

**HELP TO ARITHMETIC.
DESIGNED FOR THE
USE OF SCHOOLS**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649601134

Help to Arithmetic. Designed for the Use of Schools by H. Candler

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

H. CANDLER

**HELP TO ARITHMETIC.
DESIGNED FOR THE
USE OF SCHOOLS**

HELP TO ARITHMETIC.

Cambridge:
PRINTED BY C. J. CLAY, M.A.
AT THE UNIVERSITY PRESS.



HELP TO ARITHMETIC

DESIGNED FOR THE USE OF
SCHOOLS.

BY

H. CANDLER, M.A.,

OF TRINITY COLLEGE, CAMBRIDGE:
AND MATHEMATICAL MASTER OF UPPINGHAM SCHOOL.



London and Cambridge:
MACMILLAN AND CO.
1868

[All Rights reserved.]

181. 9. 37.

P R E F A C E .

THE writer of the following pages believes that an apology is due for the apparent want of completeness and consecutiveness that are evident in his treatment of the subject they deal with. His only excuse is that this very inconsecutiveness was intentional. His desire was not to make a book. That would seem unnecessary in the presence of the many very excellent treatises on Arithmetic now current in schools. The present work is intended as a companion to any text-book that may be in use, and the object of the writer has been twofold. He has proposed to himself to exhibit in a compendious form explanations of certain Arithmetical difficulties, which, in the course of many years' teaching, he has found satisfactory to his pupils; and to put before boys examples of sums in various rules fully worked out in a clear, uniform, and natural manner. In the "money rules" he has endeavoured

to show that there are no new processes; only new technical expressions to be explained; and that these rules can therefore be made at once to depend on the ordinary forms of proportion.

It will be seen from the above remarks that the design of the book is of the humblest nature. There are no novelties, no ambitious attempts. It only aspires to be useful, and endeavours to accomplish this end by means of clear explanations, and by urging upon learners the necessity of a neat, logical, and methodical treatment of sums.

It is the intention of the writer to follow up this publication with two or more similar treatises on Algebra, Euclid, and other kindred school subjects of an elementary nature; the whole will thus form a single work, of which the present must be considered the First Part.

CONTENTS.

	PAGE
I. INTRODUCTION	1
Numeration and Notation	2
Division, Definition of	2
Arithmetical Tables	3
Square and Cubic Measure	5
Least Common Multiple	9
II. Vulgar Fractions	11
III. Decimal Fractions	28
IV. Proportion	40
V. RULES REDUCIBLE TO PROPORTION.	
Simple Interest	43
Compound Interest	47
Discount	50
Stocks	51
Profit and Loss	56
VI. MISCELLANEOUS EXAMPLES.	
Proportional Parts, &c.	59
Chain Rule	62
Per centage	63
Concluding Remarks	63
NOTES	68