

## PREFACE.

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This work has been prepared for the use of teachers and private students. With the multiplicity of duties ordinarily devolving on the teacher, time cannot always be had to solve all questions that may be presented by the pupil. Hence a work such as this becomes a great convenience, if not an actual necessity.

It has not been thought best to solve such exercises as are comparatively easy or merely mechanical. Hence those under the Simple Rules, many of those in Fractions, Extraction of Roots, the Compound Rules, Interest, etc., are omitted. The Examination Papers have all been solved.

The solutions have been given with strict reference to the Unitary Method, thus showing its applicability to questions of every variety and every degree of difficulty. They do not exhibit all the calculations at large, but they always furnish results which serve to verify the operations at the successive stages of the process. In this way all that is necessary has been brought within a narrow compass, and the connection of the different parts of each solution will be more readily perceived.

It has not been the aim of the Authors to make a mere Key, but to exhibit the best and neatest mode of working Arithmetical Exercises. Not only are neatness and method encouraged by the habit of arranging figures in their exact places, but the accuracy of the answer is best secured by the same means.

Indications of any errors or obscurities will be thankfully received.

TORONTO, May, 1879,