# GREENLEAF'S MATHEMATICAL SERIES; A BRIEF COURSE IN ARITHMETIC: ORAL AND WRITTEN

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**BENJAMIN GREENLEAF** 

# GREENLEAF'S MATHEMATICAL SERIES; A BRIEF COURSE IN ARITHMETIC: ORAL AND WRITTEN

Trieste

Greenleaf's Mathematical Series.

## BRIEF COURSE

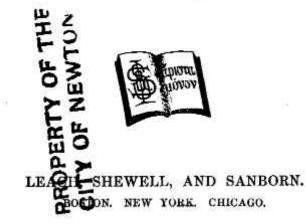
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## ARITHMETIC,

ORAL AND WRITTEN.

ON THE BASIS OF WORKS

By BENJAMIN GREENLEAF, A.M.



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### GREENLEAF'S

### MATHEMATICAL SERIES.

#### INDUCTIVE COURSE.

FIRST LESSONS IN NUMBERS.

A BRIEF COURSE IN ARITHMETIC.

THE COMPLETE ARITHMETIC.

The BRIEF COURSE and the COMPLETE ARITHMETIC are each published with and without answers.

KEY TO THE COMPLETE ARITHMETIC, for Teachers only

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### PREFACE.

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THIS BRIEF COURSE IN ARITHMETIC has been prepared to meet the needs of two classes of learners.

Young pupils who are expected to finish a course of grammar-school study, and who are to be trained in the lower grades to facility and accuracy in the fundamental use of numbers, require training in both oral and written work. While they are not mature enough to comprehend the *theory* and *science* of numbers, they may be especially benefited by much simple *practice*. For them the book furnishes what is desirable, much practical work and little theory.

There are many learners whose circumstances compel them to leave school at an early age. They have little time to spend on definitions and theory, but need practice in the essentials of arithmetic. This work will help such to acquire the ability to use numbers and apply them to the ordinary transactions of life.

The close and constant union of oral and written work, the treatment of decimals, United States money, and denominate numbers in connection with the fundamental rules, and the large number of exercises provided, are among the features that will commend this book to practical teachers.

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### A BRIEF COURSE

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#### IN

## ARITHMETIC.

#### NOTATION AND NUMERATION.

1. A Unit is a single thing, or one; as one book, one slate.

2. A Number is a unit, or a collection of units; as one book, five slates.

3. Arithmetic treats of numbers and their use.

4. Figures are characters used to express numbers.

5. Ten different figures are used in writing numbers:

Name. Zoro, One, Two, Three, Four, Five, Six, Seven, Eight, Nine. Figure. 0, 1, 2, 3, 4, 5, 6, 7, 8, 9.

These figures used alone express the number of units shown by their names.

The zero, or cipher, used alone expresses no units.

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6. To express numbers larger than nine two or more figures are written side by side.

7. A figure used alone has only a simple name and value; but, when used with other figures, it has also a place-name and value.

8. When two figures are used to express a number, the figure in the first, or right-hand, place has the place-name ones, and the figure in the second place has the place-name tens. Thus,

10 is 1 ten, 0 ones, or ten.
23 is 2 tens, 3 ones, or twenty-three.
46 is 4 tens, 6 ones, or forty-six.
99 is 9 tens, 9 ones, or ninety-nine.

10 ones make 1 ten.

9. When three figures are used to express a number, the figure in the third, or left-hand, place has the placename hundreds; the figure in the second place, tens; and that in the first, ones. Thus,

100 is 1 hundred, 0 tens, 0 ones, or one hundred.
280 is 2 hundreds, 8 tens, 0 ones, or two hundred eighty.
672 is 6 hundreds, 7 tens, 2 ones, or six hundred seventytwo.

948 is 9 hundreds, 4 tens, 8 ones, or nine hundred fortyeight.

10 tens make 1 hundred.

10. When four figures are used to express a number, the place-name of the fourth, or left-hand, figure is thousands, the place-names of the other three figures being hundreds, tens, ones, as before. Thus,

2

- 1000 is 1 thousand, 0 hundred, 0 tens, 0 ones, or one thousand.
- 2300 is 2 thousand, 3 hundred, 0 tens, 0 ones, or two thousand three hundred.
- 4560 is 4 thousand, 5 hundred, 6 tens, 0 ones, or four thousand five hundred sixty.
- 7895 is 7 thousand, 8 hundred, 9 tens, 5 ones, or seven thousand eight hundred ninety-five.

10 hundreds make 1 thousand.

#### 11. EXERCISES.

Read the following numbers :

1.	2.	3	4	5.	6.
13	68	121	837	1600	897 <b>3</b>
25	79	347	608	2705	8888
63	88	829	700	3492	4004
76	45	305	921	6983	9060
89	91	630	346	4217	3498

Write in figures the following numbers :

- 7 Sixty-four; eighty-seven; twenty-two; ninety.
- 8. Three hundred sixty-two; four hundred eleven.
- 9. Eight hundred ninety; seven hundred eighty-eight.
- 10. Six hundreds, four tens, seven ones.
- 11. Two thousand one hundred twelve.
- 12. Four thousand six hundred eighty-one.
- 13. Eight thousand nine hundred twenty-four.
- 14. Seven thousand seventy-nine.
- 15 Nine thousands, four hundreds, six tens, three ones.

NOTE. The teacher will dictate additional numbers.

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