DAVIES AND PECK'S UNITED COURSE. ELEMENTARY ARITHMETIC, ORAL AND WRITTEN

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WILLIAM G. PECK

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ELEMENTARY

ARITHMETIC.

ORAL AND WRITTEN.

BY

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DAVIES AND PECK'S

SHORT COURSE IN MATHEMATICS

IN FOUR BOOKS.

ELEMENTARY ARITHMETIC.

COMPLETE ARITHMETIC.

MANUAL OF ALGEBRA.

MANUAL OF GEOMETRY.

PREFACE.

THIS work is designed as the Introductory Volume of the Two Book Course of DAVIES and PECK. It is especially adapted to beginners. It is believed that the subjects are treated in such a manner as to interest and awaken the attention of the young.

In preparing the work, three objects have been constantly kept in view.

1. To make it educational.

2. To make it practical.

3. To adapt it to the capacity of any child whose mind is sufficiently mature to commence the study of arithmetic.

To attain these objects, every new subject has been introduced by an inductive process, and the idea thus developed has been expressed in the form of a definition. The methods and rules have been deduced from practical operations and enforced by familiar illustrations. To direct the attention to important principles, leading test questions have been freely introduced.

In determining the subjects to be included, and the space to be assigned to each, the author has been guided by a consideration of the natural development of the

mental faculties. The book may be said to consist of five parts. The first part contains simple, familiar Lessons in Numbers. The second part contains the Fundamental Operations followed by General Principles and Properties of Numbers. The third contains Fractions, in which great pains have been taken to render the work intelligible to young students. Currency and the Metric System follow, because of their intimate relation to Decimal Fractions. The fourth contains Compound Numbers and Reduction. The fifth, Percentage and its applications.

The logical development of principles, the systematic arrangement of the subjects, the copiousness and variety of exercises will, it is believed, greatly aid the teacher in exciting the interest of the pupil.

Teachers who desire to give a more extended drill in the simplest operations, are referred to "PECK'S FIRST LESSONS IN NUMBERS."

To facilitate references, a complete Index to the Subjects and Definitions is inserted at the end of the volume.

The author takes great pleasure in acknowledging his obligations to many teachers who have favored him with suggestions and criticisms. But more than a passing acknowledgment is due to Prof. JOHN DUNLAP, whose long experience and superior ability as a Teacher have enabled him to render much valuable assistance in the preparation of this work.

CONTENTS.

FORMATION OF NUMBERS.

LESSON I.

COUNTING.

Look at the picture and count the objects named below.

How many houses?
How many horses?
How many sail-boats?
How many high trees?
How many boats?
How many boys at play?
How many windows in front?
How many small trees?
How many birds?
How many children at play?