# A COMPLETE COURSE OF QUESTIONS IN ARITHMETIC & MENSURATION: FOR THE USE OF SCHOOLS AND PRIVATE STUDENTS

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A Complete Course of Questions in Arithmetic & Mensuration: For the Use of Schools and Private Students by Richard Bowling

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## RICHARD BOWLING

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#### A COMPLETE

## COURSE OF QUESTIONS

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# ARITHMETIC & MENSURATION,

FOR THE USE OF

### SCHOOLS AND PRIVATE STUDENTS.

BY

RICHARD BOWLING,
MILK STREET SCHOOL, SHEFFIELD.

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1858.

181. 0.4.

### IN A SHORT TIME WILL BE PUBLISHED,

BY THE SAME AUTHOR,

# A KEY TO THE QUESTIONS

CONTAINED IN THIS WORK,

EMBRACING NOT ONLY THE ANSWERS TO THE WHOLE, BUT ALSO, IN A CONDENSED FORM, THE WORKING TO MAKE OF THEM.



#### PREFACE.

Amono the various branches of study pursued by youths, no one is of more importance than a practical acquaintance with Arithmetic; and judging from experience, few are more superficially studied. One of the causes of this slight acquaintance with what cannot be too thoroughly understood, is, in my opinion, the custom of youths working for a length of time exclusively in one rule, then passing on to another, which is worked in the same way, and so on through the book: the great evil of this system is, that the pupil acquires a habit of working mechanically; a process which evades very materially any effort of the thinking power, without which, all working in Arithmetic, as in every other branch of study, is utterly worthless as a source of mental training. To counteract this evil is the principal object I have had in view in composing and arranging the following work; and as it is the result of an experience of many years' teaching, and the great majority of the questions were composed expressly to meet the difficulties which youths find in working the various rules, I feel the greatest confidence in placing it in the hands of gentlemen engaged in teaching Arithmetic and Mensuration, being assured that it will be to them, what it has been to me, a valuable help in inducing their students to think, which is the principal object a teacher will always have in view.

The Questions are arranged on the principle that as soon as a youth understands a rule he should cease working exclusively in it, and occupy himself with every rule from the commencement of the work to the end of that rule. To enable him to pursue this course, I have given numerous examples under each rule, that he may be able to understand thoroughly the principle of it; but at stated periods I have introduced examination papers, embracing every rule from the commencement of Arithmetic to the close of that rule. These examination papers, which constitute the peculiarity of the work, will be found of invaluable service to the student, as they embody all the rules which he has worked, but do not contain a single question that is beyond his power, if he exert himself; as it was not my object to try to puzzle him, but to use such plainness of language that the questions might be easily understood, and yet be such as should tend directly to his improvement; and when he has gone through the course of Arithmetic here presented to him, he will be prepared to understand and appreciate the beautiful reasoning of Euclid, which should be placed in his hands on his commencing the study of Mensuration, that his acquaintance with it may keep pace with his progress in that very useful part of a practical Education.

Milk Street School, Sheffeld, January, 1958,

## QUESTIONS IN ARITHMETIC.

#### NOTATION AND NUMERATION. .

### Express in Figures-

- 1 Fifty-seven.
- 2 One hundred and thirty-two.
- 3 Seven hundred and five.
- 4 Two thousand one hundred and eighty-nine.
- 5 Five thousand and nine.
- 6 Thirty-seven thousand and sixty-three.
- 7 Sixty-nine thousand, four hundred and ten.
- 8 Forty-four thousand, and two.
- 9 One hundred thousand, and one.
- 10 Seventy thousand, and sixty-six.
- 11 Six hundred and fifteen thousand, and nine.
- 12 One million, two hundred and sixty-three thousand, seven hundred and fourteen.
- 13 Three millions, three thousand, and three.
- 14 Twenty-nine millions, eight hundred and fifty-four thousand, six hundred and seven.
- 15 Ten millions, and three.
- 16 Ninety-five millions, two thousand, and nine.
- 17 Eight thousand, and thirty-eight.
- 18 Sixty millions, seven hundred and three thousand, four hundred and twenty-one.
- 19 Fourteen millions, fourteen thousand, and fourteen.
- 20 Seven hundred and ninety-six millions, six hundred and fifty-three thousand, four hundred and ninetyfive.

### Express in words-

1	74	: 11	7004709
2	704	12	123456789
3	4704	13	940009
4	7499	14	10010019
5	9007	15	674079
65	40117	16	20000002
7	20019	17	417418697
8	147647	18	2600742
13	20104	1 19	18647409
10	47039	20	700401001

4.6	20104	1.9	18047409	
10	47089	20	700401001	
	SIMPL	E ADD	ITION.	
1	746+9479+42+427	798+428		
2	4987 + 74296 + 26 + 9879 + 74856			
3	247 + 42987 + 64 + 428 + 79989			
4	9497 + 69496 + 709 + 5486 + 62489			
11	526 + 475 + 6498 + 429 + 98749			
6	4737 + 94 + 749 + 9879 + 24896			
7 8	949 + 8376 + 4798 + 59874 + 749			
8	4276 + 649 + 978 + 94956 + 4788			
9	686 + 7843 + 949 + 4789 + 9768			
10	749896+26+8987+ +748	4978+2	26+249+98742+64989	
11	4986+98799+7486 947389	+598798	3+26+4277+89079+	
12	874+4799+94998+ +84768	-26+42°	7+948759+4268+749	
13	7986 + 427 + 94989 + + 74896	-73+57¢	3+49798+947998+743	
14	6674 + 423 + 4998 + 74986 + 643 + 49879 + 6785 + 49869			
15	9789+26279+57+ 26987	26897+	199+7856+49837+	
16	269 + 9547 + 87989 + 486 + 94789 + 210426 + 537 + 7654			
17	7.75	4769+8	36295 + 46 + 749 + 98786	
18			78+259+7862+264+	
19		427 + 64	+587+4987+26476+	

20 743+4987+7654+426+84769+987654+53+8476

### SIMPLE SUBTRACTION.

1	74700964-1864937
2	846214734-6478957
3	72010732-219864
4	847314869—1749467
5	47826142679-247864289
6	94101020304-123456789
7	6548210426-417416954
8	147186947-24680135
9	742864965 654821796
10	87438647-14674186
11	96543749-71498967
12	6547310969-4274156
13	98574986-19869876
14	. 123456789-98765532
15	9497102118-65467896
16	410765432-24678746
17	5423104286-43718649
18	67101420110-142914678
19	4237468146-784186473
20	1284567471-758647496

### SIMPLE MULTIPLICATION.

1	749869726×2	11	$7647489 \times 18$
2	$478698437 \times 3$	12	494867×14
3	$674989746 \times 4$	13	8478969×749
4	4897645×5	14	479809×74089
5	$79898976 \times 6$	15	64187498×24009
6	$91478947 \times 7$	i 16	914731496×74804
7	846497846 × 8	17	47814874×67804
8	$94374798 \times 9$	18	91472356×47907
9	42642749×11	19	
10	$947864129 \times 12$	20	7498789×98706
		1.7/1.10/1.25/1.25/1	

### SIMPLE DIVISION.

1	$7986946 \div 2$	1 7	4796478946 + 74
2	$194718647 \div 8$	8	$6474786943 \div 43$
3	$147864678 \div 4$	9	$9876549216 \div 248$
4	274698496 + 5	10	$4798847469 \div 725$
5	$794674986 \div 6$	11	$9874946743 \div 847$
6	142734697 + 7	12	47387624746 + 9418