

Richard J. Gillings
**MATHEMATICS
IN THE TIME OF
THE PHARAOHS**



Mathematics In The Time Of The Pharaohs

Karin Nielsen-Saines



Mathematics In The Time Of The Pharaohs:

Mathematics in the Time of the Pharaohs Richard J. Gillings, 1982-01-01 In this carefully researched study the author examines Egyptian mathematics demonstrating that although operations were limited in number they were remarkably adaptable to a great many applications solution of problems in direct and inverse proportion linear equations of the first degree and arithmetical and geometrical progressions

Mathematics in the Time of the Pharaohs Richard J. Gillings, 1972 In writing the first book length study of ancient Egyptian mathematics Richard Gillings presents evidence that Egyptian achievements in this area are much more substantial than has been previously thought He does so in a way that will interest not only historians of Egypt and of mathematics but also people who simply like to manipulate numbers in novel ways He examines all the extant sources with particular attention to the most extensive of these the Rhind Mathematical Papyrus a collection of training exercises for scribes This papyrus besides dealing with the practical commercial computations for which the Egyptians developed their mathematics also includes a series of abstract numerical problems stated in a more general fashion The mathematical operations used were extremely limited in number but were adaptable to a great many applications The Egyptian number system was decimal with digits sequentially arranged much like our own but reading right to left allowing them to add and subtract with ease They could multiply any number by two and to accomplish more extended multiplications made use of a binary process successively multiplying results by two and adding those partial products that led to the correct result Division was done in a similar way They could fully manipulate fractions even though all of them with one exception were expressed in the unwieldy form of sumes of unit fractions those having 1 as their numerator The exception was $\frac{2}{3}$ The scribes recognized this as a very special quantity and took $\frac{2}{3}$ of integral or fractional numbers whenever the change presented itself in the course of computation In expressing a rational quantity as a series of unit fractions the scribes were generally able to choose a simple and direct solution from among the many sometimes thousands that are possible Doing this without modern computers would seem quite as remarkable as building pyramids without modern machinery The range of mathematical problems that were solved using these limited operational means is far wider than many historians of mathematics acknowledge Gillings gives examples showing that the Egyptians were able for example to solve problems in direct and inverse proportion to evaluate certain square roots to introduce the concept of a harmonic mean between two numbers to solve linear equations of the first degree and two simultaneous equations one of the second degree to find the sum of terms of arithmetic and geometric progressions to calculate the area of a circle and of cylindrical possibly even spherical surfaces to calculate the volumes of truncated pyramids and cylindrical granaries and to make use of rudimentary trigonometric functions in describing the slopes of pyramids The Egyptian accomplishment that historians have tended to repeat uncritically one after another is one that Gillings can find no evidence to support that the Egyptians knew the Pythagorean theorem at least in the special case of the 3 4 5 right triangle

Ethnomathematics Arthur

B. Powell, Marilyn Frankenstein, 1997-04-17 Presents the emerging field of ethnomathematics from a critical perspective challenging particular ways in which Eurocentrism permeates mathematics education and mathematics in general

African Mathematics Abdul Karim Bangura, 2012 This is the first comprehensive text on African Mathematics that can be used to address some of the problematic issues in this area These issues include attitudes curriculum development educational change academic achievement standardized and other tests performance factors student characteristics cross cultural differences and studies literacy native speakers social class and differences equal education teaching methods knowledge level educational guidelines and policies transitional schools comparative education other subjects such as physics and social studies surveys talent educational research teacher education and qualifications academic standards teacher effectiveness lesson plans and modules teacher characteristics instructional materials program effectiveness program evaluation African culture African history Black studies class activities educational games number systems cognitive ability foreign influence and fundamental concepts What unifies the chapters in this book can appear rather banal but many mathematical insights are so obvious and so fundamental that they are difficult to absorb appreciate and express with fresh clarity Some of the more basic insights are isolated by accounts of investigators who have earned their contemporaries respect Winner of the 2012 Cecil B Currey Book Award *Thales of Miletus* Patricia F. O'Grady, 2017-03-02 What is the basic building block of the universe Thales of Miletus was the first to ask this fundamental yet to be answered question in the sixth century B C This book offers an in depth account of the answers he gave and of his adventure into many areas of learning philosophy science mathematics and astronomy Thales proved that the events of nature were comprehensible to man and could be explained without the intervention of mythological beings Henceforth they became subject to investigation experiment questioning and discussion Presenting for the first time in the English language a comprehensive study of Thales of Miletus Patricia O Grady brings Thales out of pre Socratic shadows into historical illumination and explores why this historical figure has proved to be of lasting significance *The Babylonian Theorem* Peter S. Rudman, 2010-01-26 Rudman explores the fascinating history of mathematics among the Babylonians and Egyptians He formulates a Babylonian Theorem which he shows was used to derive the Pythagorean Theorem about a millennium before its purported discovery by Pythagoras Down to the Hour: Short Time in the Ancient Mediterranean and Near East, 2019-12-02 Clock time with all its benefits and anxieties is often viewed as a modern phenomenon but ancient Mediterranean and Near Eastern cultures also had tools for marking and measuring time within the day and wrestled with challenges of daily time management This book brings together for the first time perspectives on the interplay between short term timekeeping technologies and their social contexts in ancient Egypt Babylon Greece and Rome Its contributions denaturalize modern day concepts of clocks hours and temporal frameworks describe some of the timekeeping solutions used in antiquity and illuminate the diverse factors that affected how individuals and communities structured their time **Ancient Egypt** Barry J. Kemp, 2018-06-12

This fully revised and updated third edition of the bestselling Ancient Egypt seeks to identify what gave ancient Egypt its distinctive and enduring characteristics ranging across material culture the mindset of its people and social and economic factors In this volume Barry J Kemp identifies the ideas by which the Egyptians organized their experience of the world and explains how they maintained a uniform style in their art and architecture across three thousand years whilst accommodating substantial changes in outlook The underlying aim is to relate ancient Egypt to the broader mainstream of our understanding of how all human societies function Source material is taken from ancient written documents while the book also highlights the contribution that archaeology makes to our understanding of Egyptian culture and society It uses numerous case studies illustrating them with artwork expressly prepared from specialist sources Broad ranging yet impressively detailed the book is an indispensable text for all students of ancient Egypt and for the general reader

Companion Encyclopedia of the History and Philosophy of the Mathematical Sciences Ivor Grattan-Guinness, 2004-11-11 First published in 2004

Routledge is an imprint of Taylor Francis an informa company Companion Encyclopedia of the History and Philosophy of the Mathematical Sciences Ivor Grattan-Guinness, 2002-09-11 Examines the history and philosophy of the mathematical sciences in a cultural context tracing their evolution from ancient times up to the twentieth century 176 articles contributed by authors of 18 nationalities Chronological table of main events in the development of mathematics Fully integrated index of people events and topics Annotated bibliographies of both classic and contemporary sources Unique coverage of Ancient and non Western traditions of mathematics Ancient Egyptian Science Marshall Clagett, 1989 The volume gives a discourse on the nature and accomplishments of Egyptian mathematics The author quotes and discusses interpretations of such authors as Eisenlohr Griffith Hultsch Peet Struce Neugebauer Chace Glanville van der Waerden Bruins Gillings and others Mathematics

Reader's Guide to the History of Science Arne Hessenbruch, 2013-12-16 The Reader's Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn Elliptic Curves and Their Applications to Cryptography Andreas Enge, 2012-12-06 Since their invention in the late seventies public key cryptosystems have become an indispensable asset in establishing private and secure electronic communication and this need given the tremendous growth of the Internet is likely to continue growing Elliptic curve cryptosystems represent the state of the art for such systems Elliptic Curves and Their Applications to Cryptography An Introduction provides a comprehensive and self contained introduction to elliptic curves and how they are employed to secure public key cryptosystems Even though the elegant mathematical theory underlying cryptosystems is considerably more involved than for other systems this text requires the reader to have only an elementary knowledge of basic algebra The text nevertheless leads to problems at the forefront of current research featuring chapters on point

counting algorithms and security issues The Adopted unifying approach treats with equal care elliptic curves over fields of even characteristic which are especially suited for hardware implementations and curves over fields of odd characteristic which have traditionally received more attention Elliptic Curves and Their Applications An Introduction has been used successfully for teaching advanced undergraduate courses It will be of greatest interest to mathematicians computer scientists and engineers who are curious about elliptic curve cryptography in practice without losing the beauty of the underlying mathematics

Crisis Sascha Bru,Kate Kangaslahti,Li Lin,Iveta Slavkova,David Ayers,2022-09-06 Notions of crisis have long charged the study of the European avant garde and modernism reflecting the often turbulent nature of their development Throughout their history the avant garde and modernists have both confronted and instigated crises be they economic or political aesthetic or philosophical collective or individual local or global short or perennial The seventh volume in the series European Avant Garde and Modernism Studies addresses the myriad ways in which the avant garde and modernism have responded and related to crisis from the late nineteenth to the twenty first century How have Europe s avant garde and modernist movements given aesthetic shape to their crisis laden trajectory Given the many different watershed moments the avant garde and modernism have faced over the centuries what common threads link the critical points of their development Alternatively what kinds of crises have their experimental practices and critical modes yielded The volume assembles case studies reflecting upon these questions and more from across all areas of avant garde and modernist activity including visual art literature music architecture photography theatre performance curatorial practice fashion and design

The Puzzle Instinct Marcel Danesi,2004-02-20 Humans are the only animals who create and solve puzzles for the sheer pleasure of it and there is no obvious genetic reason why we would do this Marcel Danesi explores the psychology of puzzles and puzzling with scores of classic examples His pioneering book is both entertaining and enlightening Will Shortz Crossword Editor The New York Times Puzzle fanatics will enjoy the many riddles illusions cryptograms and other mind benders offered for analysis Psychology Today a bristlingly clear always intriguing survey of the history and rationale of puzzles A splendid study Knight Ridder Newspapers

A History of Computing Technology Michael R. Williams,1997-04-10 This second edition of the popular reference and textbook outlines the historical developments in computing technology The book describes historical aspects of calculation and concentrates on the physical devices used to aid people in their attempts at automating the arithmetic process A History of Computing Technology highlights the major advances in arithmetic from the beginning of counting through the three most important developments in the subject the invention of the zero logarithms and the electronic computer It provides you with an understanding of how these ideas developed and why the latest tools are in their current forms In addition it tells many of the interesting stories about both the machines and the scientists who produced them It focuses on the extraordinary accomplishments of those computer pioneers whose work will stand as proof of their genius and hard work

Mathematics Douglas M. Campbell,John C. Higgins,1984

Based upon the principle that graph design should be a science this book presents the principles of graph construction The orientation of the material is toward graphs in technical writings such as journal articles and technical reports But much of the material is relevant for graphs shown in talks and for graphs in nontechnical publications from back cover **Book Review Digest** ,1973 Excerpts from and citations to reviews of more than 8 000 books each year drawn from coverage of 109 publications Book Review Digest provides citations to and excerpts of reviews of current juvenile and adult fiction and nonfiction in the English language Reviews of the following types of books are excluded government publications textbooks and technical books in the sciences and law Reviews of books on science for the general reader however are included The reviews originate in a group of selected periodicals in the humanities social sciences and general science published in the United States Canada and Great Britain Publisher **History in Black** Yaacov Shavit,2013-11-12 The development of Afrocentric historical writing is explored in this study which traces this recording of history from the Hellenistic Roman period to the 19th century Afrocentric writers are depicted as searching for the unique primary source of culture from one period to the next Such passing on of cultural traits from the ancient model from the classical period to the origin of culture in Egypt and Africa is shown as being a product purely of creative history *The Changing Shape of Geometry* Mathematical Association of America,2003-01-09 Collection of popular articles on geometry from distinguished mathematicians and educationalists

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