KEY TO SCHOOL CLASS BOOK OF ARITHMETIC. PART II

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649456024

Key to School Class Book of Arithmetic. Part II by Barnard Smith

Edited by Trieste Publishing Pty Ltd.
Cover @ 2017

www.triestepublishing.com

BARNARD SMITH

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Trieste

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PART II.

Cambridge:
PRINTED BY C. J. CLAY, M.A.
AT THE UNIVERSITY PRESS.

KEY

TO

SCHOOL CLASS BOOK

OF

ARITHMETIC.

PART II.

BY

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Cambridge and London:
MACMILLAN AND CO.
1865.

SOLUTIONS, &c.

PART II.

GREATEST COMMON MEASURE.

Ex. I. Page 4.

1. (1) $15)24(1$, $15)9)15(1$, $9)6)9(1$, $6)8)6(2$, 6.

$\therefore$ 3 is g. c. m.

(2) $20)36(1$, $20)16)20(1$, $16)4)16(4$, 16.

$\therefore$ 4 is g. c. m.

(3) $35)75(2$, $70)5)35(7$, 35.

$\therefore$ 5 is g. c. m.

(4) $30)44(1$, $30)14)30(2$, $28)2)14(7$, 14.

$\therefore$ 2 is g. c. m.

(5) $42)81(1$, $42)39)42(1$, $39)3)39(13$, 39.

$\therefore$ 3 is g. c. m.

(6) $63)147(2$, $126)21)63(3$, 63.

$\therefore$ 21 is g. c. m.

(7) $90 \overline{)105} (1$
$\underline{90}$
$15 \overline{)90} (6$
$\underline{90}$

$\therefore$ 15 is g. c. m.

(8) $325 \overline{)403} (1$
$\underline{325}$
$78 \overline{)325} (4$
$\underline{312}$
$13 \overline{)78} (6$
$\underline{78}$

$\therefore$ 13 is g. c. m.

(9) $348 \overline{)1024} (2$
$\underline{696}$
$328 \overline{)348} (1$
$\underline{328}$
$20 \overline{)328} (16$
$\underline{20}$
128
$\underline{120}$
$8 \overline{)20} (2$
$\underline{16}$
$4 \overline{)8} (2$
$\underline{8}$

$\therefore$ 4 is g. c. m.

(10) $132 \overline{)189} (1$
$\underline{132}$
$57 \overline{)132} (2$
$\underline{114}$
$18 \overline{)57} (3$
$\underline{54}$
$3 \overline{)18} (6$
$\underline{18}$

$\therefore$ 3 is g. c. m.

(11) $532 \overline{)1274} (2$
$\underline{1064}$
$210 \overline{)532} (2$
$\underline{420}$
$112 \overline{)210} (1$
$\underline{112}$
$98 \overline{)112} (1$
$\underline{98}$
$14 \overline{)98} (7$
$\underline{98}$

$\therefore$ 14 is g. c. m.

(12) 235) 371 (1
235
136) 235 (1
136
99) 136 (1
99
37) 99 (2
74
25) 37 (1
25
12) 25 (2
24
1) 12 (12
12

∴ 1 is g. c. m.

(13) 576) 1088 (1
576
512) 576 (1
512
64) 512 (8
512

∴ 64 is g. c. m.

(14) 1905) 3175 (1
1905
1270) 1905 (1
1270
635) 1270 (2
1270

∴ 635 is g. c. m.

(15) 858) 996 (1
858
138) 858 (6
828
30) 138 (4
120
18) 30 (1
18
12) 18 (1
12
6) 12 (2
12

∴ 6 is g. c. m.

(16) 2209) 7921 (3
6627
1294) 2209 (1
1294
915) 1294 (1
915
379) 915 (2
758
157) 379 (2
314
65) 157 (2
130
27) 65 (2
54
11) 27 (2
22
5) 11 (2
10
1) 5 (1
5

∴ 1 is g. c. m.

(17) 2145) 8471 (1
2145
1326) 2145 (1
1326
819) 1326 (1
819
507) 819 (1
507
312) 507 (1
312
195) 312 (1
195
117) 195 (1
117
78) 117 (1
78
39) 78 (2
78

∴ 39 is g. c. m.

∴