ARITHMETICAL PROBLEMS, ARRANGED FOR DRILL AND REVIEW IN PRIMARY, GRAMMAR, AND HIGH SCHOOLS

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Arithmetical Problems, Arranged for Drill and Review in Primary, Grammar, and High Schools by E. Wentworth

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E. WENTWORTH

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ARITHMETICAL PROBLEMS,

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DRILL AND REVIEW

IN

PRIMARY, GRAMMAR, AND HIGH SCHOOLS.

By E. WENTWORTH,
PRINCIPAL OF NORTH SCHOOL, PORTLAND, ME.

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PREFACE.

HAVING felt the necessity of a larger number of progressive examples for practice than is usually found in the text-books, in order to secure accuracy and rapidity in arithmetical operations, I prepared, some time since, and used in my own school, most of the examples included in the first three chapters of this book; and by request of many experienced teachers, additions have been made to those examples, and the work is now offered to the public; not, however, as a rival to any other text-book, but as one designed to be used with, and supplementary to, any text-book in use.

Experience shows that much time is lost by inaccuracy in computation, and that many pupils who can perform, satisfactorily, examples arranged under certain rules, fail to perform original and miscellaneous examples, given by the teacher, even though more simple and involving the same processes; because before one principle with its applications is understood, another is thrust upon them.

I have endeavored to obviate these difficulties by arranging the work in such order as to test the ability of the pupils upon any given topic, and to furnish a thorough drill. Therefore the distinguishing feature of this work is, that each subject is first treated separately, with at least twenty-five examples, without answers, rules, tables, or suggestions; including every form of rules pertaining to the subject, so that in a class of from twenty-five to thirty, each pupil can have a different example; then a large number and variety of Promiscuous

Examples are given, involving all the preceding rules, and so arranged as to require a practical knowledge of them. The book is divided into four chapters.

The First Chapter is confined to operations in the Fundamental Rules, United States Money, and Compound Numbers; and is designed for Primary and the lower grades of Grammar Schools.

The Second Chapter includes Common and Decimal Fractions; and the Third, Percentage, with its applications, Partnership, Proportion, Square and Cube Roots; and is designed for Grammar Schools.

The Fourth Chapter embraces the whole subject of Arithmetic, and is designed for High School work. This Chapter was prepared by Mr. A. P. STONE, Principal of the Portland High School, to whom I am under special obligations for valuable suggestions, as well as the preparation of this Chapter.

E. WENTWORTH.

PORTLAND, *April, 1878.*

CHAPTER I.

DRILL AND REVIEW EXERCISES IN THE ELEMENTARY RULES OF ARITHMETIC, UNITED STATES CURRENCY AND COMPOUND NUMBERS.

Write the following numbers:

1. Forty million, fifteen thousand, seven hundred.
2. Six hundred three million, four thousand, seventy-five.
3. Twelve billion, thirty million, one thousand, two hundred.
4. Five hundred thousand, eight hundred forty-seven.
5. One hundred million, seven thousand, four hundred.
6. Seven hundred fifty billion, sixty thousand, thirty-four.
7. Three million, four hundred nine thousand, twelve.
8. Two hundred billion, thirteen million, seven thousand.
9. Four hundred five million, three hundred fifty thousand.
10. One hundred sixty thousand, five hundred nineteen.
11. Seven hundred ten million, seven thousand, ten.
12. Eighteen billion, fifty thousand, four hundred one.
13. Two hundred million, ten thousand, nine hundred.
14. Ten billion, forty million, three hundred twelve.
15. One hundred one million, ten thousand, one hundred.
16. Ninety million, five hundred thousand, twenty-three.
17. Ten million, twenty-seven thousand, nine hundred ten.
18. Twelve million, one thousand, eight hundred forty.
19. One hundred sixty million, one hundred thousand.
20. Forty-seven thousand, two hundred eleven.
21. Eleven billion, four million, four hundred thousand.
22. Three hundred fifty million, eleven thousand, forty.
23. Twenty-six billion, seventy-five thousand, one hundred.
24. Four hundred million, ten thousand, five hundred thirty.
25. Seventeen billion, eight million, three hundred five.
26. Five billion, ninety thousand, one hundred eleven.

27.	*28.*	*29.*	*30.*	*31.*
5240172	470249	39862	9142634	538142
367048	9080560	463059	573127	21960
54170	25453	72403	2401840	8243576
7023942	207135	6512920	75064	734205
629405	3401067	4147	3120300	4095478
40372	4721	8094625	625810	1621150

32.	*33.*	*34.*	*35.*	*36.*
28054	1207642	9067890	5756427	4763256
12345	56574	7543267	244604	987635
579635	7966	612343	1135072	903
97054	4346025	5075172	623429	5635140
761456	152409	412746	9421560	263104
16044	647531	2104355	4036357	7256422

37.	*38.*	*39.*	*40.*	*41.*
532769	7689106	545684	4962347	372421
4305175	227531	2307528	230524	59055
8143324	980406	260135	3075125	4920
3607	3409082	9072410	406862	42364
57843	65743	807086	7210490	541647
5420653	6445077	4240734	642067	8205402

42.	*43.*	*44.*	*45.*	*46.*
365463	5234709	981742	863247	199380
4641901	52470	2470545	3277801	7434275
356264	6090514	9402074	9028056	821068
7410457	720086	59217	139208	5932407
99108	8405365	870648	2475416	852064
9102596	74207	5243466	958745	433226

47.	*48.*	*49.*	*50.*	*51.*
6375732	2464725	785634	2069743	150492
509428	3982414	7856340	9507651	7401680
1927109	573528	125401	650264	43172
9056290	491736	954178	7510395	573273
473506	4182647	4035274	422581	9190285
85145	8053825	5603480	634076	475047

52.	*53.*	*54.*
8147265215	705421946	40057100425
2538627431	5186049	5184241162
55.	*56.*	*57.*
5204140053	231462324	10435127315
295224327	194040575	6380743646
58.	*59.*	*60.*
9360402180	521460132	15000314031
6875028407	250382409	2138405118
61.	*62.*	*63.*
2244270120	850075426	95100365400
807422053	509480098	9247087502
64.	*65.*	*66.*
4000000000	342164312	87043143235
2105250047	87328170	194528369
67.	*68.*	*69.*
6112431263	415316400	75120351312
5370643198	327807749	65487274504
70.	*71.*	*72.*
7501324132	621123231	33530245110
924165324	130591655	23915637528
73.	*74.*	*75.*
5210425231	710942162	64500002190
3842178324	92687085	927436244
76.	*77.*	*78.*
1002010101	127310213	99234040512
409607512	78506405	5471362476
79.	*80.*	*81.*
3123400123	500500500	11215131200
634569342	37537137	4427365485