Numbers: Their History and Meaning (Dover Books on Mathematics)



Numbers: Their History and Meaning (Dover Books on Mathematics)

Description:

Much in our daily lives is defined in numerical terms-from the moment we wake in the morning and look at the clock to dialing a phone or paying a bill. But what exactly is a number? When did man begin to count and record numbers? Who made the first calculating machine-and when? At what point did people first think of solving problems by equations? These and many other questions about numbers are answered in this engrossing, clearly written book. Written for general readers by a teacher of mathematics, the jargon-free text traces the evolution of counting systems, examines important milestones, investigates numbers, words, and symbols used around the world, and identifies common roots. The dawn of numerals is also covered, as are fractions, addition, subtraction, multiplication, division, arithmetic symbols, the origins of infinite cardinal arithmetic, symbols for the unknown, the status of zero, numbers and religious belief, recreational math, algebra, the use of calculators —from the abacus to the computer —and a host of other topics. This entertaining and authoritative book will not only provide

Numbers Their History And Meaning

Thomas Hunt Morgan

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Numbers Graham Flegg, 1983 Extremely readable jargon free book for general readers traces the evolution of counting systems from the primitive techniques of antiquity to computers Text examines the earliest endeavors to count and record numbers initial attempts to solve problems by using equations and origins of infinite cardinal arithmetic Surprisingly exciting A Brief History of Numbers Leo Corry, 2015 This is the story behind the idea of number from the Pythagoreans up until the turn of the 20th century through Greek Islamic European mathematics History of Number Kay Owens, Glen Lean, Patricia Paraide, Charly Muke, 2017-10-24 This unique volume presents an ecocultural and embodied perspective on understanding numbers and their history in indigenous communities The book focuses on research carried out in Papua New Guinea and Oceania and will help educators understand humanity s use of numbers and their development and change The authors focus on indigenous mathematics education in the early years and shine light on the unique processes and number systems of non European styled cultural classrooms This new perspective for mathematics education challenges educators who have not heard about the history of number outside of Western traditions and can help them develop a rich cultural competence in their own practice and a new vision of foundational number concepts such as large numbers groups and systems Featured in this invaluable resource are some data and analyses that chief researcher Glendon Angove Lean collected while living in Papua New Guinea before his death in 1995 Among the topics covered The diversity of counting system cycles where they were established and how they may have developed A detailed exploration of number systems other than base 10 systems including 2 cycle 5 cycle 4 and 6 cycle systems and body part tally systems Research collected from major studies such as Geoff Smith s and Sue Holzknecht s studies of Morobe Province s multiple counting systems Charly Muke s study of counting in the Wahqi Valley in the Jiwaka Province and Patricia Paraide s documentation of the number and measurement knowledge of her Tolai community The implications of viewing early numeracy in the light of this book s research and ways of catering to diversity in mathematics education In this volume Kay Owens draws on recent research from diverse fields such as linguistics and archaeology to present their exegesis on the history of number reaching back ten thousand years ago Researchers and educators interested in the history of mathematical sciences will find History of Number Evidence from Papua New Guinea and Oceania to be an invaluable resource Companion Encyclopedia of the History and Philosophy of the Mathematical Sciences Ivor Grattan-Guiness, 2004-11-11 First published in 2004 This book examines the history and philosophy of the mathematical sciences in a cultural context tracing their evolution from ancient times up to the twentieth century Includes 176 articles contributed by authors of 18 nationalities With a chronological table of main events in the development of mathematics Has a fully integrated index of people events and topics as well as annotated bibliographies of both classic and contemporary sources and provide unique coverage of Ancient and non Western traditions of mathematics Presented in Two Volumes Number Theory and Its History Oystein Ore, 2012-07-06 Unusually clear accessible

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The Rhetorical Use of Numbers in the Deuteronomistic History Denise C. But not all scholars agree Join the debate Flanders, 2022-04-11 The Deuteronomistic History contains many vast troop and casualty numbers What purpose does this literary device of numerical hyperbole serve What rhetorical purposes do any of the numbers in this text serve In The Rhetorical Use of Numbers in the Deuteronomistic History Saul Has Killed His Thousands David His Tens of Thousands Denise Flanders explores the variety of rhetorical effects that numbers have on the narrative of Joshua 2 Kings Flanders demonstrates that numbers in Joshua 2 Kings often work in surprising and subversive ways Rather than regularly glorifying a leader large casualty numbers may actually anticipate a ruler's downfall Rather than underscoring an Israelite battle victory numbers sometimes qualify or undermine the triumph of victories The History of Mathematical Proof in Ancient **Traditions** Karine Chemla, 2012-07-05 This radical profoundly scholarly book explores the purposes and nature of proof in a range of historical settings It overturns the view that the first mathematical proofs were in Greek geometry and rested on the logical insights of Aristotle by showing how much of that view is an artefact of nineteenth century historical scholarship It documents the existence of proofs in ancient mathematical writings about numbers and shows that practitioners of mathematics in Mesopotamian Chinese and Indian cultures knew how to prove the correctness of algorithms which are much more prominent outside the limited range of surviving classical Greek texts that historians have taken as the paradigm of ancient mathematics It opens the way to providing the first comprehensive textually based history of proof Scientific Papers, 1889-1913 Thomas Hunt Morgan, 1913

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