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KEY=CLASS - ALESSANDRA HESTER

Cambridge Primary Mathematics Stage 6 Games Book with CD-ROM

Cambridge University Press Written for use with the Cambridge Primary Mathematics Curriculum Framework, and endorsed by Cambridge International Examinations, the Cambridge Primary Mathematics series is informed by the most up-to-date teaching philosophies from around the world. It aims to support teachers to help all learners become confident and successful mathematicians through a fun and engaging scheme. Through an investigatory approach children learn the skills of problem solving in the context of other mathematical strands in the course. The course will encourage learners to be independent thinkers with the confidence to tackle a wide range of problems who understand the value and relevance of their mathematics. Classroom discussion is encouraged to help learners become good mathematical communicators, to justify answers and to make connections between ideas. This series is part of Cambridge Maths (www.cie.org.uk/cambridgeprimarymaths), a project between Cambridge University Press and Cambridge International Examinations and is appropriate for learners sitting the Primary Checkpoint test.

Concrete Mathematics: A Foundation for Computer Science

Pearson Education India

GCSE Mathematics for AQA Foundation Homework Book

Cambridge University Press A new series of bespoke, full-coverage resources developed for the 2015 GCSE Mathematics qualifications. Written for the AQA GCSE Mathematics Foundation tier specification for first teaching from 2015, our Homework Book is an ideal companion to the AQA Foundation tier Student Book and can be used as a standalone resource. With exercises that correspond to each section of the Student Book, it offers a wealth of additional questions for practice and consolidation. Our Homework Books contain a breadth and depth of questions covering a variety of skills, including problem-solving and mathematical reasoning, as well as extensive drill questions. Answers to all questions are available free on the Cambridge University Press UK Schools website.

An Introduction to Linear Programming and Game Theory

John Wiley & Sons Praise for the Second Edition: "This is quite a well-done book: very tightly organized, better-than-average exposition, and numerous examples, illustrations, and applications." —Mathematical Reviews of the American Mathematical Society An Introduction to Linear Programming and Game Theory, Third Edition presents a rigorous, yet accessible, introduction to the theoretical concepts and computational techniques of linear programming and game theory. Now with more extensive modeling exercises and detailed integer programming examples, this book uniquely illustrates how mathematics can be used in real-world applications in the social, life, and managerial sciences, providing readers with the opportunity to develop and apply their analytical abilities when solving realistic problems. This Third Edition addresses various new topics and improvements in the field of mathematical programming, and it also presents two software programs, LP Assistant and the Solver add-in for Microsoft Office Excel, for solving linear programming problems. LP Assistant, developed by coauthor Gerard Keough, allows readers to perform the basic steps of the algorithms provided in the book and is freely available via the book's related Web site. The use of the sensitivity analysis report and integer programming algorithm from the Solver add-in for Microsoft Office Excel is introduced so readers can solve the book's linear and integer programming problems. A detailed appendix contains instructions for the use of both applications. Additional features of the Third Edition include: A discussion of sensitivity analysis for the two-variable problem, along with new examples demonstrating integer programming, non-linear programming, and make vs. buy models Revised proofs and a discussion on the relevance and solution of the dual problem A section on developing an example in Data Envelopment Analysis An outline of the proof of John Nash's theorem on the existence of equilibrium strategy pairs for non-cooperative, non-zero-sum games Providing a complete mathematical development of all presented concepts and examples, Introduction to Linear Programming and Game Theory, Third Edition is an ideal text for linear programming and mathematical modeling courses at the upper-undergraduate and graduate levels. It also serves as a valuable reference for professionals who use game theory in business, economics, and management science.

Lecture Notes on Mathematical Olympiad Courses

For Junior Section

World Scientific 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 of 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 number of test questions is available for reader's practice and testing purpose. Their detailed solutions are also conveniently provided. The examples are not very complicated so that readers can easily understand. There are many real competition questions included which students can use to verify their abilities. These test questions are from many countries, e.g. China, Russia, USA, Singapore, etc. In particular, the reader can find many questions from China, if he is interested in understanding mathematical Olympiad in China. This book serves as a useful textbook of mathematical Olympiad courses, or as a reference book for related teachers and researchers. Errata(s). Errata. Sample Chapter(s). Lecture 1: Operations on Rational Numbers (145k). Request Inspection Copy. Contents: ..: Operations on Rational Numbers; Linear Equations of Single Variable; Multiplication Formulae; Absolute Value and Its Applications; Congruence of Triangles; Similarity of Triangles; Divisions of Polynomials; Solutions to Testing Questions; and other chapters. Readership: Mathematics students, school teachers, college lecturers, university professors; mathematics enthusiasts

Challenging Problems in Geometry

Courier Corporation 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.

GCSE Mathematics for AQA Foundation Student Book

Cambridge University Press A new series of bespoke, full-coverage resources developed for the 2015 GCSE Mathematics qualifications. Approved by AQA and created specifically for the GCSE Mathematics Foundation tier specification for first teaching from 2015, this Student Book covers the new GCSE Mathematics qualification. With a strong focus on developing problem-solving skills, reasoning and fluency, it helps students understand concepts, apply techniques, solve problems, reason, interpret and communicate mathematically. Written by experienced teachers, it also includes a solid breadth and depth of quality questions set in a variety of contexts. GCSE Mathematics Online - an enhanced digital resource incorporating progression tracking - is also available, as well as Problem-solving Books, Homework Books and a free Teacher's Resource.

Fundamentals of Mathematics

An Introduction to Neural Networks

CRC Press Though mathematical ideas underpin the study of neural networks, the author presents the fundamentals without the full mathematical apparatus. All aspects of the field are tackled, including artificial neurons as models of their real counterparts; the geometry of network action in pattern space; gradient descent methods, including back-propagation; associative memory and Hopfield nets; and self-organization and feature maps. The traditionally difficult topic of adaptive resonance theory is clarified within a hierarchical description of its operation. The book also includes several real-world examples to provide a concrete focus. This should enhance its appeal to those involved in the design, construction and management of networks in commercial environments and who wish to improve their understanding of network simulator packages. As a comprehensive and highly accessible introduction to one of the most important topics in cognitive and computer science, this volume should interest a wide range of readers, both students and professionals, in cognitive science, psychology, computer science and electrical engineering.

A Level Further Mathematics for AQA Student Book 1 (AS/Year 1)

Cambridge University Press New 2017 Cambridge A Level Maths and Further Maths resources to help students with learning and revision. Written for the AQA AS/A Level Further Mathematics specifications for first teaching from 2017, this print Student Book covers the compulsory content for AS and the first year of A Level. It balances accessible exposition with a wealth of worked examples, exercises and opportunities to test and consolidate learning, providing a clear and structured pathway for progressing through the course. It is underpinned by a strong pedagogical approach, with an emphasis on skills development and the synoptic nature of the course. Includes answers to aid independent study. This book has entered an AQA approval process.

No bullshit guide to math and physics

Minireference Co. Often calculus and mechanics are taught as separate subjects. It shouldn't be like that. Learning calculus without mechanics is incredibly boring. Learning mechanics without calculus is missing the point. This textbook integrates both subjects and highlights the profound connections between them. This is the deal. Give me 350 pages of your attention, and I'll teach you everything you need to know about functions, limits, derivatives, integrals, vectors, forces, and accelerations. This book is the only math book you'll need for the first semester of undergraduate studies in science. With concise, jargon-free lessons on topics in math and physics, each section covers one concept at the level required for a first-year university course. Anyone can pick up this book and become proficient in calculus and mechanics, regardless of their mathematical background.

Strengthening Forensic Science in the United States

A Path Forward

National Academies Press Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Proofs from THE BOOK

Springer Science & Business Media According to the great mathematician Paul Erdős, God maintains perfect mathematical proofs in The Book. This book presents the authors candidates for such "perfect proofs," those which contain brilliant ideas, clever connections, and wonderful observations, bringing new insight and surprising perspectives to problems from number theory, geometry, analysis, combinatorics, and graph theory. As a result, this book will be fun reading for anyone with an interest in mathematics.

Cambridge Primary Mathematics Stage 5 Teacher's Resource with CD-ROM

Cambridge University Press This series is endorsed by Cambridge International Examinations and is part of Cambridge Maths.

SBI Apprentice Practice Set 2021 - Solve Free Practice PDF Here!

SBI Apprentice Practice Set 2021 Officially Out - A Guide for Apprenticeship to State Bank of India.

Testbook.com Download free SBI Apprentice Practice Set 2021 in PDF. This guide has an all-round approach to help you assist with SBI Apprentice syllabus and exam pattern. Written as per exam trends, use these expert concepts to crack SBI Apprentice 2021 exam.

A Level Mathematics for OCR A Student Book 1 (AS/Year 1)

Cambridge University Press New 2017 Cambridge A Level Maths and Further Maths resources to help students with learning and revision. Written for the OCR AS/A Level Mathematics specifications for first teaching from 2017, this print Student Book covers the content for AS and the first year of A Level. It balances accessible exposition with a wealth of worked examples, exercises and opportunities to test and consolidate learning, providing a clear and structured pathway for progressing through the course. It is underpinned by a strong pedagogical approach, with an emphasis on skills development and the synoptic nature of the course. Includes answers to aid independent study.

Discrete Mathematics

An Open Introduction

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

Professor Povey's Perplexing Problems

Pre-University Physics and Maths Puzzles with Solutions

Oneworld Publications In Professor Povey's Perplexing Problems, Thomas Povey shares 109 of his favourite problems in physics and maths. A tour de force of imagination and exposition, he takes us by the hand and guides us through uncompromisingly challenging territory that expands our minds and encourages a playful and exploratory approach to study. The puzzles, he says, are like toys. We should pick up the one we most enjoy, and play with it. Whether you are an aspiring scientist or an old-hand, pitting yourself against these problems will test your ability to think, and inspire you with curiosity and enthusiasm for physics. Presented with charm and wit, the questions span the gap between high-school and university-entrance standard material. Detailed answers are lightened with a fascinating and refreshing blend of scientific history, application and personal anecdote. On this delightful and idiosyncratic romp through pre-university maths and physics, the author shows us that behind every single one of these questions lies a new way of thinking about subjects we thought we had understood. He argues that engaging with the unfamiliar is key to forming deeper insights and developing intellectual independence. Professor Povey's Perplexing Problems is a manifesto that science should be playful, and a celebration of the curious.

A Book of Abstract Algebra

Second Edition

Courier Corporation Accessible but rigorous, this outstanding text encompasses all of the topics covered by a typical course in elementary abstract algebra. Its easy-to-read treatment offers an intuitive approach, featuring informal discussions followed by thematically arranged exercises. This second edition features additional exercises to improve student familiarity with applications. 1990 edition.

A Synopsis of Elementary Results in Pure and Applied Mathematics: Volume 2

Containing Propositions, Formulae, and Methods of Analysis, with Abridged Demonstrations

Cambridge University Press When George Shoobridge Carr (1837-1914) wrote his Synopsis of Elementary Results he intended it as an aid to students preparing for degree-level examinations such as the Cambridge Mathematical Tripos, for which he provided private tuition. He would have been startled to see the two volumes, first published in 1880 and 1886 respectively, reissued more than a century

later. Notably, in 1903 the work fell into the hands of the Indian prodigy Srinivasa Ramanujan (1887-1920) and greatly influenced his mathematical education. It is the interaction between a methodical teaching aid and the soaring spirit of a self-taught genius which gives this reissue its interest. Volume 2 contains sections on differential calculus, integral calculus, calculus of variations, differential equations, calculus of finite differences, plane coordinate geometry and solid coordinate geometry. Also included is a historically valuable index insofar as it provides references to 890 volumes of 32 periodicals dating back to 1800.

A Level Mathematics for AQA Student Book 2 (Year 2)

Cambridge University Press A comprehensive series of bespoke resources developed for the 2017 AS/A Level Mathematics specifications. Written for the AQA A Level Mathematics specification for first teaching from 2017, this print Student Book covers the content for the second year of A Level. It balances accessible exposition with a wealth of worked examples, exercises and opportunities to test and consolidate learning, providing a clear and structured pathway for progressing through the course. It is underpinned by a strong pedagogical approach, with an emphasis on skills development and the synoptic nature of the course. Includes answers to aid independent study.

The Equation That Couldn't Be Solved

How Mathematical Genius Discovered the Language of Symmetry

Simon & Schuster What do Bach's compositions, Rubik's Cube, the way we choose our mates, and the physics of subatomic particles have in common? All are governed by the laws of symmetry, which elegantly unify scientific and artistic principles. Yet the mathematical language of symmetry-known as group theory-did not emerge from the study of symmetry at all, but from an equation that couldn't be solved. For thousands of years mathematicians solved progressively more difficult algebraic equations, until they encountered the quintic equation, which resisted solution for three centuries. Working independently, two great prodigies ultimately proved that the quintic cannot be solved by a simple formula. These geniuses, a Norwegian named Niels Henrik Abel and a romantic Frenchman named Évariste Galois, both died tragically young. Their incredible labor, however, produced the origins of group theory. The first extensive, popular account of the mathematics of symmetry and order, *The Equation That Couldn't Be Solved* is told not through abstract formulas but in a beautifully written and dramatic account of the lives and work of some of the greatest and most intriguing mathematicians in history.

Immunisation against infectious diseases

The Stationery Office This is the third edition of this publication which contains the latest information on vaccines and vaccination procedures for all the vaccine preventable infectious diseases that may occur in the UK or in travellers going outside of the UK, particularly those immunisations that comprise the routine immunisation programme for all children from birth to adolescence. It is divided into two sections: the first section covers principles, practices and procedures, including issues of consent, contraindications, storage, distribution and disposal of vaccines, surveillance and monitoring, and the Vaccine Damage Payment Scheme; the second section covers the range of different diseases and vaccines.

Cambridge Primary Mathematics Stage 2 Teacher's Resource with CD-ROM

Cambridge University Press This series is endorsed by Cambridge International Examinations and is part of Cambridge Maths.

IGCSE Cambridge International Mathematics (0607) Extended

Cambridge Igcse Mathematics

Hodder Education This second edition, written especially to support the University of Cambridge International Examinations IGCSE Mathematics (0580) syllabus, is now in full colour and includes a student's CD. The text is ideal for students following the Extended Curriculum. International contexts are used throughout to aid understanding and ensure this text is relevant to students everywhere.

Numerical Solutions of Initial Value Problems Using Mathematica

Morgan & Claypool Publishers The book contains a detailed account of numerical solutions of differential equations of elementary problems of Physics using Euler and 2nd order Runge-Kutta methods and Mathematica 6.0. The problems are motion under constant force (free fall), motion under Hooke's law force (simple harmonic motion), motion under combination of Hooke's law force and a velocity dependent damping force (damped harmonic motion) and radioactive decay law. Also included are uses of Mathematica in dealing with complex numbers, in solving system of linear equations, in carrying out differentiation and integration, and in dealing with matrices.

Cambridge Primary Mathematics Stage 1 Teacher's Resource with CD-ROM

Cambridge University Press This series is endorsed by Cambridge International Examinations and is part of Cambridge Maths.

Cambridge Primary Mathematics Stage 3 Games Book with CD-ROM

Cambridge University Press This series is endorsed by Cambridge International Examinations and is part of Cambridge Maths.

South Korea Society & Culture Complete Report

Basic Algebra

Springer Science & Business Media Basic Algebra and Advanced Algebra systematically develop concepts and tools in algebra that are vital to every mathematician, whether pure or applied, aspiring or established. Together, the two books give the reader a global view of algebra and its role in mathematics as a whole. The presentation includes blocks of problems that introduce additional topics and applications to science and engineering to guide further study. Many examples and hundreds of problems are included, along with a separate 90-page section giving hints or complete solutions for most of the problems.

Inequalities

A Mathematical Olympiad Approach

Springer Science & Business Media This book is intended for the Mathematical Olympiad students who wish to prepare for the study of inequalities, a topic now of frequent use at various levels of mathematical competitions. In this volume we present both classic inequalities and the more useful inequalities for confronting and solving optimization problems. An important part of this book deals with geometric inequalities and this fact makes a big difference with respect to most of the books that deal with this topic in the mathematical olympiad. The book has been organized in four chapters which have each of them a different character. Chapter 1 is dedicated to present basic inequalities. Most of them are numerical inequalities generally lacking any geometric meaning. However, where it is possible to provide a geometric interpretation, we include it as we go along. We emphasize the importance of some of these inequalities, such as the inequality between the arithmetic mean and the geometric mean, the Cauchy-Schwarz inequality, the rearrangement inequality, the Jensen inequality, the Muirhead theorem, among others. For all these, besides giving the proof, we present several examples that show how to use them in mathematical olympiad problems. We also emphasize how the substitution strategy is used to deduce several inequalities.

Fractional Differential Equations

An Introduction to Fractional Derivatives, Fractional Differential Equations, to Methods of Their Solution and Some of Their Applications

Elsevier This book is a landmark title in the continuous move from integer to non-integer in mathematics: from integer numbers to real numbers, from factorials to the gamma function, from integer-order models to models of an arbitrary order. For historical reasons, the word 'fractional' is used instead of the word 'arbitrary'. This book is written for readers who are new to the fields of fractional derivatives and fractional-order mathematical models, and feel that they need them for developing more adequate mathematical models. In this book, not only applied scientists, but also pure mathematicians will find fresh motivation for developing new methods and approaches in their fields of research. A reader will find in this book everything necessary for the initial study and immediate application of fractional derivatives fractional differential equations, including several necessary special functions, basic theory of fractional differentiation, uniqueness and existence theorems, analytical numerical methods of solution of fractional differential equations, and many inspiring examples of applications. A unique survey of many applications of fractional calculus Presents basic theory Includes a unified presentation of

selected classical results, which are important for applications Provides many examples Contains a separate chapter of fractional order control systems, which opens new perspectives in control theory The first systematic consideration of Caputo's fractional derivative in comparison with other selected approaches Includes tables of fractional derivatives, which can be used for evaluation of all considered types of fractional derivatives

Differential and Integral Calculus

John Wiley & Sons The classic introduction to the fundamentals of calculus Richard Courant's classic text Differential and Integral Calculus is an essential text for those preparing for a career in physics or applied math. Volume 1 introduces the foundational concepts of "function" and "limit", and offers detailed explanations that illustrate the "why" as well as the "how". Comprehensive coverage of the basics of integrals and differentials includes their applications as well as clearly-defined techniques and essential theorems. Multiple appendices provide supplementary explanation and author notes, as well as solutions and hints for all in-text problems.

Elements of Mathematics for Economics and Finance

Springer Science & Business Media This book equips undergraduates with the mathematical skills required for degree courses in economics, finance, management, and business studies. The fundamental ideas are described in the simplest mathematical terms, highlighting threads of common mathematical theory in the various topics. Coverage helps readers become confident and competent in the use of mathematical tools and techniques that can be applied to a range of problems.

Quantitative Aptitude Quantum Cat

Arihant Publications India limited 1. 'Quantum Cat'- the bestselling study guide for Management entrances 2. The entire syllabus has been divided into 21 Chapters 3. Every chapter is accompanied with CAT Test for quick revision of concepts 4. More than 400 Fundamental Concepts are provided for better understanding 5. More than 1000 Examples are provided with Use-Cases, Twists, Tricks Choices and Lateral Solutions 6. More than 5000 hand crafted problem are given for the practice 7. 2000 New MCQs have been provided for thorough practice Quantitative Aptitude is a core component for getting a winning CAT Score. Out of every section, Quantitative Ability is one of the most unpredictable and time consuming section. Quantitative Aptitude stems an important part of an individuals' analytical and logical ability for solving complex problems, making it a filtering tool for qualifying CAT and other Management Entrances. The current edition of "Quantum Cat" has been designed by keeping in mind the needs of those who wish to enhance Quantitative Aptitude for CAT and other Management Examinations. The entire syllabus of Quantitative Aptitude section is divided into 21 Chapters and every topic has 2-3 levels of questions that help students to get prepared for the most difficult problems even beyond the CAT Level. At the end of every chapter there is 'CAT Test' that contains problems related to the topic that helps in the quick revision of the concepts. This edition has more than 400 Fundamental Concepts to remember, more than 1000 examples are used to give the conceptual clarity with the methods and tricks are used to solve the questions. With the solution oriented approach this book provides more than 5000 hand crafted problems with their respective solution. It also includes more than 2000 MCQs for thorough practice. This book provides the alternative and smarter solutions to get correct answers in lesser time to crack CAT. This book is highly useful for not only for management entrances but for other competitive examinations. With so many features this book is a complete preparatory guide for those who have aim to score high in CAT.

Mathematical Foundations of Quantum Theory

Elsevier Mathematical Foundations of Quantum Theory is a collection of papers presented at the 1977 conference on the Mathematical Foundations of Quantum Theory, held in New Orleans. The contributors present their topics from a wide variety of backgrounds and specialization, but all shared a common interest in answering quantum issues. Organized into 20 chapters, this book's opening chapters establish a sound mathematical basis for quantum theory and a mode of observation in the double slit experiment. This book then describes the Lorentz particle system and other mathematical structures with which fundamental quantum theory must deal, and then some unsolved problems in the quantum logic approach to the foundations of quantum mechanics are considered. Considerable chapters cover topics on manuals and logics for quantum mechanics. This book also examines the problems in quantum logic, and then presents examples of their interpretation and relevance to nonclassical logic and statistics. The accommodation of conventional Fermi-Dirac and Bose-Einstein statistics in quantum mechanics or quantum field theory is illustrated. The final chapters of the book present a system of axioms for nonrelativistic quantum mechanics, with particular emphasis on the role of density operators as states. Specific connections of this theory with other formulations of quantum theory are also considered. These chapters also deal with the determination of the state of an elementary quantum mechanical system by the associated position and momentum distribution. This book is of value to physicists, mathematicians, and researchers who are interested in quantum theory.

Cambridge International AS and A Level Mathematics: Pure Mathematics 2 & 3 Coursebook

Cambridge University Press This series has been developed specifically for the Cambridge International AS & A Level Mathematics (9709) syllabus to be examined from 2020. Cambridge International AS & A Level Mathematics: Pure Mathematics 2 & 3 matches the corresponding units of the syllabus. It clearly indicates materials required for P3 study only, and contains materials on topics such as logarithmic and exponential functions, trigonometry, differentiation, integration, numerical solutions of equations, vectors and complex numbers. This coursebook contains a variety of features including recap sections for students to check their prior knowledge, detailed explanations and worked examples, end-of-chapter and cross-topic review exercises and 'Explore' tasks to encourage deeper thinking around mathematical concepts. Answers to coursebook questions are at the back of the book.

Networks, Crowds, and Markets

Reasoning About a Highly Connected World

Cambridge University Press Are all film stars linked to Kevin Bacon? Why do the stock markets rise and fall sharply on the strength of a vague rumour? How does gossip spread so quickly? Are we all related through six degrees of separation? There is a growing awareness of the complex networks that pervade modern society. We see them in the rapid growth of the Internet, the ease of global communication, the swift spread of news and information, and in the way epidemics and financial crises develop with startling speed and intensity. This introductory book on the new science of networks takes an interdisciplinary approach, using economics, sociology, computing, information science and applied mathematics to address fundamental questions about the links that connect us, and the ways that our decisions can have consequences for others.

The Best Mental Math Tricks

Can you multiply 35x35 in your head? That is, can you square the number 35? There's a mental math trick so that you can easily square any number ending in 5. Here's how the trick works. Look at the first digit of 35, which is the number 3. We add one to that number, 4, and then multiply those two numbers together. So we have $3 \times 4 = 12$, and these are the leading digits of the answer. Now we just write 25 as the last two digits, so we get 1225. And that's it! We have calculated 35 squared is 1,225 in an amazingly simple way! Math does not have to be hard. The Best Mental Math Tricks is a collection of methods that can help you become a lightning calculator. You will learn how to solve daily problems like calculating percentages and figuring out which day your birthday is every year. Then you will learn how to square numbers, multiply numbers, divide numbers, and even solve complex problems like calculating the cube root of numbers in your head! Each method is explained in detail with numerous examples. Every method is mathematically justified with a formal proof. Each section also contains practice problems accompanied with complete solutions so you can try the method and check your work.