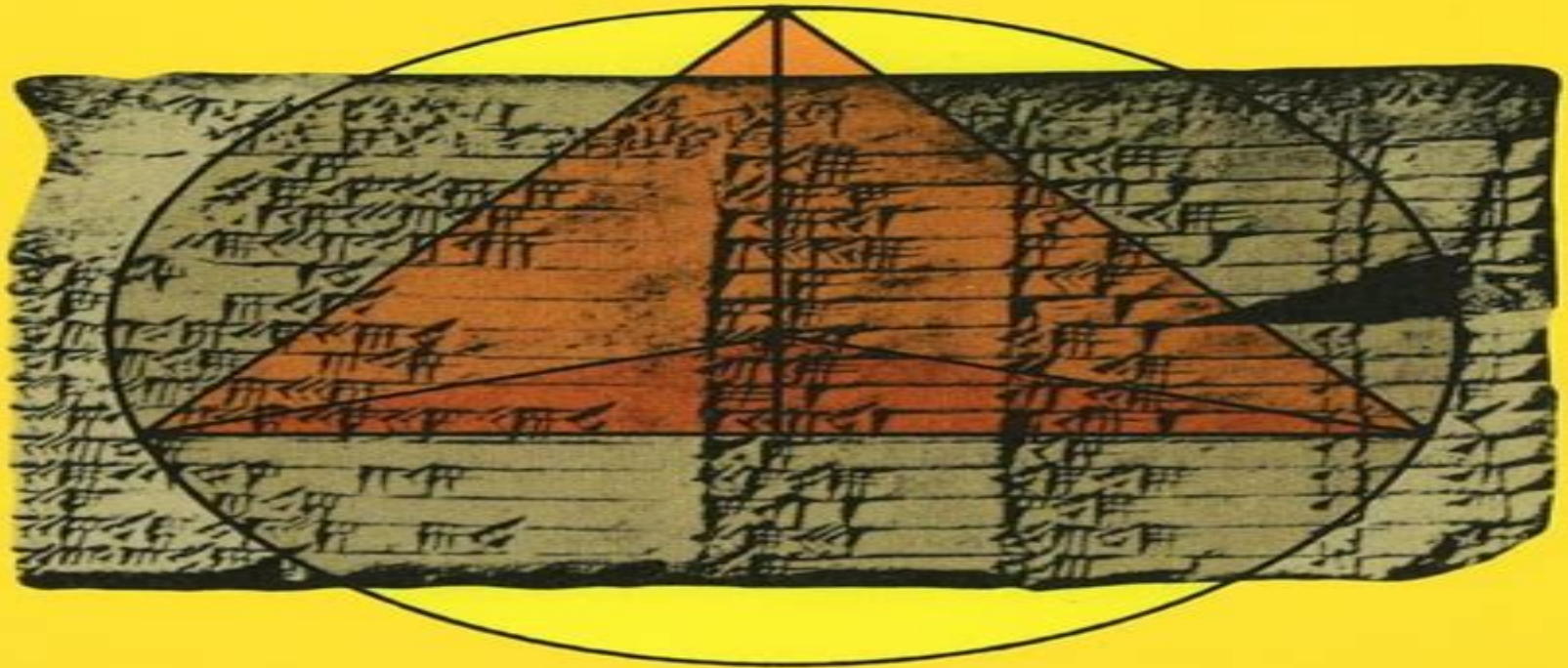


THE HISTORICAL ROOTS OF ELEMENTARY MATHEMATICS



Lucas N.H. Bunt,
Phillip S. Jones,
Jack D. Bedient

The Historical Roots Of Elementary Mathematics

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functional now as it was when Thales worked out the first geometrical theorems nearly 26 centuries ago From the Foreword by Isaac Asimov One of the most useful and comprehensive general introductions to the subject J W Dauben The City University of New York Both readable and scholarly this book can serve as a fine introduction to the topic and also a reference book J David Bolter University of North Carolina Author of Turing's Man Revised to make it more accessible to a general audience A History of Mathematics paints a vivid picture of humankind's relationship with numbers Updated and expanded it now offers broadened coverage of twentieth century advances in probability and computers and updated references to further reading A feature that will be of interest to every reader is an appendix containing an extensive chronological table of mathematical and general historical developments **The American Mathematical Monthly**, 1896 Includes section Recent publications **Subject Guide to Books in Print**, 1996 *The Teaching and Learning of Algorithms in School Mathematics* Lorna J. Morrow, Margaret J. Kenney, 1998 This 1998 yearbook aims to stimulate and answer questions that all educators of mathematics need to consider to adapt school mathematics for the 21st century The papers included in this book cover a wide variety of topics including student invented algorithms the assessment of such algorithms algorithms from history and other cultures ways that algorithms grow and change and the importance of algorithms in a technological world Chapters include 1 Whither Algorithms Mathematics Educators Express Their Views Lorna J Morrow 2 Paper and Pencil Algorithms in a Calculator and Computer Age Zalman Usiskin 3 What Is an Algorithm What Is an Answer Stephen B Maurer 4 Algorithmic and Recursive Thinking Current Beliefs and Their Implications for the Future Tabitha T Y Mingus and Richard M Grassl 5 Teaching Mental Algorithms Constructively Alistair McIntosh 6 What Criteria for Student Invented Algorithms Patricia F Campbell Thomas E Rowan and Anna R Suarez 7 The Importance of Algorithms in Performance Based Assessments Dominic Peressini and Eric Knuth 8 A Brief History of Algorithms in Mathematics Janet Heine Barnett 9 Understanding Algorithms from Their History Barnabas Hughes 10 An Exploration of the Russian Peasant Method of Multiplication Laura Sgroi 11 Hammurabi's Calculator Clifford Wagner 12 Capsule Lessons in Alternative Algorithms for the Classroom Diane E Mason 13 Historical Algorithms Sources for Student Projects Rheta N Rubenstein 14 Alternative Algorithms for Whole Number Operations William M Carroll and Denise Porter 15 My Family Taught Me This Way Pilar Ron 16 Calculators in Primary Mathematics Exploring Number Before Teaching Algorithms Susie Groves and Kaye Stacey 17 The Harmful Effects of Algorithms in Grades 1-4 Constance Kamii and Ann Dominick 18 A Contextual Investigation of Three Digit Addition and Subtraction Kay McClain Paul Cobb and Janet Bowers 19 Children's Invented Algorithms for Multidigit Multiplication Problems Jae Meen Baek 20 The Write Way To Mathematical Understanding David J Whitin and Phyllis E Whitin 21 Letting Fraction Algorithms Emerge through Problem Solving DeAnn Huinker 22 Developing Algorithms for Adding and Subtracting Fractions Glenda Lappan and Mary K Bouck 23 A Constructed Algorithm for the Division of Fractions Janet Sharp 24 Dividing Fractions by Using the Ratio Table Jonathan L Brendefur and

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