

PETER M. HIGGINS

MATHEMATICS FOR THE CURIOUS



Mathematics For The Curious

Peter Higgins



Mathematics For The Curious:

Mathematics for the Curious Peter M. Higgins, 1998-03-12 When do the hands of a clock coincide How likely is it that two children in the same class will share a birthday Should you play Roulette or the Lottery How do we calculate the volume of a doughnut Why does the android Data in Star Trek lose at poker What is Fibonacci's Rabbit Problem Many things in the world have a mathematical side to them as revealed by the puzzles and questions in this book It is written for anyone who is curious about mathematics and would like a simple and entertaining account of what it can do Peter Higgins provides clear explanations of the more mysterious features of childhood mathematics as well as novelties and connections to prove that mathematics can be enjoyable and full of surprises *Mathematics for the Curious* Peter M. Higgins, 2023 In a series of puzzles and mathematical curiosities the author introduces the reader to the entertaining side of mathematics to show what how enjoyable and surprising it can be

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A Brief History Of Mathematics For Curious Minds Krzysztof R Apt, 2023-11-17 This book offers a short and accessible account of the history of mathematics written for the intelligent layman to gain a better appreciation of its beauty relevance and place in history It traces the development of the subject throughout the centuries starting with the so called Lebombo bone the oldest known mathematical object that was estimated to be at least 43 000 years old and ending with the 21st century The presentation is informal and no prior knowledge of mathematics is needed to enjoy the systematic chronological insights A collection of appendices is included for more technical material though still at the level of secondary school mathematics and is concerned with the historically important proofs and concepts that can be explained in a simple way

Book of Curious and Interesting Puzzles David Wells, 2006 Of immense interest to those who enjoy recreational maths and puzzles even the most hardened puzzler will find something new Mathematical Gazette Puzzles are as old as history itself following an arc like that of technology centuries of slow progress followed by rapid expansion in the 1800s and an explosion of activity in the twentieth century This collection by bestselling author David Wells a Cambridge math scholar and teacher follows that pattern Its first part is devoted to puzzles from ancient Egypt and Babylon and subsequent sources featuring those devised by Lewis Carroll Eduard Lucas Sam Loyd and other master puzzlers of the Victorian era The second part demonstrates the tremendous variety of twentieth century puzzles More than 560 puzzles are included from the mind sharpeners of a medieval monk to the eighteenth century Ladies Diary the

Hindu Bhakshali manuscript and riddles and popular rhymes None requires any mathematics beyond the most elementary algebra and geometry and few require even that Complete answers appear at the end Science and Math for Curious Kids Lynn Huggins-Cooper, Laura Baker, 2023-03 Uses a clear mix of pictures diagrams and instructions that help to build knowledge boost confidence and gain understanding Children will explore the history of math and physics and understand how the world works **Ontological Mathematics for the Curious** Dr. Cody Newman, There s a new kid on the block a subject that can revolutionize humanity s understanding of reality while being completely rational and logical and scrupulously avoiding faith and mysticism It s the long awaited replacement for science Only one subject can take over from science and that is the subject that is already at the core of science and gives it all of its power and success namely mathematics Come inside and discover the extraordinary world of ontological mathematics Mathematics is not an unreal abstraction It s real and concrete Mathematics for the Imagination Peter Higgins, 2002-09-26 Mathematics for the Imagination provides an accessible and entertaining investigation into mathematical problems in the world around us From world navigation family trees and calendars to patterns tessellations and number tricks this informative and fun new book helps you to understand the maths behind real life questions and rediscover your arithmetical mind This is a follow up to the popular Mathematics for the Curious Peter Higgins s first investigation into real life mathematical problems A highly involving book which encourages the reader to enter into the spirit of mathematical exploration *A Curious History of Mathematics* Joel Levy, 2016-03 Mathematics opens new doors to the amazing world of maths Telling the exciting story from a historical perspective it shows how mathematical science advanced through the discoveries of the ancient Babylonians Egyptians and Greeks the great scholars of medieval Islam and Europe and the Renaissance and the birth of the Scientific Revolution From the simplest concepts of numbers and arithmetic geometry and algebra trigonometry and calculus right through to infinity and chaos theory Mathematics introduces and explains the most important concepts in accessible non technical language *Supplemental Mathematics for the Curious* Bryan Dawson, 2009 **Calculus for the Curious** Kent Osband, 2020-05-12 Calculus offers some of the greatest problem solving methods ever discovered Anyone who understands basic algebra and geometry can learn it The main challenge is the triple D way calculus is usually taught dry dull and daunting Calculus for the Curious offers an alternative It is short only two hundred pages It is colorful and chock full of pictures It motivates all its concepts through interesting problems and offers the simplest derivation of every result It also links to dozens of activities on www.geogebra.org that offer vivid demonstrations of how calculus works Despite its brevity Calculus for the Curious covers all standard first year calculus topics and tackles a few challenges that go beyond Remarkably it does this without presuming any prior knowledge of standard precalculus Instead it introduces basic calculus concepts as useful tools for solving practical problems It then uses these tools to explain infinite series logarithms exponentials and trigonometric functions This simplifies a host of clutter Tired of memorizing a host of unrelated math facts

Tired of formulas with no visible connection to the wonders of our world Calculus for the Curious will help you restore your love of learning whether you are teaching yourself or preparing to teach others *Teaching Mathematics through Problem-Solving in K-12 Classrooms* Matthew Oldridge,2018-10-31 Teaching through problem solving is a commonly used phrase for mathematics educators This book shows how to use worthwhile and interesting mathematics tasks and problems to build a classroom culture based on students reasoning and thinking It develops a set of axioms about problem solving classrooms to show teachers that mathematics is playful and engaging It presents an aspirational vision for school mathematics one which all teachers can bring into being in their classrooms **Games and Mathematics** David G. Wells,2012-10-18 A unique book providing a tour through the fascinating connections between mathematics and games

Science and Maths for Curious Kids Lynn Huggins-Cooper,Laura Baker,2022-08 *Curves for the Mathematically Curious* Julian Havil,2019-10-15 The author has selected ten mathematical curves whose stories have more to them than is commonly known in addition some of them may be new to many readers even mathematically inclined readers **I Wish They'd Taught Me That** Robin Pemantle,Julian Joseph Gould,2025-11-26 I Wish They'd Taught Me That Overlooked and Omitted Topics in Mathematics concerns the topics which every undergraduate mathematics student should know but has probably never encountered These topics are not the ones which dominate every syllabus but those magnificent secrets that are beautiful useful and accessible but which are inexplicably hidden away from the mainstream curriculum Each chapter of this book concerns a different topic which students will almost certainly be unfamiliar with Written in a lively conversational style by the end of each section the reader should feel equipped with the knowledge to explore the area more fully elsewhere Features Topics from a variety of areas of mathematics including geometry logic analysis algebra numerical analysis and topology Numerous examples diagrams and exercises Collections of resources where an interested reader can learn more about each topic Nontechnical introductions to each chapter [The Penguin Book of Curious and Interesting Mathematics](#) David G. Wells,1997 Collection of miscellaneous facts and anecdotes from mathematicians **The Handbook of Mathematics Teacher Education: Volume 1** ,2008-01-01 The Handbook of Mathematics Teacher Education the first of its kind addresses the learning of mathematics teachers at all levels of schooling to teach mathematics and the provision of activity and programmes in which this learning can take place It consists of four volumes VOLUME 1 Knowledge and Beliefs in Mathematics Teaching and Teaching Development addresses the what of mathematics teacher education meaning knowledge for mathematics teaching and teaching development and consideration of associated beliefs As well as synthesizing research and practice over various dimensions of these issues it offers advice on best practice for teacher educators university decision makers and those involved in systemic policy development on teacher education [Curious George Math and Science Readers](#) Hans Augusto Rey,2018-04-14 Ten mini books that use engaging and funny stories about a curious monkey to introduce children to simple math and science concepts Introduces 50 essential sight words and includes

ten STEM activity cards designed to help children learn by making and doing *Second Handbook of Research on Mathematics Teaching and Learning* Frank K. Lester, 2007-02-01 The audience remains much the same as for the 1992 Handbook namely mathematics education researchers and other scholars conducting work in mathematics education This group includes college and university faculty graduate students investigators in research and development centers and staff members at federal state and local agencies that conduct and use research within the discipline of mathematics The intent of the authors of this volume is to provide useful perspectives as well as pertinent information for conducting investigations that are informed by previous work The Handbook should also be a useful textbook for graduate research seminars In addition to the audience mentioned above the present Handbook contains chapters that should be relevant to four other groups teacher educators curriculum developers state and national policy makers and test developers and others involved with assessment Taken as a whole the chapters reflect the mathematics education research community's willingness to accept the challenge of helping the public understand what mathematics education research is all about and what the relevance of their research findings might be for those outside their immediate community

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Table of Contents Mathematics For The Curious

1. Understanding the eBook Mathematics For The Curious
 - The Rise of Digital Reading Mathematics For The Curious
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics For The Curious
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematics For The Curious
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics For The Curious
 - Personalized Recommendations
 - Mathematics For The Curious User Reviews and Ratings
 - Mathematics For The Curious and Bestseller Lists
5. Accessing Mathematics For The Curious Free and Paid eBooks
 - Mathematics For The Curious Public Domain eBooks
 - Mathematics For The Curious eBook Subscription Services

- Mathematics For The Curious Budget-Friendly Options
- 6. Navigating Mathematics For The Curious eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics For The Curious Compatibility with Devices
 - Mathematics For The Curious Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics For The Curious
 - Highlighting and Note-Taking Mathematics For The Curious
 - Interactive Elements Mathematics For The Curious
- 8. Staying Engaged with Mathematics For The Curious
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics For The Curious
- 9. Balancing eBooks and Physical Books Mathematics For The Curious
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics For The Curious
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics For The Curious
 - Setting Reading Goals Mathematics For The Curious
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics For The Curious
 - Fact-Checking eBook Content of Mathematics For The Curious
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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