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***History Of
Mathematics
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Islam To***

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This is a cultural history of mathematics and art, from antiquity to the present. Mathematicians and artists have long been on a quest to understand the physical world they see before them and the abstract

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objects they know by thought alone. Taking readers on a tour of the practice of mathematics and the philosophical ideas that drive the discipline, Lynn Gamwell points out the important ways mathematical concepts have been expressed by artists. Sumptuous

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illustrations of artworks and cogent math diagrams are featured in Gamwell's comprehensive exploration. Gamwell begins by describing mathematics from antiquity to the Enlightenment, including Greek, Islamic, and Asian mathematics. Then focusing on

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modern culture, Gamwell traces mathematicians' search for the foundations of their science, such as David Hilbert's conception of mathematics as an arrangement of meaning-free signs, as well as artists' search for the essence of their craft, such as Aleksandr

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Rodchenko's monochrome paintings. She shows that self-reflection is inherent to the practice of both modern mathematics and art, and that this introspection points to a deep resonance between the two fields: Kurt Gödel posed questions about the nature

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of mathematics in the language of mathematics and Jasper Johns asked “What is art?” in the vocabulary of art. Throughout, Gamwell describes the personalities and cultural environments of a multitude of mathematicians and artists, from

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**Gottlob Frege and Benoît
Mandelbrot to Max Bill and Xu Bing.
Mathematics and Art demonstrates
how mathematical ideas are
embodied in the visual arts and will
enlighten all who are interested in
the complex intellectual pursuits,
personalities, and cultural settings**

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**that connect these vast disciplines.
Praise for the Second Edition "An
amazing assemblage of worldwide
contributions in mathematics and,
in addition to use as a course book,
a valuable resource . . . essential."
—CHOICE This Third Edition of The
History of Mathematics examines**

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the elementary arithmetic, geometry, and algebra of numerous cultures, tracing their usage from Mesopotamia, Egypt, Greece, India, China, and Japan all the way to Europe during the Medieval and Renaissance periods where calculus was developed. Aimed

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primarily at undergraduate students studying the history of mathematics for science, engineering, and secondary education, the book focuses on three main ideas: the facts of who, what, when, and where major advances in mathematics took

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place; the type of mathematics involved at the time; and the integration of this information into a coherent picture of the development of mathematics. In addition, the book features carefully designed problems that guide readers to a fuller

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understanding of the relevant mathematics and its social and historical context. Chapter-end exercises, numerous photographs, and a listing of related websites are also included for readers who wish to pursue a specialized topic in more depth. Additional features of

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The History of Mathematics, Third Edition include: Material arranged in a chronological and cultural context Specific parts of the history of mathematics presented as individual lessons New and revised exercises ranging between technical, factual, and integrative

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Individual PowerPoint presentations for each chapter and a bank of homework and test questions (in addition to the exercises in the book) An emphasis on geography, culture, and mathematics In addition to being an ideal coursebook for

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undergraduate students, the book also serves as a fascinating reference for mathematically inclined individuals who are interested in learning about the history of mathematics.

An exploration of the life and work of the thirteenth-century

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mathematician Ch'in, this fascinating book examines a range of mathematical issues that reflect Chinese life of a millennium ago. Its first part consists of four closely related studies of Ch'in and his work. The first study brings together what is known of the

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mathematician's life and of the history of his only extant work, the Shu-shu chiu-chang. Subsequent studies examine the entire range of mathematical techniques and problems found within Ch'in's book. The core of this book consists of an in-depth study of

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what modern mathematicians still refer to as the Chinese remainder theorem for the solution of indeterminate equations of the first degree. This was Ch'in's most original contribution to mathematics--so original that no one could correctly explain Ch'in's

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procedure until the early nineteenth century. This volume's concluding study unites information on artisanal, economic, administrative, and military affairs dispersed throughout Ch'in's writings, providing rare insights into thirteenth-century China.

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Discover essays by leading scholars on the history of mathematics from ancient to modern times in European and non-European cultures.

**Writing the History of Mathematics:
Its Historical Development
Learning Activities from the History**

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of Mathematics

**From Constantine to Saint Louis
Between Geometry and Arithmetic**

Big Ideas Simply Explained

**Anachronisms in the History of
Mathematics**

**Emblazoned on many
advertisements for the wildly**

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popular game of Sudoku are the reassuring words, "no mathematical knowledge required." Anxiety about math plagues many of us, and school memories can still summon intense loathing. In A Brief

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History of Mathematical Thought, Luke Heaton shows that much of what many think-and fear-about mathematics is misplaced, and to overcome our insecurities we need to understand its history. To help,

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**he offers a lively guide into
and through the world of
mathematics and
mathematicians, one in which
patterns and arguments are
traced through logic in a
language grounded in concrete**

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**experience. Heaton reveals
how Greek and Roman
mathematicians like
Pythagoras, Euclid, and
Archimedes helped shaped the
early logic of mathematics;
how the Fibonacci sequence,**

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the rise of algebra, and the invention of calculus are connected; how clocks, coordinates, and logical padlocks work mathematically; and how, in the twentieth century, Alan Turing's

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**revolutionary work on the
concept of computation laid
the groundwork for the
modern world. A Brief History
of Mathematical Thought
situates mathematics as part
of, and essential to, lived**

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experience. Understanding it requires not abstract thought or numbing memorization but an historical imagination and a view to its origins. --

The Book of Squares by Fibonacci is a gem in the

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**mathematical literature and
one of the most important
mathematical treatises written
in the Middle Ages. It is a
collection of theorems on
indeterminate analysis and
equations of second degree**

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which yield, among other results, a solution to a problem proposed by Master John of Palermo to Leonardo at the Court of Frederick II. The book was dedicated and presented to the Emperor at Pisa in 1225.

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Dating back to the 13th century the book exhibits the early and continued fascination of men with our number system and the relationship among numbers with special properties such as

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**prime numbers, squares, and
odd numbers. The faithful
translation into modern
English and the commentary
by the translator make this
book accessible to professional
mathematicians and amateurs**

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**who have always been
intrigued by the lure of our
number system.
This volume examines how the
history of mathematics can
find application in the
teaching of mathematics itself.**

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This volume complements the previous collection of articles by Menso Folkerts, Essays on Early Medieval Mathematics. It deals with the development of mathematics in Europe from the 12th century to about

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1500.

**Ancient & Medieval Traditions
in the Exact Sciences**

**History of Mathematics in
Africa: 2000-2011**

**Encyclopaedia of the History of
Science, Technology, and**

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Medicine in Non-Western Cultures

A History of Mathematics Distributivity-like Results in the Medieval Traditions of Euclid's Elements

R.C. Davis provided the classic account

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of the European medieval world; equipping generations of undergraduate and 'A' level students with sufficient grasp of the period to debate diverse historical perspectives and reputations. His book has been important grounding for both modernists required to take a course in medieval history, and those

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who seek to specialise in the medieval period. In updating this classic work to a third edition, the additional author now enables students to see history in action; the diverse viewpoints and important research that has been undertaken since Davis' second edition, and progressed historical understanding. Each of Davis

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original chapters now concludes with a 'new directions and developments' section by Professor RI Moore, Emeritus of Newcastle University. A key work updated in a method that both enhances subject understanding and sets important research in its wider context. A vital resource, now up-to-date for generations

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of historians to come.

International experts introduce and explore the history of mathematics in medieval Ireland - its reception, philosophy and the contribution made by Irish scholars to the development of science in Ireland and Western Europe. This collection presents significant

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contributions from an international network project on mathematical cultures, including essays from leading scholars in the history and philosophy of mathematics and mathematics education. Mathematics has universal standards of validity. Nevertheless, there are local styles in mathematical research

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and teaching, and great variation in the place of mathematics in the larger cultures that mathematical practitioners belong to. The reflections on mathematical cultures collected in this book are of interest to mathematicians, philosophers, historians, sociologists, cognitive scientists and mathematics

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educators.

This book provides a fresh view on an important and largely overlooked aspect of the Euclidean traditions in the medieval mathematical texts, particularly concerning the interrelations between geometry and arithmetic, and the rise of algebraic modes of thought. It appeals to

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anyone interested in the history of
mathematics in general and in history of
medieval and early modern science.

A Passage to Infinity

An International Perspective

A Cultural History

The Man of Numbers

History of Mathematics

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Medieval Indian Mathematics from
Kerala and Its Impact

As an historiographic monograph,
this book offers a detailed survey
of the professional evolution and
significance of an entire discipline
devoted to the history of science.
It provides both an intellectual and

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a social history of the development of the subject from the first such effort written by the ancient Greek author Eudemus in the Fourth Century BC, to the founding of the international journal, *Historia Mathematica*, by Kenneth O. May in the early 1970s.

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The Encyclopaedia fills a gap in both the history of science and in cultural studies. Reference works on other cultures tend either to omit science completely or pay little attention to it, and those on the history of science almost always start with the Greeks, with

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perhaps a mention of the Islamic world as a translator of Greek scientific works. The purpose of the Encyclopaedia is to bring together knowledge of many disparate fields in one place and to legitimize the study of other cultures' science. Our aim is not to

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claim the superiority of other cultures, but to engage in a mutual exchange of ideas. The Western academic divisions of science, technology, and medicine have been united in the Encyclopaedia because in ancient cultures these disciplines were connected. This

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work contributes to redressing the balance in the number of reference works devoted to the study of Western science, and encourages awareness of cultural diversity. The Encyclopaedia is the first compilation of this sort, and it is testimony both to the earlier

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Eurocentric view of academia as well as to the widened vision of today. There is nothing that crosses disciplinary and geographic boundaries, dealing with both scientific and philosophical issues, to the extent that this work does. xi PERSONAL

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NOTE FROM THE EDITOR Many years ago I taught African history at a secondary school in Central Africa.

The oldest known mathematical table was found in the ancient Sumerian city of Shuruppag in southern Iraq. Since then, tables

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have been an important feature of mathematical activity; table making and printed tabular matter are important precursors to modern computing and information processing. This book contains a series of articles summarising the technical, institutional and

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intellectual history of mathematical tables from earliest times until the late twentieth century. It covers mathematical tables (the most important computing aid for several hundred years until the 1960s), data tables (eg. Census tables), professional tables (eg.

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insurance tables), and
spreadsheets - the most recent
tabular innovation. The book is
presented in a scholarly yet
accessible way, making
appropriate use of text boxes and
illustrations. Each chapter has a
frontispiece featuring a table along

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with a small illustration of the source where the table was first displayed. Most chapters have sidebars telling a short "story" or history relating to the chapter. The aim of this edited volume is to capture the history of tables through eleven chapters written by

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subject specialists. The contributors describe the various information processing techniques and artefacts whose unifying concept is "the mathematical table".

Mathematics is a fundamental human activity that can be

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practised and understood in a multitude of ways; indeed, mathematical ideas themselves are far from being fixed, but are adapted and changed by their passage across periods and cultures. In this Very Short Introduction, Jacqueline Stedall

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explores the rich historical and cultural diversity of mathematical endeavour from the distant past to the present day. Arranged thematically, to exemplify the varied contexts in which people have learned, used, and handed on mathematics, she also includes

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illustrative case studies drawn from a range of times and places, including early imperial China, the medieval Islamic world, and nineteenth-century Britain.

ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains

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hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly.

Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics

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highly readable.

Its Sources, Meaning, and
Influence on Thought and
Expression

Classics in the History of Greek
Mathematics

An Introduction

Math through the Ages: A Gentle

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History for Teachers and Others
Expanded Second Edition

A Brief History of Numbers

The History of Mathematics: A
Very Short Introduction

The History of Mathematics: A Source-
Based Approach is a comprehensive
history of the development of

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mathematics. This, the first volume of the two-volume set, takes readers from the beginning of counting in prehistory to 1600 and the threshold of the discovery of calculus. It is notable for the extensive engagement with original—primary and

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secondary—source material. The coverage is worldwide, and embraces developments, including education, in Egypt, Mesopotamia, Greece, China, India, the Islamic world and Europe. The emphasis on astronomy and its historical relationship to mathematics is

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new, and the presentation of every topic is informed by the most recent scholarship in the field. The two-volume set was designed as a textbook for the authors' acclaimed year-long course at the Open University. It is, in addition to being an innovative and

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insightful textbook, an invaluable resource for students and scholars of the history of mathematics. The authors, each among the most distinguished mathematical historians in the world, have produced over fifty books and earned scholarly and

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expository prizes from the major mathematical societies of the English-speaking world.

Biographies of 23 important mathematicians span many centuries and cultures. Historical Learning Tasks provide 21 in-depth treatments of a

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variety of historical problems.

Within this two-volume edition, Professor Smith covers the entire history of mathematics in the Near and Far East and the West, from primitive number concepts to the calculus. His account is distinguished by impeccable

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scholarship combined with unusual clarity and readability. Footnotes add many technical points outside the book's actual line of development and direct the reader to disputed matters and source readings. Hundreds of illustrations from Egyptian papyri,

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Hindu, Chinese, and Japanese manuscripts, Greek and Roman texts, Medieval treatises, maps, portraits, etc. are used along with modern graphs and diagrams. Every major figure from Euclid to Descartes, Gauss, and Riemann and hundreds of lesser-known

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figures — Theon of Smyrna, Rabbi ben Ezra, Radulph of Laon, Mersenns, Benedetti, and more — are considered both with respect to specific problems and with an awareness of their overall influence on mathematics. Volume II: Special Topics, considering

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mathematics in terms of arithmetic geometry, algebra, trig, calculus, calculating machines, and other specific fields and problems. 192 Topics for Discussion. 195 illustrations. Index. The story of the medieval genius whose 1202 book changed the course of

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mathematics in the West and helped
bring on the modern era.

Fibonacci's Arithmetic Revolution

Chinese Mathematics in the Thirteenth
Century

The History of Mathematical Tables

A History of Medieval Europe

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The London Meetings 2012-2014

Mathematical Cultures

Fluent description of the development of both the integral and differential calculus — its early beginnings in antiquity, medieval contributions, and a consideration of Newton and Leibniz.

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In recent decades it has become obvious that mathematics has always been a worldwide activity. But this is the first book to provide a substantial collection of English translations of key mathematical texts from the five most important ancient and medieval non-

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Western mathematical cultures, and to put them into full historical and mathematical context. The Mathematics of Egypt, Mesopotamia, China, India, and Islam gives English readers a firsthand understanding and appreciation of these cultures'

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important contributions to world mathematics. The five section authors--Annette Imhausen (Egypt), Eleanor Robson (Mesopotamia), Joseph Dauben (China), Kim Plofker (India), and J. Lennart Berggren (Islam)--are experts in their fields.

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Each author has selected key texts and in many cases provided new translations. The authors have also written substantial section introductions that give an overview of each mathematical culture and explanatory notes that put each

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selection into context. This authoritative commentary allows readers to understand the sometimes unfamiliar mathematics of these civilizations and the purpose and significance of each text. Addressing a critical gap in the mathematics

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literature in English, this book is an essential resource for anyone with at least an undergraduate degree in mathematics who wants to learn about non-Western mathematical developments and how they helped shape and enrich world mathematics.

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The book is also an indispensable guide for mathematics teachers who want to use non-Western mathematical ideas in the classroom.

The twentieth century is the period during which the history of Greek mathematics reached its greatest acme

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Indeed, it is by no means exaggerated to say that Greek mathematics represents the unique field from the wider domain of the general history of science which was included in the research agenda of so many and so distinguished scholars, from so varied

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scientific communities (historians of science, historians of philosophy, mathematicians, philologists, philosophers of science, archeologists etc.), while new scholarship of the highest quality continues to be produced. This volume includes 19

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classic papers on the history of Greek mathematics that were published during the entire 20th century and affected significantly the state of the art of this field. It is divided into six self-contained sections, each one with its own editor, who had the responsibility

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for the selection of the papers that are republished in the section, and who wrote the introduction of the section. It constitutes a kind of a Reader book which is today, one century after the first publications of Tannery, Zeuthen, Heath and the other outstanding

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figures of the end of the 19th and the beginning of 20th century, rather timely in many respects.

In this classic study, a noted scholar reveals "how deeply rooted in medieval thought was the consciousness of numbers, not as mathematical tools,

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nor yet as the counters in a game, but as fundamental realities, alive with memories and eloquent with meaning."

The Book of Squares

Mathematics in Medieval Ireland

Fibonacci's Liber Abaci

The Development of Mathematics in

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Medieval Europe

Leonardo Pisano (Fibonacci)

The Mathematics of Egypt,

Mesopotamia, China, India, and Islam

***The world around us is
saturated with numbers.
They are a fundamental***

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pillar of our modern society, and accepted and used with hardly a second thought. But how did this state of affairs come to be? In this book, Leo Corry tells the story behind the idea of

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number from the early days of the Pythagoreans, up until the turn of the twentieth century. He presents an overview of how numbers were handled and conceived in classical Greek

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***mathematics, in the
mathematics of Islam, in
European mathematics of
the middle ages and the
Renaissance, during the
scientific revolution, all the
way through to the***

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***mathematics of the 18th to
the early 20th century.
Focusing on both
foundational debates and
practical use numbers, and
showing how the story of
numbers is intimately***

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linked to that of the idea of equation, this book provides a valuable insight to numbers for undergraduate students, teachers, engineers, professional

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***mathematicians, and
anyone with an interest in
the history of mathematics.
Medieval Europe was a
meeting place for the
Christian, Jewish, and
Islamic civilizations, and***

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the fertile intellectual exchange of these cultures can be seen in the mathematical developments of the time. This sourcebook presents original Latin, Hebrew, and

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Arabic sources of medieval mathematics, and shows their cross-cultural influences. Most of the Hebrew and Arabic sources appear here in translation for the first time. Readers

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***will discover key
mathematical revelations,
foundational texts, and
sophisticated writings by
Latin, Hebrew, and Arabic-
speaking mathematicians,
including Abner of Burgos's***

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elegant arguments proving results on the conchoid—a curve previously unknown in medieval Europe; Levi ben Gershon's use of mathematical induction in combinatorial proofs; Al-

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***Mu'taman Ibn Hūd's
extensive survey of
mathematics, which
included proofs of Heron's
Theorem and Ceva's
Theorem; and Muhyī al-Dīn
al-Maghribī's interesting***

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***proof of Euclid's parallel
postulate. The book
includes a general
introduction, section
introductions, footnotes,
and references. The
Sourcebook in the***

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Mathematics of Medieval Europe and North Africa will be indispensable to anyone seeking out the important historical sources of premodern mathematics.

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The interaction of the history of mathematics and mathematics education has long been construed as an esoteric area of inquiry. Much of the research done in this realm has been

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***under the auspices of the
history and pedagogy of
mathematics group.
However there is little
systematization or
consolidation of the
existing literature aimed at***

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***undergraduate
mathematics education,
particularly in the teaching
and learning of the history
of mathematics and other
undergraduate topics. In
this monograph, the***

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chapters cover topics such as the development of Calculus through the actuarial sciences and map making, logarithms, the people and practices behind real world mathematics,

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***and fruitful ways in which
the history of mathematics
informs mathematics
education. The book is
meant to serve as a source
of enrichment for
undergraduate***

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***mathematics majors and for
mathematics education
courses aimed at teachers.
Where did math come
from? Who thought up all
those algebra symbols, and
why? What is the story***

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***behind π π ? ... negative
numbers? ... the metric
system? ... quadratic
equations? ... sine and
cosine? ... logs? The 30
independent historical
sketches in Math through***

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the Ages answer these questions and many others in an informal, easygoing style that is accessible to teachers, students, and anyone who is curious about the history of

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mathematical ideas. Each sketch includes Questions and Projects to help you learn more about its topic and to see how the main ideas fit into the bigger picture of history. The 30

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***short stories are preceded
by a 58-page bird's-eye
overview of the entire
panorama of mathematical
history, a whirlwind tour of
the most important people,
events, and trends that***

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shaped the mathematics we know today. "What to Read Next" and reading suggestions after each sketch provide starting points for readers who want to learn more. This book is

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ideal for a broad spectrum of audiences, including students in history of mathematics courses at the late high school or early college level, pre-service and in-service teachers, and

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***anyone who just wants to
know a little more about
the origins of mathematics.***

A Brief Course

Music and the Stars

The History of

Mathematics: A Source-

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***Based Approach: Volume 1
The History of the Calculus
and Its Conceptual
Development
Essays in Memory of Wilbur
Knorr
History of Mathematics in***

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Africa: 1986-1999

See how maths' infinite mysteries and beauty unfold in this captivating educational book! Discover more than 85 of the most important mathematical ideas, theorems, and proofs ever devised with this beautifully illustrated book. Get to know the great minds

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whose revolutionary discoveries changed our world today. You don't have to be a maths genius to follow along with this book! This brilliant book is packed with short, easy-to-grasp explanations, step-by-step diagrams, and witty illustrations that play with our ideas about numbers. What is an

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imaginary number? Can two parallel lines ever meet? How can maths help us predict the future? All will be revealed and explained in this encyclopedia of mathematics. It's as easy as 1, 2, and 3! The Maths Book tells the exciting story of how mathematical thought advanced through history. This diverse and

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inclusive account will have something for everybody, including the maths behind world economies and espionage. This book charts the development of maths around the world. From ancient mathematical ideas and inventions, such as prehistoric tally bones through to the developments in mathematics

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during medieval and Renaissance Europe. Fast forward to today and gain insight into the recent rise of game and group theory. Delve in deeper into the history of maths: - Ancient and Classical Periods 6000 BCE - 500 CE - The Middle Ages 500 - 1500 - The Renaissance 1500 - 1680 - The

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Century 1800 - 1900 - Modern
Mathematics 1900 - Present The Series
Simply Explained With over 7 million
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Maths Book is part of the award-
winning Big Ideas series from DK
Books. It uses innovative graphics along**

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with engaging writing to make complex subjects easier to understand.

This book presents an account of selected topics from key mathematical works of medieval Islam, based on the Arabic texts themselves. Many of these works had a great influence on mathematics in Western Europe. Topics

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covered in the first edition include arithmetic, algebra, geometry, trigonometry, and numerical approximation; this second edition adds number theory and combinatorics. Additionally, the author has included selections from the western regions of medieval Islam—both North Africa and

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Spain. The author puts the works into their historical context and includes numerous examples of how mathematics interacted with Islamic society.

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it enables the reader with some knowledge of trigonometry and elementary algebra to follow the derivations. While delving into the nature of the socio-economic processes that led to the development of scientific knowledge in pre-modern

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Euclid was a mathematician from the

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Greek city of Alexandria who lived during the 4th and 3rd century B.C. and is often referred to as the "father of geometry." Within his foundational treatise "Elements," Euclid presents the results of earlier mathematicians and includes many of his own theories in

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a systematic, concise book that utilized a brief set of axioms and meticulous proofs to solidify his deductions. In addition to its easily referenced geometry, "Elements" also includes number theory and other mathematical considerations. For

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centuries, this work was a primary textbook of mathematics, containing the only framework for geometry known by mathematicians until the development of "non-Euclidian" geometry in the late 19th century. The extent to which Euclid's "Elements" is

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of his own original authorship or borrowed from previous scholars is unknown, however despite this fact it was his collation of these basic mathematical principles for which most of the world would come to the study of geometry. Today, Euclid's

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"Elements" is acknowledged as one of the most influential mathematical texts in history. This volume includes all thirteen books of Euclid's "Elements," is printed on premium acid-free paper, and follows the translation of Thomas Heath.

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in the origins of their methods. This book deals with the mathematics of the medieval West between ca. 500 and 1100, the period before the translations from Arabic and Greek had their impact. Four of the studies

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appear for the first time in English. Among the topics treated are: the Roman surveyors (agrimensores); recreational mathematics in the period of Bede and Alcuin; geometrical texts compiled in

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Corbie and Lorraine from Latin sources from late antiquity; the abacus at the time of Gerbert (pope Sylvester II.); and a board-game invented in the first half of the 11th century (the 'Rithmimachia') to help people to

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learn mathematics. Included in the volume are critical editions of several texts, e.g. that of Franco of Liège on squaring the circle, Bede and Alcuin on recreational mathematics, and part of Pseudo-Boethius' Geometry I. The book

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***opens with a survey of
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and ends with a history of
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