ROBINSON'S SHORTER COURSE: KEY TO THE COMPLETE ARITHMETIC: FOR TEACHERS AND PRIVATE LEARNERS

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Robinson's Shorter Course: Key to the Complete Arithmetic: For Teachers and Private Learners by Daniel W. Fish

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DANIEL W. FISH

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Bobinson's Shorter Course.

K E Y

TO THE

COMPLETE ARITHMETIC.

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TEACHERS AND PRIVATE LEARNERS.



IVISON, BLAKEMAN, TAYLOR & CO., NEW YORK AND CHICAGO.

ROBINSON'S

SHORTER COURSE.

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ARITHMETICAL PROBLEMS. ORAL and WRITTEN.
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Arithmetic, OBAL and WRITTEN, usually taught in THREE books, is now offered, complete and thorough in ONE book, "THE COMPLETE ARITHMETIC."

* This Complete Anythmetic is also published in two volumes. PART &.
and PART II. are each bound separately, and in Cloth.

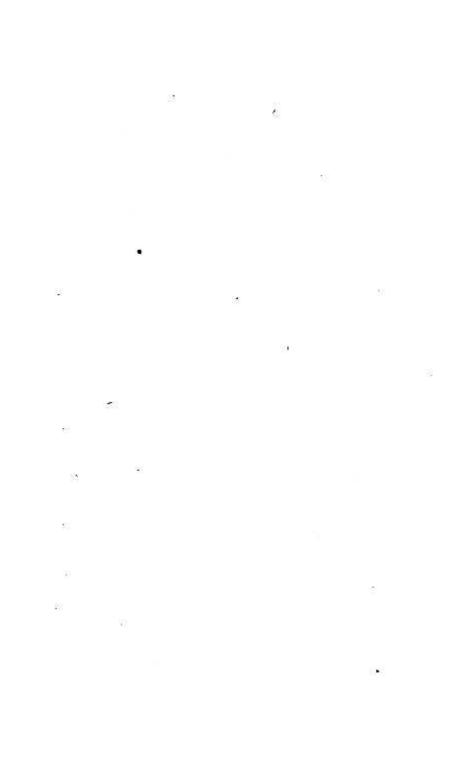
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GRADUATE SCHOOL OF VOLICATION

150 act \$ 1 (130)



A KEY to any mathematical work is not indispensably necessary to many teachers, but with the multiplicity of duties ordinarily devolving upon the teacher, time cannot always be had to answer or solve all questions that may be presented by the pupil. Hence a key becomes a great convenience, if not a necessity, in lessening the labor, and saving the time of the teacher, by presenting the shortest solution, and the best form of analysis, as a standard to which the pupil should be required to conform.

As this key has not been prepared for the pupil, but for the teacher and private learner, solutions of all the oral, and of many of the easier written examples are not included, and the operations are much abbreviated, the partial or intermediate results being often omitted, and the processes, for the most part, indicated by signs.



KEY

TO THE

COMPLETE ARITHMETIC.

Article 113.

- 1. (\$1500-\$960.90) ×3=\$1617.30, Ans.
 - 2. $($53.62 $46.45) \times 7 = 50.19 , Ans.
 - 8. $(\$9.12 \times 388) \$2709 = \$829.56$, Ans.
 - 4. \$5670-(\$7.25 × 365)=\$3023.75, Ans.
 - 5. 126720—108800—17920, Ans.
 - 6. 23458-20580=2878, Ans.
 - 7. $620 \times 60 = 37200$, Ans.
- 8. 542 × 279 = 151218, Ans.
- 9. \$15760-\$8561.25=\$7198.75, Ans.
- \$3246+\$10938+\$4617=\$18801, whole;
 \$10938+\$4617=\$15555, farm and stock.
- 11. (\$184.50 × 48) (\$4.80 × 130) = \$8232, Ans.
- 12. \$1150—(\$9×125)=\$25, loss.
- 13. 82050-5000=77050, Ans.
- 14. (97000-6000) +1500=92500, Ans.
- 15. (\$73.46-\$3.96)+\$1645=\$1714.50, Ans.
- 16. \$25592.32+(\$1759.50 × 10)=\$43187.32, Ans.

Art. 145.

- 1. (2712÷113) × 205=4920, Ans.
- 2. 2124 ÷ 236 = 9, Ans.
- 4. 36+114×5640-3007=394950, Ans.
- 5. $30128 \div (4200 \div 75) = 538$, Ans.
- 6. 204 × 878 ÷ 378 204 = 443 144, Ans.
- 7. \$30.76-(\$12.36+\$7.62)=\$10.78, Ans.
- 8. (746×23) — $(18975 \div 25)$ =16399, Ans.
- 9. (\$3000-\$925.60)-\$2046.25=\$28.15, Ans.
- 10. $(75 \text{ cts.} \times 1600) \div 40 \text{ cts} = 3000 \text{ lb.}$
- 11. (\$3376.25-\$638.75) + 365=\$7.50, Ans.
- 12. $170352 \div 4 = 42588$, Ans.
- 18. (17605 + 5) × 204 = 718284, Ans.
- 14. $(\$133 \times 28) \div (\$1500 \$968) = 7$ yr., Ans.
- 16. 166656÷3=55552, Ans.
- 16. 12624×4=50496, Ans.
- 17. 43950÷6=7325, Ans.
- 18. 91864 × 9=826776, Ans.
- 20. (\$.60 + \$.78 + \$.90) + 3 = \$.76, Ans.
- 21. $(\$104 + \$97 + \$128 + \$99 \div 4 = \$107$, Ans.
- 22. (\$1500 + \$2976 + \$1895) + 3 = \$2123 \, Ans.
- 23. \$487.20 ÷ (\$25 \$8.75 + \$4.65) = 42 weeks, Ans.
- 24. (\$4578-\$1642) ÷ 8=\$367, Ans.
- 25. (\$75 × 86 + \$54 × 54) -\$7560 = \$1806, Ans.
- 26. \$6780 + \$8200 + \$8306 + (\$8306 \$1345) = \$30247.

32.
$$(240 \div 5 + 10 + 15) \times 3 = 24$$
 boxes, Ans.

34.
$$(269-3\div14)+37-48)\times36=288$$
, Ans.

35.
$$(529 \times 6) \div 1587 = 2$$
, Ans.

36.
$$(15125 \div 3025 \times 48) \div 24 = 10$$
, Ans.

Art. 171.

10.		10778			14877	
3281	3	9843	10353 1		10353	
2805	3	985	9048	3 2	4524	
476	1	476	130	3	3915	
459	1	459	1218	3 2	609	8
Ans. 17	27	459	Ans. 8'	7 7	609	1.27
11.		1116	J 10/	110	1488	
620	1	620	Ans. 124	112	1488	
496	1	496				
124	4.	496				
		5184		(6)	6914	
396	13	5148	36	192	6912	00
396	11	36	36	7 18	3,	Ans.
3 33	20 J.E	272 TO 18	- 55	20		