# KEY TO RAUB'S COMPLETE ARITHMETIC

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Key to Raub's Complete Arithmetic by Albert N. Raub

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## **ALBERT N. RAUB**

# KEY TO RAUB'S COMPLETE ARITHMETIC



## ·KEY

TO

## RAUB'S

## COMPLETE ARITHMETIC.

BY

ALBERT N. RAUB, A.M.,

PRINCIPAL OF CENTRAL STATE NORMAL SCROOL, LOCK HAVEN, PA., AND AUTHOR OF RAUD'S "ARITHMETICS," HACE'S "READERS," "PLAIN EDUCATIONAL TALES," ETC.



PORTER & COATES, PHILADELPHIA.

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### PREFACE.

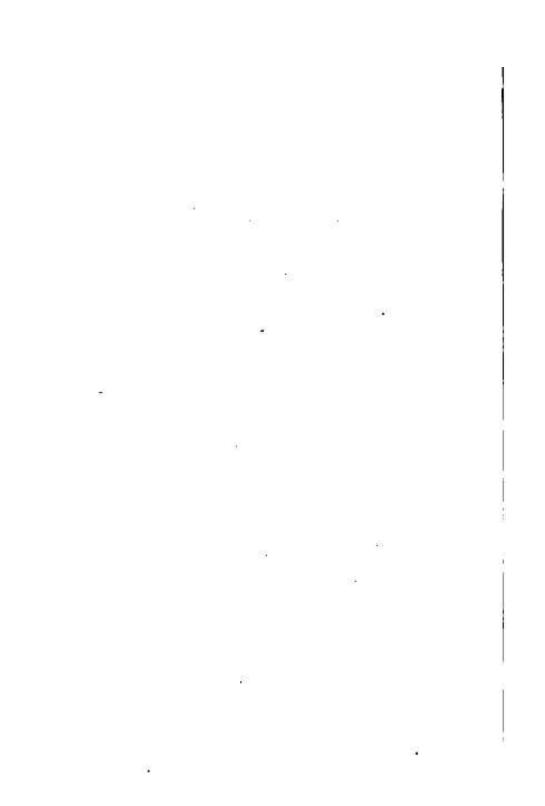
THE plan of this Key is such as to need but little explanation. The solutions will be found numbered and paged to correspond with the problems in the Complete Arithmetic. In some cases suggestions only are given, in preference to full solutions.

The Author would advise that those who use the Key use it as little as possible in the way of gaining help. They should use it rather in the way of comparing their own solutions with those in the book. In this manner it may be useful to either teacher or pupil, just as an instructor is useful in giving hints or verifying solutions and results.

A. N. R.

STATE NORMAL SCHOOL, LOCK HAVEN, PA., JAN. 1, 1879.

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## KEY

TO

## RAUB'S COMPLETE ARITHMETIC.

#### ADDITION.

PAGE 23.

```
The answers only to these questions are given :
(19.) 940932,
                   (22.) 872926.
                                     (25.) 13812.
(20.) 1129236.
                   (23.) 16301.
                                     (26.) 12422.
 (21.) 1114330.
                   (24.) 16376.
                                     (27.) 14079.
(28.) $6420 - A's.
                       (29.) $3500 - Cost of house.
      5130 - B's.
                                      " " farm.
                              7800 -
      11550 = C's.
                             11300 -
                                     " store.
                             14800 --
                                         " mill.
     $23100 - All.
                           $37400 - "
(30.) 327 miles.
                             349 miles.
     462
                              621
     194
                              347
     983 miles. Distance E. 1317 miles. Distance W.
     983 mi. + 1317 miles = 2300 miles. Ans.
(32.) 21 degrees below.
     105
                 above.
     126 degrees - Difference.
(33.) 911 miles E. of Chicago.
```

" W. of Chicago.

1312 miles - Dis. apart.

1 \*

(34.) 1312 miles E. of Omaha.

1961 " W. of Omaha.

3273 miles - Dis. from New York to San Francisco.

831080 - Estate.

### SUBTRACTION.

### PRACTICAL PROBLEMS, PAGE 30.

(9.) \$6720, Farm.
3740, House.
10160, Store.
\$20620 - Cost of all.
\$25000 - \$20620 - \$4380 - Gain.

\$2500 - \$1745 - \$755. Ans.

3.5

(12.) \$7334 <u>8627</u> \$15961 - \$12500 = \$3461. Ans. (13.) 225  $\frac{217}{640-442-198}$ . Remainder. 500-198=302. Ans.

(14.) 720 lbs. 327 lbs. 617 " 445 " 1337 lbs. 772 lbs. Amt. sold. 1337 lbs. -772 lbs. - 565 lbs. Ans.

#### MULTIPLICATION.

PRACTICAL PROBLEMS, PAGE 37.

- (17.) 91 miles + 85 miles = 176 miles, distance they approach each other in one day.
  24 × 176 miles = 4224 miles,
  4500 miles = 4224 miles = 276 miles. Ans.
- (18.) 75 miles + 85 miles 160 miles, distance they recede from each other in one day.
  15 × 160 miles 2400 miles. Ans.
- (19.) 204 miles 127 miles 77 miles, distance gained in 1 day.

9 × 77 miles = 693 miles. Ans.

### DIVISION.

#### PAGE 40.

19. If they hire the horse out for 25 days at 4 dollars a day, they receive 25 times 4 dollars, or 100 dollars; if they sell him for 120 dollars, they receive altogether 100 dollars and 120 dollars, or 220 dollars; hence, they gain on the horse 220 dollars minus 160 dollars, which is 60 dollars, or 12 dollars each.