HENDERSON'S UNITED STATES INTELLECTUAL AND PRACTICAL LIGHTNING CALCULATOR: THE UNITY AND DECIMAL METHOD

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649601165

Henderson's United States Intellectual and Practical Lightning Calculator: The Unity and Decimal Method by J. A. Henderson

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd. Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

J. A. HENDERSON

HENDERSON'S UNITED STATES INTELLECTUAL AND PRACTICAL LIGHTNING CALCULATOR: THE UNITY AND DECIMAL METHOD





J. A Henderson a. Mr.

Entered according to Act of Congress, in the year of our Lord 1878, By J. A. HENDERSON, In the Office of the Librarian of Congress, at Washington, D. C. ALL RIGHTS RESERVED.

PREFACE.

IT is better to know everything about something, than something about everything. Early ideas are not usually true, but need revising and revis-

ing before they are thoroughly practical.

There is only one right, but many wrongs, only one right answer, and one right way to find it. Since thought kindles at the fire of thought I have no apology to make for giving to the world the true science of numbers, and how to apply it easily and accurately, for much time is saved, and above all the true culture and discipline of mind afforded here are above price. The alphabet is the important feature in every science, hence it ought to have our first and best thought, for begin right always right, begin wrong stumble along. Ten is the base of our system of notation. Now let b represent the base of any system of notation, and b divided by b equals the zero power of b. Now to eliminate the literal terms of dividend and divisor, we divide both terms of dividend and divisor, b, by b, and get the numerical equivalent 1, one one, hence according to axiom first the zero power of the base of any system of numerical notation must be |. Hence number you observe has two terms which I denominate the unity and unit terms of number the unity term below and the unit term above the line that divides them. Multiplying the unit term by two you get the second character in the alphabet, by three the third &c., and naught the last. The unity united to the unit contains the idea of addition hence the sign, +, called plus, taking away the unit term and unity term we have the negative sign, —, called minus, the two fundamental signs of arithmetic, the decimal point, ., indicates the omission of the unity term of number. The dividing line is also the sign of division, and \(\frac{1}{2}=1\), read one divided by one equals one. The rules of this book are founded on this triune expression, \(\frac{1}{2}\), and the whole science of Arithmetic is quickly learned and easily remembered because not only the signs and rules but the analysis and reason of rule proceed directly from the unity and unit terms of number.

Inverting any number tells how many times it is contained in unity, hence the reason of multiplying or dividing follows clearly according to the conditions of the question. This is manifest in the alphabet of numbers, for multiplying the unity term of the ‡ by any number tells how many times the number is contained in unity which is equivalent to inverting the number.

Hence in an instant the most intricate and important calculations in every line of business are made. I am the author of the only Intellectual and Practical Lightning Calculator ever published, of which ten editions have been sold. In the mean time, unscrupulous persons have presented my rules and used my name to aid in selling spurious publications under various titles.

J. A. HENDERSON, A. M.

Author and Proprietor.

TABLE OF CONTENTS.

Page.	Page
Frontispiece-Likeness of	Buying and selling Lumber . 190
the Author	Cube Root 47 & 194
Title Page.	Compound Interest,166
Preface.	Custom-House Business 162
Addition 8	Difference of time between
Addition by combination 9	two dates 39
Addition, commencing at the right or left hand column 10	Division by Complement and Supplement185
Addition, Business Method178	Equation of Payments and
Appendix109	Averaging Accounts170
Analysis120	Fractions 33
- of Fractions	Fractions, Cube and Square
- of Addition of Fractions 130	Root of 82
-of Subtraction of Fract'ns. 135	Fractions, Division of 35
- of Multiplicat'n of Fract's. 137	Forms of Notes 75
- of Division of Fractions142	Finding the day of the week
Analysis of the relative value	from the day of the month 39
of Currency to Gold145	General Information 72
Analysis of the relative value	Gold and Currency, value of. 36
of Gold to Currency146	German103
Analysis of Measuring Cord	Greatest Common Divisor 30
Wood147	Interest, New Decimal Me-
Analysis of Measuring Stone.148	thod of Computing, Illus-
Annual Interest165	trated by Engravings 16
Arrangement of the Ratios of	Interest Analysis150
the Year	Interest on English Money163
Arrangement of the Ratios of	Interest Problems 20
the Centuries203	— Tables 37
Buying and selling —	- Calculations 05
by the Hundred 93 & 190	Insurance161
by the Thousand 94	Least Common Multiple, 31
by the Ton91 & 190	Measuring Grain 57

Paus.	Page
Measuring Corn in the Bin,	State and Local Taxes163
or Grain of any kind 149	Square and Round Timber 160
Measuring Land55, 175 & 191	Square Root 48
 with the Rod Pole176 	Square Root, Extracting of 4
Measuring Surfaces and Solids 72	Specific Gravity 84
Measurement of Lumber167	Table of Weights & Measures. 79
Mental Exercises 62	To add the alphabet of num-
Multiplication Table, New	bers178
Method 3	To Discharge a Debt of Prin-
Multiplication, the General	cipal and Interest in a given
Law of179	Number of Equal Annual
Multiplication and Division,	Payments 173
Short Method 58	To Find the contents of Planks
Multiplication of numbers.29, 64	Scantling, Joists and Square
Multiplying, Special Rules101	Timber160
Miscellaneous Problems 66	To Find the Sum of a Series of
Marking goods by the doz 101	Terms, Increasing by a com-
Method of Squaring Numbers	mon Difference
by Complement and Sup-	To Find the Sum of a Series of
plement	Terms, Increasing by a con-
Numerical alphabet 5	stant Multiplier173
Numeration 6	To Find the sum of a series of
Plane Figures, to find sur-	Terms decreasing by a con-
face of 54	stant Multiplier
Powers and Roots 42	To find the Amount of Square-
Proof of Fundamental Rules, 12	edged Inch Board that can
Populations 77	be Sawed from a round log .17
Presidents of the U.S 78	To find the ratio of any year .20.
Percentage	The Law of Time
Present Worth and Discount.158	Weighing and Measuring
Stocks and Bonds160	Grain19

2 8

