

**A KEY CONTAINING THE
ANSWERS TO THE EXAMPLES IN
THE INTRODUCTION TO ALGEBRA
UPON THE INDUCTIVE METHOD
OF INSTRUCTION**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649314751

A Key Containing the Answers to the Examples in the Introduction to Algebra Upon the Inductive Method of Instruction by Warren Colburn

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd.
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

WARREN COLBURN

**A KEY CONTAINING THE
ANSWERS TO THE EXAMPLES IN
THE INTRODUCTION TO ALGEBRA
UPON THE INDUCTIVE METHOD
OF INSTRUCTION**

© A

KEY

CONTAINING THE

ANSWERS TO THE EXAMPLES

IN THE

INTRODUCTION TO ALGEBRA

UPON THE

INDUCTIVE METHOD OF INSTRUCTION.

BY WARREN COLBURN, A M.

STEREOTYPED AT THE BOSTON TYPE AND STEREOTYPE FOUNDRY

BOSTON:

PUBLISHED BY HILLIARD, GRAY & CO.

1833.

Educ. T / 28.33.287

HARVARD COLLEGE LIBRARY
GIFT OF
GEORGE ARTHUR CLIMPTON
JANUARY 25, 1924

DISTRICT OF MASSACHUSETTS, TO WIT:

District Clerk's Office.

BE IT REMEMBERED, That on the eleventh day of May, A. D. 1827, in the fifty-first year of the Independence of the United States of America, HILLIARD, GRAY, LITTLE, AND WILKINS, of the said district, have deposited in this office the title of a book, the right whereof they claim as proprietors, in the words following, to wit:

"A Key, containing the Answers to the Examples in the Introduction to Algebra upon the Inductive Method of Instruction. By WARREN COLBURN, A. M."

In conformity to the Act of the Congress of the United States, entitled, "An Act for the encouragement of learning, by securing the copies of maps, charts, and books, to the authors and proprietors of such copies, during the times therein mentioned;" and also to an act, entitled, "An Act supplementary to an act, entitled, An Act for the encouragement of learning, by securing the copies of maps, charts, and books, to the authors and proprietors of such copies during the times therein mentioned; and extending the benefits thereof to the arts of designing, engraving, and etching historical and other prints."

JNO. W. DAVIS,
Clerk of the District of Massachusetts.

K E Y.



I.

- 1 & 2. See Book.
3. Saddle \$13, horse \$117.
4. A's share \$82, B's \$246, C's \$328.
5. The first 6, the second 12, the third 18, and the fourth 24 cents.
6. The share of the widow was 4000 crowns; that of the son 2000, and that of the daughter 1000.
7. A paid \$317; B ~~\$291~~; C \$1268; and D \$2219.
- 8 & 9. See Book.
10. 12 of each sort.
11. 30 days.
12. The first 13 days, the second 39, and the third 78.
13. 3 oxen, 9 cows, and 18 calves.
14. 22 barrels.
15. 11 days.

II.

- 1 & 2. See Book.
3. \$104.
4. See Book.
5. 80 trees.
6. 96 sheep.
7. \$160.
8. 39 geese.
9. \$120.
10. 72 bushels.
11. 102½ loads.
12. 84 years.

13. £11. 9s. 9 $\frac{1}{4}$ d.
14. 80 scholars.
15. 72 lb.
16. 40 inches.
17. A's 15, B's 39 years.
18. See Book.
19. The first \$120, the second \$80, and the third \$90.
20. 48 $\frac{9}{16}$ bushels of oats, 34 $\frac{1}{4}$ bu. barley, 17 $\frac{1}{8}$ bu. rye.
21. The first has 24, the second 16.
22. They received £56, £35, and £7, respectively.
23. \$192, \$448, \$320, respectively.
24. Their sums were \$140, \$90, \$190, respectively.

III.

1. See Book.
2. Horse \$164, and chaise \$136.
3. Son's share \$7175, daughter's share \$4825.
4. See Book.
5. 35, 50, and 74 yards, respectively.
6. The wife had \$14250, the elder son \$16250, the younger son \$11250, the daughters each \$7750.
7. The numbers were 439 and 504.
8. They received 12, 10, 7, and 3 shillings, respectively.
9. Brandy 29, wine 44, and water 73 gallons.
10. See Book.
11. 22 years.
12. He had 6 shillings, and there were 14 beggars.
13. Their ages were 10, 14, 18, 22, 26, and 30 years.
14. £14, £24, £38, respectively.
15. 48 pounds.
16. See Book.
17. The whole fortune was 28800 crowns. The shares were 13400, 8800, and 6600 crowns, respectively.
18. The whole fortune was 12000 livres. The shares were 3000 livres each.

19. 128 lb. copper, 84 lb. tin, and 76 lb. lead.
20. 24000 men.
21. 80.
22. 60 years.
23. A £27, and B £12.
24. 85 gallons of wine and 35 of cider.

IV.

1. See Book.
2. Their ages were 36 and 54 years.
3. £24, £60, and £192, respectively.
4. See Book.
5. 3 cents apiece for the pears, and 5 for the oranges.
6. 6 cents for oranges, and 3 cents for lemons.
- 7&8. See Book.
9. The man's age 45 years, and the wife's 15.
10. 147 sheep.
11. 20 days.
12. A lost £96, and B £48.
13. 42 shillings.
14. A had \$20, and B \$4.
15. A \$2440, and B \$980.
16. \$10.
17. 3, 9, and 29, respectively.
18. 9, 11, and 14 crowns, respectively.
19. Flour \$4, and butter \$6.
20. Wine \$1.50, and brandy \$1.85 per gallon.
21. Oxen \$43, cows \$25.
22. 10 of each sort.
23. See Book.
24. They had 13 and 22 guineas respectively.
25. 18 barrels at \$8, and 27 barrels at \$5.
26. 5 oxen and 10 cows.
27. See Book.

28. The less 62, and the greater 116.
29. See Book.

V.

- 1, 2, & 3. See Book.
4. Horse \$100, chaise \$150.
5. Their ages were 18 and 28 years.
6. 150 and 180 miles.
7. Saddle \$12, and horse \$126.
8. Hare 280 rods, greyhound 320.
9. \$26, \$10, \$19, and \$81, respectively.
10. 15 barrels of beer, and 21 of cider.
11. The first £62. 4s. 5½d.; the second £22. 4s. 5½d.
12. Man 24 years, wife 16.
13. See Book.
14. 20 cards.
15. \$63, and \$120, respectively.
16. 8 bushels of wheat, and 12 of rye.
17. 65.
18. Time past 54 years, and 45 to come.
19. 20 and 30.
20. \$38.
21. Man's age 56 years, and wife's 40.

VI.

- 1 & 2. See Book.
3. A began with \$410, and B with \$205.
4. A \$6½, and B \$13½.
5. 18 and 36.
6. See Book.
7. Horse \$152, chaise \$189.
8. A had \$45, and B \$75.
9. \$126.

VII.

1. A cut off 48, and B 28.

2. 13 deals.
3. 16 and 24.
4. A's share \$450, B's \$270.
5. Greater \$108, less \$60.
6. A paid \$10.805; B \$11.148; C \$10.587; and D \$10.46.
7. Cover 20 oz., second cup 16 oz.
8. 36 passengers.
9. From A to B 72 miles; from B to C 14; from C to D 48 miles.
10. \$4.80.
11. They paid \$60, \$50, and \$30, respectively.
12. The men received £25, and the women £21.
13. 2000 sheep.
14. A put in \$215, B \$145, and C \$305.
15. 53 and 32.
16. 43 and 24.
17. Sugar 20 cents per pound, lemons 3 cents each.
18. Oranges 6 cents, and lemons 4 cents each.
19. 24.
20. 120 bushels.
21. \$1400.
22. $11\frac{1}{4}$ pence.
23. The parts are 28 and 32.
24. The parts are 50 and 35.
25. The parts are 24 and 76.
26. The parts are 32 and 16.
27. 8 received 6 pence apiece, and 12 received 16 pence apiece.
28. 60 guineas and 148 crowns.
29. 27 in the less, and 81 in the greater.
30. Barley 45 pence, and oats 30 pence per bushel.
31. 120 of each sort.
32. $2\frac{1}{2}$ hours.
33. $2\frac{1}{4}$ days.