Mathematical Paradise

Getting to Know Triangular Numbers

Book One

Paul Chika Emekwulu

Award-Winning & International Bestselling Author

Mathematical Paradise Getting Triangular Numbers

Ad de Vries,Arthur de Vries

Mathematical Paradise Getting Triangular Numbers:

Mathematical Paradise Paul Chika Emekwulu,2015-12-16 The reader will find the following very interesting Summation strategies for first n Fibonacci numbers Using sigma notation for finding the sum of first n Fibonacci numbers Formula for finding the sum of odd subscripted Fibonacci numbers Formula for finding the sum of even subscripted Fibonacci numbers and much more Among others the book also contains Independent Trial Questions Solutions to Independent Trial Questions Of interest is the following Fibonacci problem If a b c d e are five consecutive Fibonacci numbers and a is odd subscripted then a and e are the roots of the equation x 2 3cx c 2 1 0   Mathematical Paradise Paul Chika Emekwulu,2016-03-31 This book was inspired by a dream I had on Tuesday March 30 1993 It was a dream on the subsets of Fibonacci numbers 1 1 2 3 5 8 13 21 x y x y that appeared as white flowers A continued independent study led me to invent a mathematical formula connecting triangular numbers 1 3 6 10 15 21 28 36 and numbers of the Fibonacci sequence The formula converts any three consecutive Fibonacci numbers a b c into a unique single triangular number See The Norman Transcript December 16 1993 The Black Chronicle July 13 1995 Edmond Evening Sun October 8 1995 Reviewer s Bookwatch February 2000 page 12 The Black Economic Times July 31 1997 Vol 1 Issue XII A Psychic Encounter with Fibonacci Numbers The Oklahoma Daily The Independent Student Voice of The University of Oklahoma Tuesday September 28 1999 Reviews Your book was a fascinating exploration into mathematics Stacey Weinard Formerly a math coordinator Oklahoma State Dept of Education Fibonacci numbers are numbers of an innocent looking sequence named after an Italian mathematician Filius Bonacci Getting to Know Fibonacci Numbers will intrigue students teachers researchers in the field of mathematics as well as those engaged in the research of artificial intelligence and computer science Author Paul Emekwulu presents a fascinating mathematical exploration that is challenging illuminating and original James Cox Midwest Book Review There are many important aspects of mathematics learning which are generally neglected in the math education exploration pattern recognition and formulation of conjectures This is how Paul Emekwulu presents the subject in this book Opher Liba Mathematics Educator Researcher Jerusalem The book will certainly appeal to teachers and researchers of mathematics Of great interest is the potential application of the contents of the book to the emerging research efforts in Artificial Intelligence AI Fibonacci search is presently one of the search techniques being explored for AI applications Any book that sheds more light on the unique properties of Fibonacci numbers should be of interest to AI practitioners and AI researchers Dr Adedeji Badiru Head of Department of Industrial Engineering Tennessee State University Tennessee Father Ray Ackerman gave me two of your books Getting to Know Triangular Numbers and Getting to Know Fibonacci Numbers I found both of these books very interesting especially the one about Fibonacci numbers In fact a math teacher graduate student or undergraduate student in an Abstract Algebra class would consider these texts as excellent reference books that have a lot of interesting material in them that most students do not ever get to see Paul Buckelew Oklahoma Center for Continuing Education University of

Oklahoma   **The Mathematical Traveler** Calvin C. Clawson,2013-11-11 As he persuasively argues the mathematical concepts that arose and flourished in the ancient world enabled the creation of architectural masterpieces as well as the establishment of vast trade networks   **The Mathematical Gazette** ,1922   The Dimensions of Paradise John Michell,2008-01-07 An in depth look at the role of number as a bridge between Heaven and Earth Reveals the numerical code by which the ancients maintained high standards of art and culture Sets out the alchemical formulas for the fusion of elements and the numerical origins of various sacred names and numbers Describes the rediscovery of knowledge associated with the Holy Grail through which the influence of the Heavenly Order is made active on Earth The priests of ancient Egypt preserved a geometrical canon a numerical code of harmonies and proportions that they applied to music art statecraft and all the institutions of their civilization Plato an initiate in the Egyptian mysteries said it was the instrument by which the ancients maintained high principled standards of civilization and culture over thousands of years In The Dimensions of Paradise John Michell describes the results of a lifetime s research demonstrating how the same numerical code underlies sacred structures from ancient times to the Christian era In the measurements of Stonehenge the foundation plan of Glastonbury Plato s ideal city and the Heavenly City of the New Jerusalem described in the vision of Saint John lie the science and cosmology on which the ancient world order was founded The central revelation of this book is a structure of geometry and number representing the essential order of the heavens and functioning as a map of paradise   **Primary Maths Teacher Resource Book 6** Dianne Carr,2011-09-30 Active Maths Teacher Resource 6 contains the teaching framework It describes a range of classroom activities and practice provides additional worksheets and is cross referenced to the student activity pages the Quality Teaching Framework and relevant cards in the Maths in a Box series   **Mathematics Before and After Pythagoras** Ravi P. Agarwal,2024-11-29 This book provides the reader with a comprehensive account of the contributions of Pythagoras to mathematics and philosophy using them as a starting point to compare pre Pythagorean accomplishments with the myriad mathematical developments that followed It begins with a thorough study of Pythagoreanism and the early Pythagoreans including the major events in Pythagoras life and the origins of the mystical significance attributed by Pythagoreans to natural numbers From Chapter 3 onward the book describes how mathematical thinking works and prepares the reader for the subsequent chapters which cover mathematical logic and proofs their application to the study of natural and prime numbers the investigation of Pythagorean triples figurative numbers and irrational numbers all interwoven with rich historical context Aimed at students and teachers at all levels this work is accessible to non mathematicians as well with the main prerequisite being an avid curiosity about some of the ideas and thinkers that helped to forge the mathematical world as we know it Early praises for Mathematics Before and After Pythagoras Your book is charming and fun to read It would be fine to be able to teach from it Steve Krantz USA your new book an obvious labor of love I can see that it will be an inspiration for young students Bruce Berndt USA It is an excellent

book and I am deeply grateful for sending it to me It is an extraordinary gift and I am so grateful for this Carlo Cattani Italy I am really impressed by the wealth of interesting material you have collected and presented Rainer Kress Germany

Mathematical Reviews ,2003 **The paradise of children: a complete manual for the kindergarten** Edward Wiebé,1879 **Leningrad Mathematical Olympiads (1961-1991)** Dmitri V Fomin,2025-01-24 This book covers thirty years of the Leningrad Mathematical Olympiad which was ostensibly the very first formally organized open official city level mathematical contest in the world Founded in 1934 by a group of dedicated Soviet mathematicians it played an outstanding and often underappreciated role in creating the Leningrad St Petersburg school of mathematics of the 20th century The book begins with the extensive introduction containing two prefaces one of them written specifically for this edition a large historical survey of the Leningrad Mathematical Olympiad a section describing the logistical side of the contest and a small chapter dedicated to the very first Mathematical Olympiad held in 1934 whose problems were recently found in the Soviet era library archives The main text contains approximately 1 100 highly original questions for students of grades 5 through 10 ages 11 12 through 17 18 offered at the two concluding rounds of the Leningrad City Mathematics Olympiads in the years of 1961 1991 Full solutions hints and answers are provided for all questions with very rare exceptions It also includes 120 additional questions offered at the various mathematical contests held in Leningrad over the same thirty year period on average their difficulty is somewhat higher than that of the regular Mathematical Olympiad problems Math in a Minute, Grade 3 Brighter Child,2014-02-03 Math in a Minute for grade 3 includes essential math skills such as multiplying and dividing within 100 solving problems using addition subtraction multiplication and division and understanding the place value system This 96 page workbook also includes writing and comparing fractions representing and interpreting data and much more Math in a Minute has fun math activities with pages separated by skill theme and completion time Activities range in complexity from 1 minute to 10 minutes depending on the grade level This allows children to gradually build their way up to more and more intense work The repetition gives children an opportunity to reinforce basic skills and concepts Beat the clock for fast paced math practice **Once Upon a Prime** Sarah Hart,2023-04-11 A New York Times Book Review Editors Choice Wide ranging and thoroughly winning Jordan Ellenberg The New York Times Book Review An absolute joy to read Steven Levitt New York Times bestselling author of Freakonomics For fans of Seven Brief Lessons in Physics an exploration of the many ways mathematics can transform our understanding of literature and vice versa by the first woman to hold England s oldest mathematical chair We often think of mathematics and literature as polar opposites But what if instead they were fundamentally linked In her clear insightful laugh out loud funny debut Once Upon a Prime Professor Sarah Hart shows us the myriad connections between math and literature and how understanding those connections can enhance our enjoyment of both Did you know for instance that Moby Dick is full of sophisticated geometry That James Joyce s stream of consciousness novels are deliberately checkered with mathematical references That George Eliot was obsessed

with statistics That Jurassic Park is undergirded by fractal patterns That Sir Arthur Conan Doyle and Chimamanda Ngozi Adichie wrote mathematician characters From sonnets to fairytales to experimental French literature Professor Hart shows how math and literature are complementary parts of the same quest to understand human life and our place in the universe As the first woman to hold England s oldest mathematical chair Professor Hart is the ideal tour guide taking us on an unforgettable journey through the books we thought we knew revealing new layers of beauty and wonder As she promises you re going to need a bigger bookcase *CRC Concise Encyclopedia of Mathematics* Eric W. Weisstein,2002-12-12 Upon publication the first edition of the CRCConcise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the d The New Annual Register ,1809 *The New Annual Register, Or General Repository of History, Politics, and Literature, for the Year ...* ,1809 **Smiles of the Baby Buddha** Hong-jun Yu,1999-01-01 Changbi Publishers The Vision Dante Alighieri,1881 Life's Ratchet Peter M Hoffmann,2012-10-30 Life is an enduring mystery Yet science tells us that living beings are merely sophisticated structures of lifeless molecules If this view is correct where do the seemingly purposeful motions of cells and organisms originate In Life s Ratchet physicist Peter M Hoffmann locates the answer to this age old question at the nanoscale Below the calm ordered exterior of a living organism lies microscopic chaos or what Hoffmann calls the molecular storm specialized molecules immersed in a whirlwind of colliding water molecules Our cells are filled with molecular machines which like tiny ratchets transform random motion into ordered activity and create the purpose that is the hallmark of life Tiny electrical motors turn electrical voltage into motion nanoscale factories custom build other molecular machines and mechanical machines twist untwist separate and package strands of DNA The cell is like a city an unfathomable complex collection of molecular workers working together to create something greater than themselves Life Hoffman argues emerges from the random motions of atoms filtered through these sophisticated structures of our evolved machinery We are agglomerations of interacting nanoscale machines more amazing than anything in science fiction Rather than relying on some mysterious life force to drive them as people believed for centuries life s ratchets harness instead the second law of thermodynamics and the disorder of the molecular storm Grounded in Hoffmann s own cutting edge research Life s Ratchet reveals the incredible findings of modern nanotechnology to tell the story of how the noisy world of atoms gives rise to life itself *Elsevier's Dictionary of Symbols and Imagery* Ad de Vries,Arthur de Vries,2021-10-25 This dictionary supplies associations which have been evoked by plants animals gems objects and concepts throughout the history of Western civilization from the hieroglyphs of ancient Egypt to the poetry of Dylan Thomas It supplies background information from fields which may not be everyone s speciality such as biology and mythology It gives not one but several meanings which may apply simultaneously since indefiniteness is the mark of symbols No fine distinction is made between symbols allegories metaphors signs types or images since such

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web the daughter cells are clones of each other every base pair of their is identical the stages of the cell cycle are the stages of mitosis are prophase metaphase anaphase

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web specifically compare the chromosomes in cells at the end of mitosis vs the end of meiosis i recognizing that the diagram of mitosis tracks just a single pair of homologous chromosomes whereas the diagram of meiosis tracks two pairs of homologous chromosomes one long chromosome and short chromosome

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web prophase prometaphase the cell prepares for mitosis at this stage the chromosomes are not clearly visible the chromosomes pairs of sister chromatids condense and become visible meanwhile the nucleolus and nuclear envelope disappear the centrioles begin moving to opposite ends of the cell and start forming the mitotic spindle metaphase

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what phase what are sister chromatids

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