BRADBURG'S CATON'S MATHEMATICAL SERIES: KEY OF SOLUTIONS TO THE WRITTEN EXAMPLES IN BRADBURY'S PRACTICAL ARITHMETIC

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649621712

Bradburg's Caton's Mathematical Series: Key of Solutions to the Written Examples in Bradbury's Practical Arithmetic by William F. Bradbury

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

WILLIAM F. BRADBURY

BRADBURG'S CATON'S MATHEMATICAL SERIES: KEY OF SOLUTIONS TO THE WRITTEN EXAMPLES IN BRADBURY'S PRACTICAL ARITHMETIC



· KEY

OF

SOLUTIONS TO THE WRITTEN EXAMPLES

IN

BRADBURY'S

PRACTICAL ARITHMETIC.

BY

WILLIAM F. BRADBURY, A.M.,

HEAD MASTER OF THE CAMBRIDGE LATIN SCHOOL. AUTHOR OF A SERIES OF MATHEMATICAL TEXT BOOKS.

THOMPSON, BROWN, AND CO. BOSTON. CHICAGO.

Eduat 118.95.234



Copyright, 1879, 1895.
By WILLIAM F. BRADBURY.

Emibrisity Press: John Wilson and Son, Cambridge, U.S.A.

PREFACE.

EDUCATION is a drawing out of the intellectual powers. No study is better adapted to this drawing out than Arithmetic. But to make it most useful for this purpose, neither book nor teacher should do for a pupil what he can do for himself. This Key, therefore, is not designed for the use of pupils.

In the multiplicity of their labors some teachers have not the time to perform the numerical work required for a complete solution of the problems given to a class; some desire assurance that their own work is correct; comparatively few find at once the shortest and best methods of solving the various problems; for such this Key has been prepared.

To teach pupils to take the shortest road in the solution of problems is one of the most difficult, as well as one of the most important things for the teacher of Arithmetic to do. Most seem bound to walk with great labor up hill, only for the sake of walking down again. In this Key great care has been taken to find the shortest method of solution.

The principle of cancellation has been introduced wherever it was possible without making the process obscure. Much useless labor has been saved, especially in working the examples given in the Appendix, by removing perfect powers from under the radical sign. (See pp. 153-155, Exs. 604, 606, 611, 614, 622. If this process cannot be made plain to the pupil, he can work the example without removing such factors.)

In most of the examples the answers have been given in accordance with the last clause of Note 2, Art. 318; though generally the sign + or — has been attached when the exact answer was greater or less than the given answer. In a few instances the answers have been left with mills and decimals of mills.

It has not been thought best to give the numerical work in the simpler problems; for example, in the four Simple Rules, many in Common Fractions, in Decimals, the Metric System, Square and Cube Root.

W. F. B.

CAMBRIDGE, MASS., Jan. 1, 1880.

KEY OF SOLUTIONS

TO THE

WRITTEN EXAMPLES IN BRADBURY'S PRACTICAL ARITHMETIC.

NOTATION.

Page 6-7.

26.	638	37.	946514925	47.	4016007.04
27.	356	38.	6015007400	48.	17017017.017
28.	653	39.	5651406	49.	1001001100.01
29.	563	40.	74000000	50.	11000011000.011
30.	365	41.	63014700	51.	16006600.06
31.	651	42.	2.5	52.	1001001001.01
32.	1651	43.	0.52	63.	10010010010.1
33.	42554	44.	60.04	54.	555555,055
34.	816200	45.	0.204	55.	1600.16
35.	6104276	46.	800.014	56.	2020.02
36.	306502	uniferbia.	250000-100000000000000000000000000000000	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

ADDITION.

Page 10-18.

<i>29.</i> 988	89. 388	52. 458.56
30. 1227	43. 1849	53. 77379
31. 955	44. 17.99	54. 65248
32. 9279	45. 18752	55. 52.579
33. 8999	46. 168.997	56. 135437
34. 11636	47. 1669	57. 9212.662
35. 99885	48. 2331	58. 105171
36. 9774	49. 2379.7	59. 2456.137
37. 7665	50. 191955	60. 42.436
38. 8649	51. 48043	61, 427,458

2 KEY OF SOLUTIONS. [Page 13-24.

62.	\$379.52	80.	2254.22	99.	482818	
63.	197008	81.	520.062	100.	514698	
64.	\$206.78	88.	6899168	101.	485044	
65.	131.501	84.	\$504.20	102.	515826	
66.	94279	85.	\$61.95	103.	519845	
67.	195061	86.	\$ 7608	104.	590037	
68.	286900	87.	1524553000	105.	589891	
69.	214362	88.	8 84571886	106.	468785	
70.	\$ 230.846	89.	\$ 6506	107.	365	
71.	53442	90.	43758310.901	108.	33648	
72.	1054.46	91.	\$18828.84	109.	27420	
73.	77347	92.	\$574.05	110.	\$10110.20	
74	1743	93.	\$2454.63	111.	319171	
75.	889.596	94.	\$10477	112.	\$31762	
76.	84788.	95.	66465 sq. m.	113.	\$27468867	
77.	31116	96.	121000 вд. ш.	114.	43221746	Ť
78.	83619	97.	4700745	115.	\$1828.40	
79.	84000500.206	98.	13922000	116.	1995	

SUBTRACTION.

Page 21 - 26.

		1.0	Po		
24.	1512	1 41.	20304.73	56.	8865.881
25.	6261	42.	83355	57.	6623052
26.	5021	43.	4181046	58.	675.686
27.	1440	44	1112.081	59.	6408360
28.	4112	46.	2817	60.	2552
29.	3201	47.	1128	61.	46601
30.	5310	48.	515977	62.	31,3
31.	\$1412	49.	1.724	63.	3981
32.	284556	50.	15.803	64.	232
33.	\$2264	51.	50.766	65.	1001
37.	354.167	52.	118	66.	2906
38.	4248657	53.	843.51	67.	787.914
39.	88.996	54.	35249	68.	5966.9286
10.	1310174	55.	5357	69.	\$81.68

70.	\$1788.41	1 79.	\$787.45	88.	\$ 277.77
71.	8319.794	80.	449	89.	13758.06
72.	3485.166	81.	349000	90.	\$177.26
73.	5714.87	82.	4692197.934	91.	195.543
74.	1846,935	83.	240	92.	\$ 125.77
75.	1060.061	84.	\$7271.69	93.	779
76.	9.994 .	85.	1906521	94.	146.882
77.	0.39	86.	\$3593.40	95.	92760000 m.
78.	\$17.77	87.	45558897	96.	4. Rem. 11920 sq. m.

MISCELLANEOUS EXAMPLES.

97.	186	101.	202	105.	\$10075
98.	1717 m.	102.	\$1815.56	106.	\$1969499
99.	84.16	103.	44075	107.	32218478
100.	385 sq. m.	104.	\$15,10	108.	49940856

MULTIPLICATION.

Page 31 - 3R

		Fage	aT - 90'	
19.	25812	j 47. 195	58595 69.	792369569000
20.	188802	48. 106	64,372 70.	3794.4
21.	431712	49. 845	97978 71.	677760
23.	69978592	50. 233	6 72.	19041
29.	7066836168	51. \$ 12	58 73.	15880580
30.	8854620071	52. 305	3 m. 76.	2937600000
31.	3765330	53. 281	4 77.	9039155000000
32.	14806800	56. 896	57 80.	61543497600
33.	4401335	57. 843	96000 81,	5621859600
34	4078098	58. 362	74800 82.	245108.5
40.	12474.72	59. 437	82000 83.	3414.96
41.	2893704	60. 470	84.	3139972
42.	3140228	61. 6890	0000 85.	\$ 1227.45
43.	6141.72	62. 9846	6000 86.	\$104
44.	3655211	63, 8469	9700000 87.	\$473.86
45.	3197775	64. 879	54000000 88.	\$ 266
46.	59807396	68. 2546	58765200 <i>89</i> .	\$1425