## PREFACE.

This book differs from the ordinary school text-books on elementary arithmetic in the following respects :---

Ist. It omits the rules, solved examples and explanations usually given under the headings of Notation and Numeration, the Simple and the Compound Rules. These rules and explanations are never studied by the pupil who is not sufficiently advanced in the art of reading and in his general studies to follow explanations and directions given in print. They must be presented to him orally, with all the advantages of variation of expression and of emphasis possessed by the living voice, and he must see every solution developed step by step. The space gained by the omission of these useless rules has been devoted to the practical problems given in Chapter IV.

culture.

2nd. From the Tables of Measures all weights and measures not in general use in Canada have been omitted, and in those defined by Act of Parliament the Dominion Statutes have been earefully followed.

3rd. The extremely complicated expressions which it has become of late the custom to introduce under the head of Complex Fractions are represented by the last half-dozen questions in Exercise LXIII., and even these may well be passed over by the teacher. These fashionable conundrums in symbols are out of place in an elementary arithmetic.

4th. No mention is anywhere made of the so-called True Discount of the text-books. In business transactions the word *discount* bears one meaning and one only, viz., that given on page 166 of this work. The text-book problems in True Discount are nothing more than questions in Interest, and to call them by any other name is merely introducing needless confusion.

5th. Decimal Fractions, or Decimals, instead of being treated as a special class of fractions, are presented as an easy and natural extension of our ordinary system of numeration. Too often the result of deriving the rules for decimals from those for fractions is, that the