive, and updated to align with the latest exam content. With 2,800 practice questions and solutions across four volumes, the unique modular format helps you organize your study program, zeroing in on areas that need work. This volume, Financial Accounting and Reporting, contains all current AICPA content requirements, providing total coverage of this section of the exam. You'll get detailed outlines and study tips, simulation and multiple choice questions, and skill-building problems that have made this guide the most effective CPA prep system for over thirty years. The uniform CPA exam is updated annually to include new laws, regulations, and guidelines, so it's important that your study guide be up to date as well. Wiley CPAexcel Exam Review is updated annually to reflect the latest version of the exam, and is the number-one bestselling CPA study guide in the world because it provides full, comprehensive coverage of all exam content, and more practice questions than any other guide – many of which are taken directly from past exams. The unique format allows you to: Identify, target, and master problem areas section by section Learn how to logically build your knowledge stores for better recall Practice with thousands of sample questions taken from past exams Review all exam content, including the newest guidelines and regulations No one wants surprises on exam day, and thorough preparation is the key to successful performance. Whether you're embarking on a new study program, or just need a quick refresher before the exam, Wiley CPAexcel Exam Review is proven to be the most current, complete, comprehensive prep you can get.

The Contest Problem Book IX - David M. Wells 2008-12-18

For over fifty years, the Mathematical Association of America (MAA) has been engaged in the construction and administration of challenging contests for students in American and Canadian high schools at every level of ability. This is the ninth book of problems and solutions from the

American Mathematics Competitions 12 (AMC), aimed at students of high school age, and featuring 325 problems from the 13 AMC contests held in the years 2001-2007. Graphs and figures have since been redrawn to make them more consistent in form and style, and the solutions to the problems have been both edited and supplemented. The Problem Index contained classifies the problems into the following major subject areas: Algebra and Arithmetic, Sequences and Series, Triangle Geometry, Circle Geometry, Quadrilateral Geometry, Polygon Geometry, Counting Coordinate Geometry, Solid Geometry, Discrete Probability, Statistics, Number Theory, and Logic. These are then broken down into subcategories and cross-referenced for ease of use.

Introduction to Counting and Probability - David Patrick 2007-08

[A Gentle Introduction to the American Invitational Mathematics Exam](#) - Scott A. Annin 2015-11-16

This book is a celebration of mathematical problem solving at the level of the high school American Invitational Mathematics Examination. There is no other book on the market focused on the AIME. It is intended, in part, as a resource for comprehensive study and practice for the AIME competition for students, teachers, and mentors. After all, serious AIME contenders and competitors should seek a lot of practice in order to succeed. However, this book is also intended for anyone who enjoys solving problems as a recreational pursuit. The AIME contains many problems that have the power to foster enthusiasm for mathematics – the problems are fun, engaging, and addictive. The problems found within these pages can be used by teachers who wish to challenge their students, and they can be used to foster a community of lovers of mathematical problem solving! There are more than 250 fully-solved problems in the book, containing examples from AIME competitions of the 1980's, 1990's, 2000's, and 2010's. In some cases, multiple solutions are presented to highlight variable approaches. To help problem-solvers with the exercises, the author provides two levels of hints to each exercise in the book, one to help stuck starters get an idea how to begin, and another to provide more guidance in navigating an approach to the solution.

CAE Study Guide 2015 - American Society of Association Executives (ASAE) 2015-01-06

The ASAE CAE preparation guide featuring 100 exam questions This is the ASAE test prep resource for the CAE exam, which leads to certification as an association executive. The ASAE CAE Study Guide (2015): Preparation Reference for the Certified Association Executive Exam + Practice Test Bank is the only book with a practice exam based on actual questions released from the official CAE item bank. This edition reflects newly updated and revised job analysis study findings from the American Society of Association Executives (ASAE). In this book, you'll find everything you need to feel confident on test day, including high-level summaries of all the content covered in the CAE content outline's nine domains. In addition to easy-to-digest content sections, CAE Study Guide (2015) is full of indispensable resources for anyone preparing for CAE certification. The online practice exam includes 100 questions released from the official CAE exam database, and testing tips will orient you toward the most successful strategies. Comprehensive content summaries of all nine domains tested on the CAE exam Online practice exam consisting of 100

questions drawn from the CAE test item database, plus answer key Preparation resources including recommended reading, key definitions, self-assessment, CAE study questions, and more Exam day readiness tips and suggestions for creating a study plan, focusing on difficult areas, and reducing test anxiety Beginning with the May 2015 CAE exam, the CAE Commission will implement its revised CAE test based on the updated content structure. CAE Study Guide (2015) is a terrifically useful resource for anyone seeking CAE certification.

[Governing the Commons](#) - Elinor Ostrom 2015-09-23

Tackles one of the most enduring and contentious issues of positive political economy: common pool resource management.

Commanders Digest - 1974

[A Decade of the Berkeley Math Circle](#) - Zvezdelina Stankova 2008-11-26

Many mathematicians have been drawn to mathematics through their experience with math circles: extracurricular programs exposing teenage students to advanced mathematical topics and a myriad of problem solving techniques and inspiring in them a lifelong love for mathematics. Founded in 1998, the Berkeley Math Circle (BMC) is a pioneering model of a U.S. math circle, aspiring to prepare our best young minds for their future roles as mathematics leaders. Over the last decade, 50 instructors--from university professors to high school teachers to business tycoons--have shared their passion for mathematics by delivering more than 320 BMC sessions full of mathematical challenges and wonders. Based on a dozen of these sessions, this book encompasses a wide variety of enticing mathematical topics: from inversion in the plane to circle geometry; from combinatorics to Rubik's cube and abstract algebra; from number theory to mass point theory; from complex numbers to game theory via invariants and monovariants. The treatments of these subjects encompass every significant method of proof and emphasize ways of thinking and reasoning via 100 problem solving techniques. Also featured are 300 problems, ranging from beginner to intermediate level, with occasional peaks of advanced problems and even some open questions. The book presents possible paths to studying mathematics and inevitably falling in love with it, via teaching two important skills: thinking creatively while still "obeying the rules," and making connections between problems, ideas, and theories. The book encourages you to apply the newly acquired knowledge to problems and guides you along the way, but rarely gives you ready answers. "Learning from our own mistakes" often occurs through discussions of non-proofs and common problem solving pitfalls. The reader has to commit to mastering the new theories and techniques by "getting your hands dirty" with the problems, going back and reviewing necessary problem solving techniques and theory, and persistently moving forward in the book. The mathematical world is huge: you'll never know everything, but you'll learn where to find things, how to connect and use them. The rewards will be substantial. 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.