

**GRADED WORK IN
ARITHMETIC.
FOURTH YEAR.
INTERMEDIATE GRADES**

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Graded Work in Arithmetic. Fourth Year. Intermediate Grades by S. W. Baird

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S. W. BAIRD

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GRADED WORK

■

ARITHMETIC

BY

S. W. BAIRD

PRINCIPAL FRANKLIN GRAMMAR SCHOOL, WILKESBARE, PA.

FOURTH YEAR

INTERMEDIATE GRADES

NEW YORK ·· CINCINNATI ·· CHICAGO
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NOTE

IN the "Fourth Year," designed for intermediate grades, review of the third year's work is followed by exercises in numbers of any magnitude. The fundamental operations are more formally treated, more advanced work is given in fractions, — common and decimal, — and business applications, including bills and accounts, are further extended.

In connection with denominate numbers some simple geometrical conceptions are developed, and the problems bearing thereon explain the applications to such practical measurements as carpet laying, plastering, etc.

The drills, which are continued in this book, are designed to assist the pupil to attain skill in computing, and habits of accuracy; and the problems are presented in a form calculated to develop clear reasoning power.

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I. ORAL WORK

Read the following numbers :

	<i>a.</i>	<i>b.</i>	<i>c.</i>	<i>d.</i>
1.	462	9004	32,647	380,067
2.	506	7605	46,802	580,692
3.	1463	9042	38,069	400,089
4.	3407	3006	84,003	790,106
5.	8049	8976	90,004	1,381,601

II. WRITTEN WORK

Write the following in columns of ten numbers each, and find the sum :

1. Two thousand 3 hundred fifty-nine ; three hundred twenty-nine ; nine hundred six ; seven thousand thirty-six ; eight thousand 7 hundred forty-nine ; 29 thousand 3 hundred ; 8 hundred twenty thousand two hundred nine ; seven hundred two ; 6 hundred thousand ; seventy-nine.

2. Five thousand fifty ; nine hundred thousand sixty ; 801 thousand forty-seven ; sixty thousand 3 hundred four ; seven hundred thousand ; 90 thousand 9 hundred nine ; 79 thousand 3 hundred ; 8 thousand four hundred ; 999 thousand 9 hundred ; one million three hundred thousand thirty-nine.

LESSON 2

I. ORAL WORK

1.	2.	3.	4.	5.	6.	7.	8.
60	41	54	68	56	71	70	44
<u>-49</u>	<u>-28</u>	<u>-37</u>	<u>-49</u>	<u>-18</u>	<u>-29</u>	<u>-57</u>	<u>-37</u>
9.	10.	11.	12.	13.	14.	15.	16.
45	34	65	53	54	90	46	150
<u>-18</u>	<u>-17</u>	<u>-36</u>	<u>-46</u>	<u>-18</u>	<u>-28</u>	<u>-27</u>	<u>-81</u>

II. ORAL WORK

1.	2.	3.	4.	5.	6.	7.	8.	9.
24	14	31	25	43	45	102	106	109
<u>$\times 3$</u>	<u>$\times 2$</u>	<u>$\times 3$</u>	<u>$\times 3$</u>	<u>$\times 4$</u>	<u>$\times 4$</u>	<u>$\times 4$</u>	<u>$\times 4$</u>	<u>$\times 5$</u>
10.	11.	12.	13.	14.	15.	16.	17.	18.
210	350	320	304	410	509	710	806	810
<u>$\times 3$</u>	<u>$\times 4$</u>	<u>$\times 5$</u>	<u>$\times 5$</u>	<u>$\times 6$</u>	<u>$\times 6$</u>	<u>$\times 8$</u>	<u>$\times 8$</u>	<u>$\times 9$</u>

III. WRITTEN WORK

Add:

- $2,878 + 248 + 569 + 92 + 540 + 3,378 + 8,306$
- $3,838 + 839 + 256 + 63 + 705 + 3,001 + 7,006$
- $4,726 + 1,952 + 2,467 + 903 + 875 + 63 + 906$
- $859 + 748 + 3,641 + 8,201 + 869 + 3,064 + 9,005$

IV. WRITTEN WORK

Subtract:

- | | | | |
|----|--------------|----------------|----------------|
| | a. | b. | c. |
| 1. | 789 from 900 | 6432 from 8001 | 3780 from 5460 |
| 2. | 634 from 743 | 3862 from 5000 | 6543 from 7032 |
| 3. | 386 from 897 | 7206 from 8427 | 8999 from 9000 |

I. ORAL WORK

Divide:

	<i>a.</i>	<i>b.</i>	<i>c.</i>	<i>d.</i>	<i>e.</i>
1.	$26 \div 2$	$38 \div 2$	$68 \div 2$	$100 \div 2$	$612 \div 2$
2.	$36 \div 3$	$58 \div 2$	$94 \div 2$	$120 \div 3$	$612 \div 3$
3.	$34 \div 2$	$76 \div 2$	$78 \div 2$	$210 \div 3$	$612 \div 6$

II. ORAL WORK

Divide:

	<i>a.</i>	<i>b.</i>	<i>c.</i>	<i>d.</i>	<i>e.</i>
1.	$140 \div 2$	$408 \div 4$	$168 \div 2$	$396 \div 6$	$384 \div 4$
2.	$144 \div 3$	$348 \div 4$	$168 \div 4$	$156 \div 2$	$384 \div 6$
3.	$276 \div 2$	$348 \div 3$	$168 \div 8$	$156 \div 3$	$324 \div 2$
4.	$408 \div 2$	$420 \div 4$	$396 \div 3$	$384 \div 2$	$324 \div 3$

III. WRITTEN WORK

Add:

1.	2.	3.	4.
\$254.48	\$94.00	\$468.57	\$927.48
7.56	6.85	32.98	76.44
.95	.78	6.88	7.07
38.20	275.23	.74	753.00
<u>808.73</u>	<u>583.17</u>	<u>432.39</u>	<u>768.19</u>

IV. WRITTEN WORK

Multiply:

	<i>a.</i>	<i>b.</i>	<i>c.</i>	<i>d.</i>
1.	121 by 14	427 by 32	387 by 29	372 by 64
2.	349 by 26	563 by 43	672 by 37	726 by 68
3.	729 by 18	726 by 38	763 by 73	397 by 87

I. ORAL WORK

1. At \$.05 each how many melons can you get for \$.45?
2. If \$.45 is equally divided among 5 boys, how many cents will each boy receive?
3. A man paid \$45 for 5 calves. How much was that apiece?
4. At \$5 each how many sheep can be bought for \$45?
5. At \$.05 per quart how many quarts of berries can I get for \$45?

II. ORAL WORK

Divide:

	<i>a.</i>	<i>b.</i>	<i>c.</i>
1.	$$.60 \div $.05$	$$.72 \div $.08$	$63 \div 7$
2.	$$.60 \div 5$	$$.72 \div 8$	$63 \div 7$
3.	$60 \div 5$	$72 \div 8$	$.63 \div .07$
4.	$60 \div 5$	$72 \div 8$	$.63 \div 7$
5.	$60 \div .05$	$72 \div .08$	$63 \div .07$

III. WRITTEN WORK

Find differences between:

	<i>a.</i>	<i>b.</i>
1.	29384 and 14967	48000 and 33672
2.	46789 and 27306	72010 and 29846
3.	79064 and 8706	59604 and 31842