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WATSON'S PRACTICAL SCHOOL SERIES

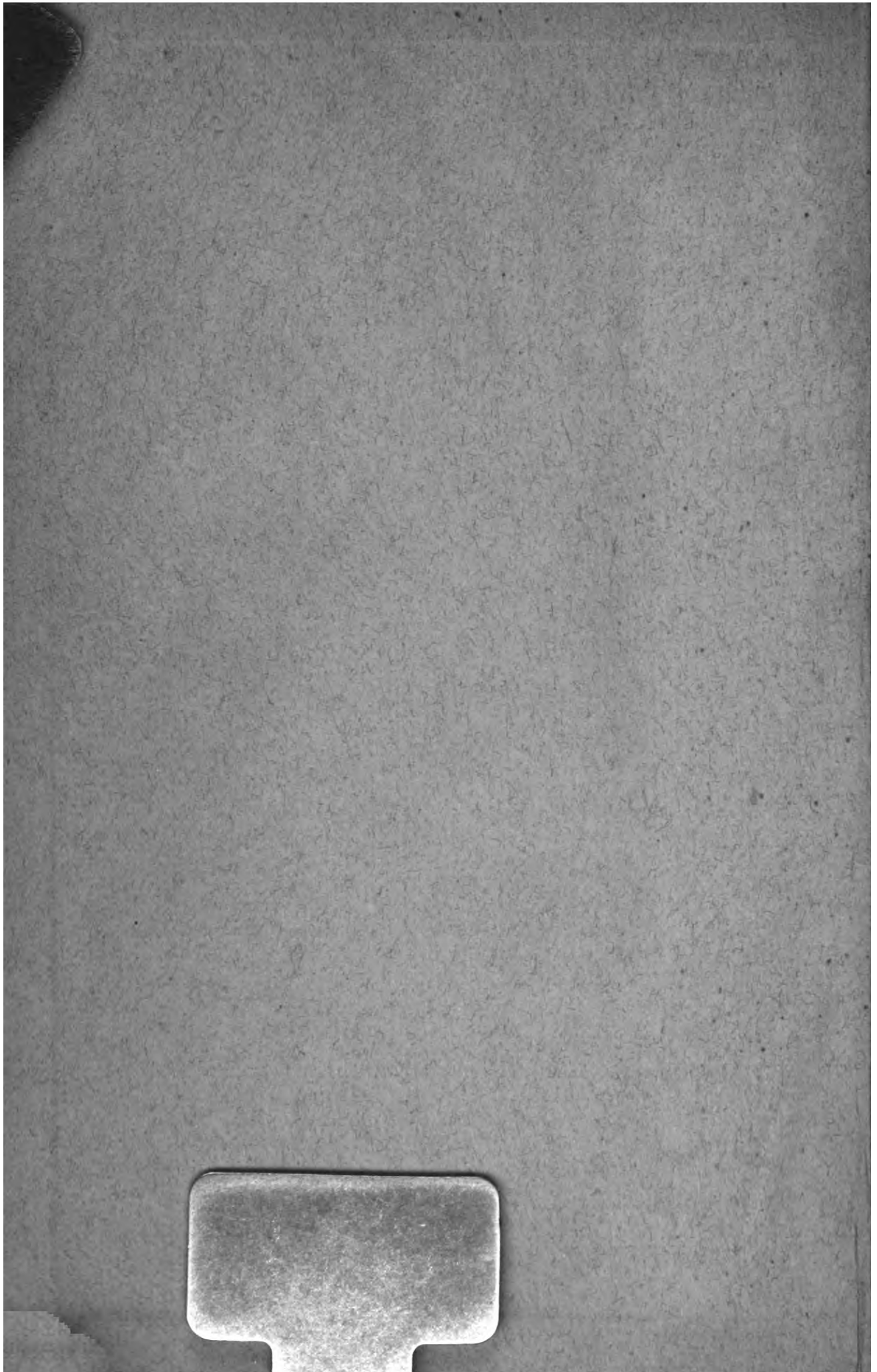
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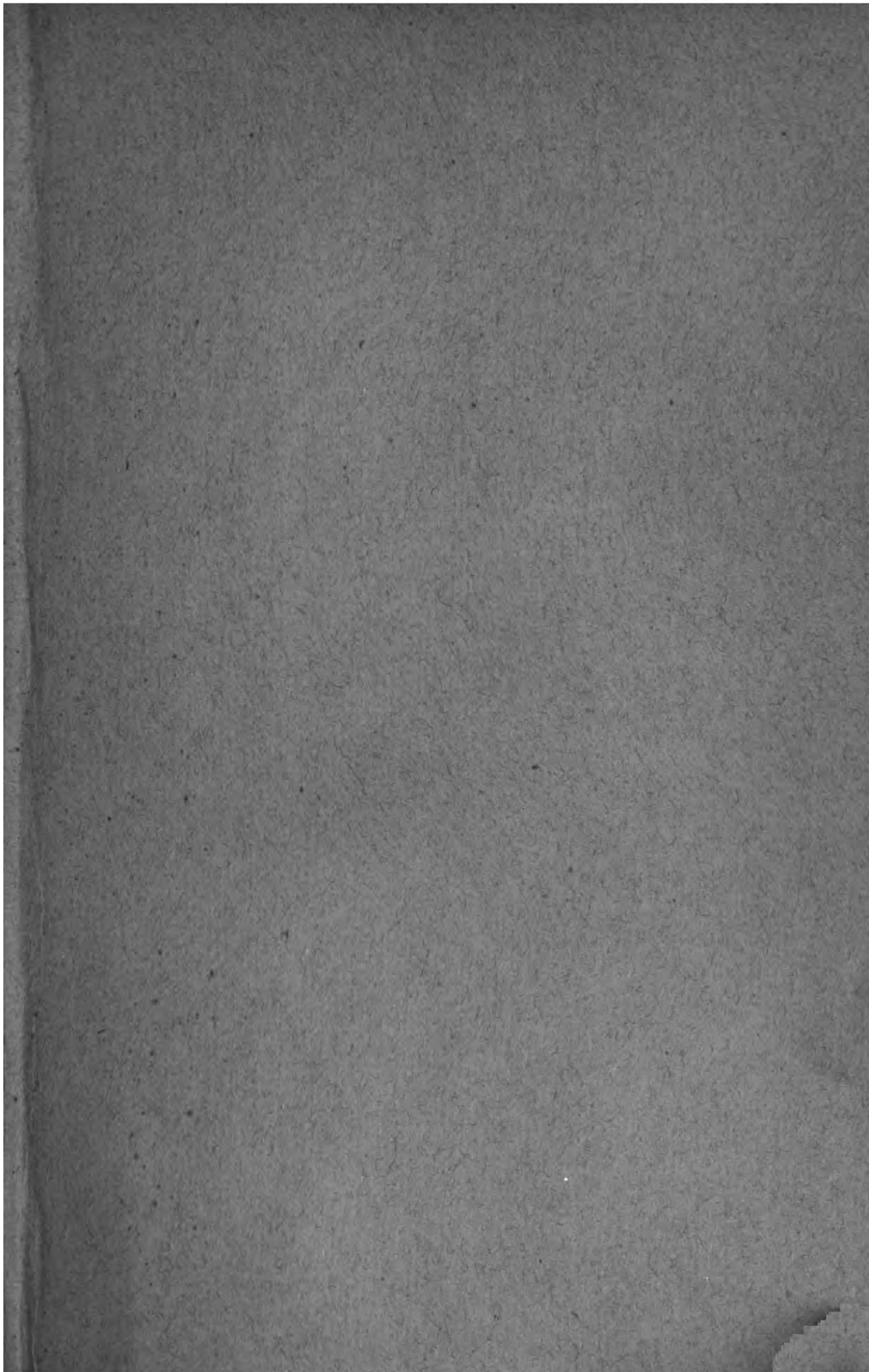
QUARTERLY

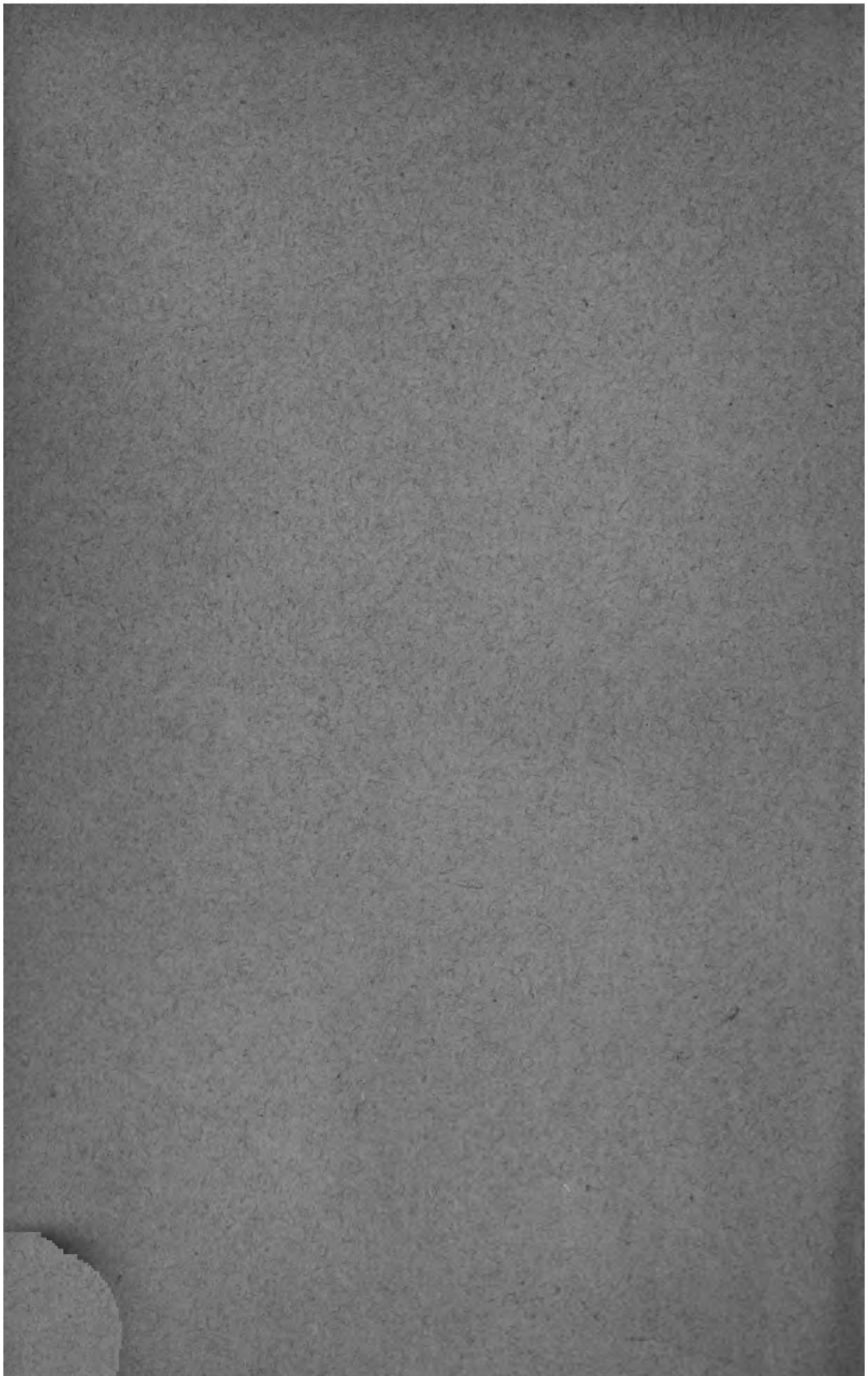
ARITHMETIC

ANSWERS.

PRICE 2/6 NETT.







A N S W E R S

TO THE

QUARTERLY

ARITHMETIC.

BY W. WATSON.

LONDON : SIMPKIN, MARSHALL, AND Co. ; JOHN
MARSHALL AND Co.

MANCHESTER : JOHN HEYWOOD ; THOMAS GREENWELL.

LIVERPOOL : PHILIP, SON, AND NEPHEW.

ORMSKIRK : T. HUTTON, CHURCH-STREET.

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NOTE.—The greatest care has been taken in verifying the following Answers. If an error should be detected, the Author will be deeply indebted to any person taking the trouble to forward it. A Corrected Answer Book will be sent in return.

W. WATSON,

ST. IGNATIUS' SQUARE, PRESTON.

ANSWERS

TO

The Quarterly Arithmetic.

STANDARD I. SIMPLE ADDITION.

EXERCISE 1.

A		B	
(1) 10	(11) 28	(1) 11	(11) 24
(2) 13	(12) 25	(2) 15	(12) 21
(3) 14	(13) 26	(3) 13	(13) 20
(4) 11	(14) 30	(4) 12	(14) 18
(5) 11	(15) 27	(5) 12	(15) 24
(6) 12	(16) 24	(6) 13	(16) 21
(7) 12	(17) 28	(7) 12	(17) 28
(8) 14	(18) 22	(8) 11	(18) 22
(9) 12	(19) 25	(9) 11	(19) 26
(10) 15	(20) 25	(10) 13	(20) 21

EXERCISE 2.

A		B	
(1) 32	(13) 20	(1) 31	(13) 15
(2) 31	(14) 14	(2) 31	(14) 14
(3) 29	(15) 21	(3) 29	(15) 23
(4) 27	(16) 14	(4) 18	(16) 30
(5) 30	(17) 18	(5) 33	(17) 20
(6) 34	(18) 15	(6) 29	(18) 18
(7) 35	(19) 29	(7) 27	(19) 26
(8) 30	(20) 23	(8) 32	(20) 19
(9) 29	(21) 30	(9) 31	(21) 24
(10) 21	(22) 35	(10) 26	(22) 21
(11) 9	(23) 25	(11) 10	(23) 12
(12) 14	(24) 20	(12) 15	(24) 19

EXERCISE 2.—*Continued.*

A				B			
(25)	20	(30)	20	(25)	23	(30)	24
(26)	23	(31)	20	(26)	22	(31)	23
(27)	27	(32)	30	(27)	31	(32)	29
(28)	25	(33)	20	(28)	30	(33)	24
(29)	24	(34)	31	(29)	27	(34)	31

EXERCISE 3.

A				B			
(1)	15	(13)	28	(1)	17	(13)	28
(2)	9	(14)	19	(2)	14	(14)	16
(3)	15	(15)	27	(3)	15	(15)	25
(4)	16	(16)	21	(4)	16	(16)	13
(5)	21	(17)	35	(5)	21	(17)	22
(6)	22	(18)	32	(6)	17	(18)	19
(7)	21	(19)	31	(7)	16	(19)	23
(8)	8	(20)	24	(8)	15	(20)	17
(9)	16	(21)	24	(9)	22	(21)	20
(10)	21	(22)	25	(10)	23	(22)	20
(11)	19	(23)	26	(11)	30	(23)	27
(12)	24	(24)	30	(12)	26	(24)	25

EXERCISE 4.

A				B			
(1)	73	(16)	220	(1)	160	(16)	265
(2)	168	(17)	188	(2)	154	(17)	262
(3)	80	(18)	244	(3)	262	(18)	184
(4)	118	(19)	216	(4)	176	(19)	221
(5)	251	(20)	133	(5)	249	(20)	185
(6)	73	(21)	242	(6)	192	(21)	323
(7)	128	(22)	217	(7)	132	(22)	263
(8)	140	(23)	397	(8)	226	(23)	285
(9)	149	(24)	368	(9)	190	(24)	162
(10)	162	(25)	254	(10)	78	(25)	255
(11)	296	(26)	174	(11)	217	(26)	238
(12)	198	(27)	171	(12)	220	(27)	223
(13)	297	(28)	415	(13)	190	(28)	236
(14)	326	(29)	387	(14)	237	(29)	214
(15)	306	(30)	214	(15)	321	(30)	193

EXERCISE 5.

A			B	
(1) 107	(14) 189		(1) 204	(14) 146
(2) 88	(15) 142		(2) 275	(15) 211
(3) 147	(16) 258		(3) 191	(16) 259
(4) 133	(17) 179		(4) 160	(17) 229
(5) 206	(18) 196		(5) 268	(18) 245
(6) 149	(19) 228		(6) 179	(19) 258
(7) 142	(20) 270		(7) 224	(20) 217
(8) 266	(21) 289		(8) 97	(21) 336
(9) 185	(22) 234		(9) 116	(22) 217
(10) 218	(23) 278		(10) 179	(23) 309
(11) 196	(24) 199		(11) 236	(24) 338
(12) 170	(25) 276		(12) 151	(25) 238
(13) 258	(26) 148		(13) 170	(26) 210

EXERCISE 6.

A			B	
(1) 353	(8) 290		(1) 256	(8) 309
(2) 228	(9) 281		(2) 195	(9) 298
(3) 388	(10) 331		(3) 299	(10) 219
(4) 246	(11) 235		(4) 230	(11) 190
(5) 316	(12) 304		(5) 276	(12) 296
(6) 339	(13) 391		(6) 259	(13) 291
(7) 173	(14) 273		(7) 252	(14) 242

EXERCISE 7.

A			B	
(1) 738	(9) 1,771		(1) 970	(9) 1,282
(2) 679	(10) 1,817		(2) 1,160	(10) 2,040
(3) 1,438	(11) 1,788		(3) 1,493	(11) 1,796
(4) 988	(12) 3,177		(4) 1,816	(12) 1,912
(5) 892	(13) 1,670		(5) 1,163	(13) 2,857
(6) 1,880	(14) 1,381		(6) 2,178	(14) 2,003
(7) 1,562	(15) 2,621		(7) 1,143	(15) 2,111
(8) 1,061	(16) 1,766		(8) 2,064	(16) 2,011

EXERCISE 8.

A		B	
(1) 1,463	(13) 1,721	(1) 1,924	(13) 936
(2) 1,777	(14) 1,769	(2) 2,022	(14) 1,788
(3) 1,268	(15) 1,357	(3) 2,450	(15) 1,240
(4) 1,360	(16) 1,788	(4) 2,177	(16) 655
(5) 1,995	(17) 881	(5) 1,391	(17) 1,433
(6) 2,039	(18) 1,377	(6) 1,289	(18) 1,762
(7) 2,958	(19) 1,671	(7) 1,949	(19) 799
(8) 1,434	(20) 1,377	(8) 1,366	(20) 2,006
(9) 1,313	(21) 845	(9) 1,731	(21) 2,039
(10) 1,680	(22) 1,108	(10) 930	(22) 576
(11) 2,045	(23) 2,254	(11) 2,397	(23) 799
(12) 767	(24) 2,189	(12) 1,138	(24) 1,925

EXERCISE 9.

A		B	
(1) 1,759	(12) 1,394	(1) 3,303	(12) 620
(2) 1,783	(13) 778	(2) 2,382	(13) 324
(3) 2,202	(14) 1,135	(3) 2,561	(14) 1,249
(4) 1,660	(15) 1,244	(4) 1,212	(15) 361
(5) 2,078	(16) 780	(5) 2,268	(16) 2,591
(6) 1,737	(17) 438	(6) 2,951	(17) 1,232
(7) 2,870	(18) 1,250	(7) 2,881	(18) 1,046
(8) 2,304	(19) 572	(8) 2,406	(19) 1,538
(9) 1,878	(20) 1,018	(9) 1,774	(20) 1,259
(10) 831	(21) 1,264	(10) 1,893	(21) 1,079
(11) 406	(22) 2,454	(11) 1,889	(22) 1,235

EXERCISE 10.

A		B	
(1) 610	(10) 992	(1) 1,674	(10) 1,919
(2) 1,523	(11) 1,426	(2) 1,300	(11) 1,545
(3) 1,394	(12) 1,565	(3) 601	(12) 890
(4) 1,244	(13) 1,166	(4) 423	(13) 2,771
(5) 1,213	(14) 1,398	(5) 2,069	(14) 800
(6) 1,216	(15) 1,281	(6) 641	(15) 1,689
(7) 609	(16) 1,176	(7) 1,579	(16) 1,552
(8) 1,093	(17) 1,926	(8) 1,874	(17) 1,411
(9) 560	(18) 1,217	(9) 1,746	(18) 718

EXERCISE 11.

A			B	
(1) 807	(7) 1,031		(1) 496	(7) 1,349
(2) 1,421	(8) 1,218		(2) 1,087	(8) 1,162
(3) 1,537	(9) 1,788		(3) 796	(9) 985
(4) 923	(10) 906		(4) 1,304	(10) 1,732
(5) 501	(11) 1,125		(5) 1,619	(11) 1,167
(6) 666	(12) 1,340		(6) 935	(12) 1,586

EXERCISE 12.

A			B	
(1) 1,774	(4) 2,912		(1) 1,264	(4) 1,054
(2) 2,344	(5) 1,941		(2) 1,514	(5) 1,661
(3) 1,565	(6) 1,902		(3) 1,743	(6) 1,347
(7) 2,562			(7) 2,499	

SIMPLE SUBTRACTION.

EXERCISE 13.

A			B	
(1) 55	(16) 641		(1) 46	(16) 111
(2) 33	(17) 110		(2) 33	(17) 112
(3) 12	(18) 110		(3) 9	(18) 514
(4) 40	(19) 122		(4) 51	(19) 111
(5) 26	(20) 210		(5) 16	(20) 351
(6) 25	(21) 124		(6) 12	(21) 410
(7) 51	(22) 118		(7) 33	(22) 520
(8) 12	(23) 540		(8) 31	(23) 100
(9) 17	(24) 461		(9) 24	(24) 2
(10) 12	(25) 175		(10) 21	(25) 311
(11) 313	(26) 100		(11) 434	(26) 311
(12) 136	(27) 614		(12) 10	(27) 542
(13) 120	(28) 411		(13) 260	(28) 211
(14) 312	(29) 304		(14) 260	(29) 309
(15) 431	(33) 501		(15) 52	(30) 212

EXERCISE 14.

A			B	
(1) 310	(4) 102		(1) 320	(4) 613
(2) 320	(5) 822		(2) 213	(5) 114
(3) 912	(6) 121		(3) 822	(6) 310

EXERCISE 14.—*Continued.*

A		B	
(7) 211	(12) 202	(7) 811	(12) 171
(8) 102	(13) 841	(8) 110	(13) 235
(9) 104	(14) 123	(9) 351	(14) 107
(10) 210	(15) 216	(10) 180	(15) 212
(11) 203	(16) 115	(11) 812	(16) 202
(17) 1		(17) 811	

EXERCISE 15.

A		B	
(1) 57	(15) 7	(1) 8	(15) 35
(2) 9	(16) 28	(2) 7	(16) 18
(3) 17	(17) 7	(3) 18	(17) 8
(4) 37	(18) 9	(4) 7	(18) 7
(5) 14	(19) 29	(5) 7	(19) 39
(6) 16	(20) 28	(6) 7	(20) 46
(7) 9	(21) 142	(7) 17	(21) 217
(8) 18	(22) 149	(8) 45	(22) 207
(9) 55	(23) 309	(9) 22	(23) 104
(10) 19	(24) 408	(10) 28	(24) 117
(11) 9	(25) 109	(11) 27	(25) 408
(12) 68	(26) 145	(12) 9	(26) 225
(13) 5	(27) 358	(13) 47	(27) 647
(14) 9	(28) 559	(14) 25	(28) 58

EXERCISE 16.

A		B	
(1) 645	(12) 319	(1) 87	(12) 392
(2) 163	(13) 122	(2) 121	(13) 229
(3) 633	(14) 449	(3) 549	(14) 110
(4) 428	(15) 504	(4) 802	(15) 91
(5) 437	(16) 108	(5) 509	(16) 869
(6) 154	(17) 391	(6) 61	(17) 208
(7) 36	(18) 611	(7) 486	(18) 381
(8) 504	(19) 62	(8) 148	(19) 85
(9) 91	(20) 91	(9) 309	(20) 399
(10) 519	(21) 250	(10) 583	(21) 329
(11) 256	(22) 99	(11) 631	(22) 219

EXERCISE 16.—*Continued.*

A			B	
(23) 819	(30) 81		(23) 200	(30) 30
(24) 401	(31) 118		(24) 78	(31) 238
(25) 198	(32) 310		(25) 158	(32) 182
(26) 674	(33) 97		(26) 31	(33) 125
(27) 420	(34) 62		(27) 119	(34) 138
(28) 492	(35) 91		(28) 97	(35) 264
(29) 190	(36) 424		(29) 456	(36) 35

EXERCISE 17.

A			B	
(1) 204	(21) 119		(1) 6	(21) 218
(2) 18	(22) 326		(2) 172	(22) 9
(3) 625	(23) 197		(3) 115	(23) 104
(4) 218	(24) 296		(4) 421	(24) 217
(5) 521	(25) 727		(5) 610	(25) 404
(6) 410	(26) 872		(6) 532	(26) 908
(7) 508	(27) 537		(7) 224	(27) 318
(8) 124	(28) 389		(8) 633	(28) 784
(9) 109	(29) 168		(9) 218	(29) 517
(10) 316	(30) 109		(10) 418	(30) 99
(11) 518	(31) 408		(11) 248	(31) 6
(12) 516	(32) 109		(12) 117	(32) 218
(13) 308	(33) 208		(13) 206	(33) 108
(14) 103	(34) 495		(14) 209	(34) 102
(15) 338	(35) 209		(15) 59	(35) 203
(16) 418	(36) 408		(16) 19	(36) 627
(17) 809	(37) 519		(17) 204	(37) 147
(18) 97	(38) 8		(18) 285	(38) 117
(19) 309	(39) 318		(19) 408	(39) 414
(20) 743	(40) 412		(20) 117	(40) 97

EXERCISE 18.

A			B	
(1) 566	(6) 71		(1) 88	(6) 782
(2) 309	(7) 918		(2) 292	(7) 523
(3) 518	(8) 166		(3) 165	(8) 416
(4) 465	(9) 577		(4) 435	(9) 137
(5) 93	(10) 614		(5) 575	(10) 624
(11) 56			(11) 259	

EXTRA STANDARD WORK.

SIMPLE SUBTRACTION.

EXERCISE 19.

A		B	
(1) 37,549	(12) 5,206	(1) 23,029	(12) 12,034
(2) 20,265	(13) 4,239	(2) 32,278	(13) 10,579
(3) 26,405	(14) 8,580	(3) 21,650	(14) 3,785
(4) 29,365	(15) 15,705	(4) 25,052	(15) 5,540
(5) 23,283	(16) 12,450	(5) 30,437	(16) 17,081
(6) 21,254	(17) 20,333	(6) 32,190	(17) 9,895
(7) 18,527	(18) 27,655	(7) 30,281	(18) 7,656
(8) 22,315	(19) 26,297	(8) 29,549	(19) 10,368
(9) 19,146	(20) 11,121	(9) 16,894	(20) 10,710
(10) 8,100	(21) 13,013	(10) 16,744	(21) 11,664
(11) 2,804	(22) 11,475	(11) 19,088	(22) 7,917

EXERCISE 20.

A		B	
(1) 10,801	(4) 4,762	(1) 8,295	(4) 4,649
(2) 13,743	(5) 9,691	(2) 14,922	(5) 19,526
(3) 6,581	(6) 18,041	(3) 7,217	(6) 14,522
(7) 11,444		(7) 23,830	

EXERCISE 21.

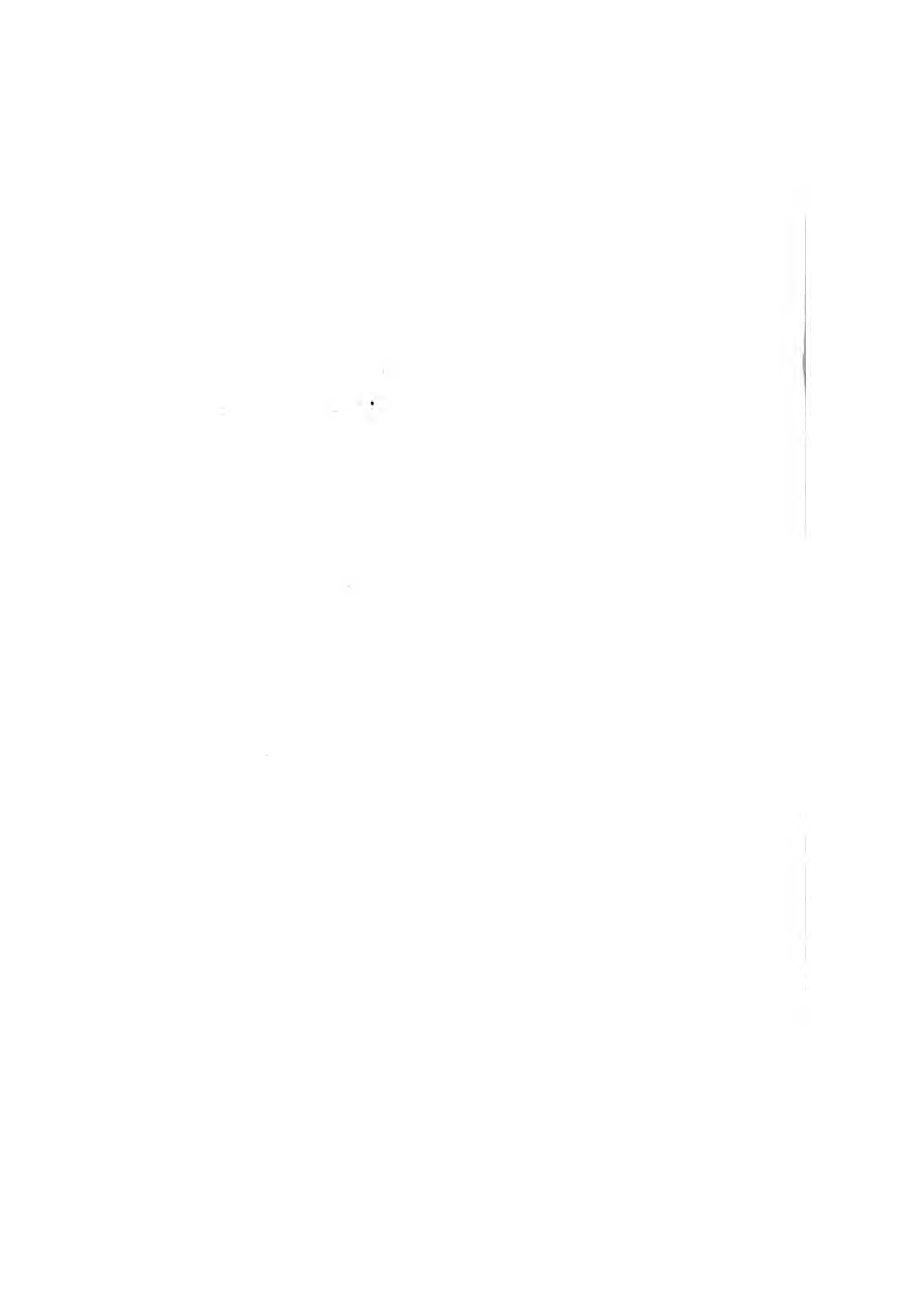
A		B	
(1) 5,747	(17) 7,205	(1) 1,737	(17) 1,004
(2) 3 789	(18) 403	(2) 6,088	(18) 2,124
(3) 3,800	(19) 966	(3) 3,229	(19) 112
(4) 7,724	(20) 2	(4) 2,288	(20) 4,354
(5) 3,878	(21) 2,697	(5) 358	(21) 2,513
(6) 737	(22) 5,938	(6) 2,987	(22) 376
(7) 4,558	(23) 504	(7) 2,937	(23) 159
(8) 445	(24) 4,132	(8) 2,434	(24) 872
(9) 6,719	(25) 1,793	(9) 2,906	(25) 1,568
(10) 5,036	(26) 3,777	(10) 211	(26) 1,146
(11) 4,125	(27) 3,518	(11) 4 106	(27) 7,187
(12) 1,306	(28) 921	(12) 7,483	(28) 722
(13) 598	(29) 5,321	(13) 1,071	(29) 1,947
(14) 249	(30) 7,908	(14) 791	(30) 585
(15) 1,557	(31) 8,645	(15) 277	(31) 337
(16) 2,229	(32) 682	(16) 3,374	(32) 909

EXERCISE 21.—*Continued.*

A			B	
(33) 4,291	(37) 3,254		(33) 232	(37) 1,828
(34) 2,821	(38) 1,431		(34) 327	(38) 734
(35) 1,344	(39) 5,638		(35) 3,412	(39) 1,651
(36) 2,441	(40) 4,331		(36) 1,779	(40) 197

EXERCISE 22.

A			B	
(1) 899	(6) 989		(1) 2,988	(6) 997
(2) 3,009	(7) 1,988		(2) 1,405	(7) 908
(3) 1,987	(8) 2,896		(3) 4,308	(8) 4,856
(4) 7,495	(9) 889		(4) 2,869	(9) 2,585
(5) 1,786	(10) 3,899		(5) 3,006	(10) 2,889



ANSWERS

TO

The Quarterly Arithmetic.

STANDARD II.

SIMPLE ADDITION.

EXERCISE 1.

A			B	
(1) 28,820	(7) 11,216		(1) 23,822	(7) 18,094
(2) 33,371	(8) 270,156		(2) 26,475	(8) 313,972
(3) 27,501	(9) 187,416		(3) 33,702	(9) 286,310
(4) 7,924	(10) 254,789		(4) 9,785	(10) 314,587
(5) 19,282	(11) 280,389		(5) 13,622	(11) 31,680
(6) 10,615	(12) 34,920		(6) 13,505	(12) 186,909
(13) 206,380			(13) 111,786	

EXERCISE 2.

A			B	
(1) 128,241	(5) 20,782		(1) 193,792	(5) 165,023
(2) 249,047	(6) 75,748		(2) 272,205	(6) 25,181
(3) 322,427	(7) 44,448		(3) 111,304	(7) 39,084
(4) 237,294	(8) 403,565		(4) 173,522	(8) 168,165

EXERCISE 3.

EASY PROBLEMS IN ADDITION.

A			B	
(1) 512	(5) 522		(1) 780	(5) 414
(2) 686	(6) 635		(2) 232,600	(6) 117
(3) 16,277	(7) 25		(3) 9,834	(7) 880
(4) 1,095	(8) 276		(4) 388	(8) 60

EXERCISE 4.

SIMPLE SUBTRACTION.

A		B	
(1) 3,805	(17) 53,648	(1) 2,108	(17) 958
(2) 2,318	(18) 61,048	(2) 2,275	(18) 21,995
(3) 6,097	(19) 30,184	(3) 801	(19) 1,009
(4) 2,006	(20) 8,281	(4) 4,655	(20) 48,596
(5) 936	(21) 27,422	(5) 1	(21) 18,590
(6) 3,934	(22) 39,032	(6) 2,621	(22) 14,898
(7) 3	(23) 3,306	(7) 599	(23) 10,685
(8) 2,298	(24) 10,997	(8) 1,909	(24) 58,889
(9) 1,699	(25) 70,781	(9) 899	(25) 54,815
(10) 2,500	(26) 55,973	(10) 1,918	(26) 58,360
(11) 6,001	(27) 19,399	(11) 1,726	(27) 31,325
(12) 899	(28) 7,299	(12) 67	(28) 19,806
(13) 6,982	(29) 28,198	(13) 2,599	(29) 19,227
(14) 1,328	(30) 19,206	(14) 3,485	(30) 36,069
(15) 22,596	(31) 63,061	(15) 16,357	(31) 28,001
(16) 24,983	(32) 61,915	(16) 6,999	(32) 31,388

EXERCISE 5.

A		B	
(1) 10,293	(6) 18,739	(1) 80,901	(6) 30,565
(2) 1,062	(7) 4,328	(2) 23,388	(7) 3,005
(3) 11,917	(8) 26,938	(3) 59,334	(8) 1,346
(4) 13,921	(9) 35,127	(4) 25,956	(9) 10,937
(5) 3,228	(10) 7,898	(5) 28,985	(10) 19,027

EXERCISE 6.

EASY PROBLEMS IN SUBTRACTION.

A		B	
(1) 1,244	(5) 197	(1) 9,929	(5) 7 136
(2) 3,125	(6) 5,593	(2) 11,673	(6) 586
(3) 562	(7) 7,306	(3) 18	(7) 228
(4) 1,839	(8) 290	(4) 5,897	(8) 120

SIMPLE MULTIPLICATION.

EXERCISE 7.

A		B	
(1) 7,884	(17) 182,365	(1) 6,112	(17) 321,375
(2) 12,958	218,838	(2) 14,596	385,650
(3) 5,728	(18) 360,740	(3) 6,850	(18) 360,965
(4) 7,886	432,888	(4) 2,122	433,158
(5) 8,601	(19) 164,192	(5) 9,252	(19) 683,578
(6) 9,105	187,648	(6) 21,087	781,232
(7) 8,202	(20) 475,230	(7) 24,015	(20) 510,748
(8) 31,784	543,120	(8) 15,456	583,712
(9) 33,100	(21) 122,211	(9) 11,892	(21) 267,066
(10) 24,680	135,790	(10) 41,075	296,740
(11) 36,075	(22) 777,789	(11) 19,730	(22) 713,547
(12) 50,382	864,210	(12) 16,548	792,830
(13) 17,658	(23) 840,675	(13) 22,356	(23) 259,369
(14) 49,002	917,100	(14) 28,878	282,948
(15) 144,728	(24) 750,783	(15) 76,112	(24) 436,117
217,092	819,036	114,168	475,764
289,456	(25) 802,065	152,224	(25) 80,146
(16) 129,948	874,980	(16) 156,506	87,432
194,922	(26) 775,566	234,759	(26) 756,272
259,896	846,072	313,012	825,024

EXERCISE 8.

A		B	
(1) 947,232	(5) 2,083,410	(1) 399,802	(5) 5,655,720
1,020,096	2,381,040	430,556	6,463,680
1,092,960	2,678,670	461,310	7,271,640
(2) 1,076,768	(6) 2,062,808	(2) 972,944	(6) 1,997,732
1,144,066	2,156,572	1,033,753	2,088,538
1,211,364	2,250,336	1,094,562	2,179,344
(3) 701,898	(7) 1,821,500	(3) 1,502,653	(7) 1,873,575
738,840	1,894,360	1,581,740	1,948,518
1,108,260	1,967,220	2,372,610	2,023,461
(4) 2,882,600	(8) 1,819,636	(4) 3,907,360	(8) 830,060
3,603,250	1,884,623	4,884,200	859,705
4,323,900	2,144,571	5,861,040	978,285

EXERCISE 8.—*Continued.*

A		B	
(9) 2,477,376	(17) 3,308,506	(9) 3,087,438	(17) 5,884,550
2,550,240	2,346,731	3,178,245	4,173,925
2,623,104	2,808,383	3,269,052	4,995,025
(10) 2,570,834	(18) 1,477,728	(10) 2,350,203	(18) 6,214,761
2,640,316	1,970,304	2,413,722	8,582,289
2,709,798	2,228,320	2,477,241	9,371,465
(11) 843,124	(19) 7,002,912	(11) 3,069,383	(19) 2,849,088
863,688	5,398,078	3,144,246	2,196,172
884,252	4,960,396	3,219,109	2,018,104
(12) 3,786,508	(20) 3,406,475	(12) 1,667,952	(20) 3,508,825
3,872,565	2,679,250	1,705,860	2,759,750
3,958,622	3,483,025	1,743,768	3,587,675
(13) 3,862,131	(21) 5,566,276	(13) 3,430,342	(21) 2,806,552
3,944,304	4,416,719	3,503,328	2,226,938
4,026,477	5,687,282	3,576,314	2,867,564
(14) 2,499,153	(22) 2,230,350	(14) 4,447,965	(22) 3,547,350
2,548,156	2,557,468	4,535,180	4,067,628
2,597,159	2,914,324	4,622,395	4,635,204
(15) 3,826,224	(23) 4,222,647	(15) 1,333,206	(23) 3,903,174
3,897,080	3,412,240	1,357,895	3,154,080
3,967,936	3,454,893	1,382,584	3,193,506
(16) 5,642,373	(24) 6,785,828	(16) 775,029	(24) 3,459,908
5,741,362	7,696,122	788,626	3,924,042
5,840,351	5,296,256	802,223	2,700,416

EXERCISE 9.

A		B	
(1) 17,313,577	(6) 17,870,060	(1) 13,787,335	(6) 18,440,434
17,494,871	20,829,250	13,931,705	21,494,075
(2) 11,490,108	(7) 35,666,176	(2) 2,941,764	(7) 32,028,672
11,568,272	36,566,404	2,961,776	32,837,088
(3) 30,373,676	(8) 84,942,627	(3) 11,761,125	(8) 38,514,917
30,526,692	90,963,642	11,820,375	41,244,982
(4) 18,367,856	(9) 7,813,400	(4) 46,599,534	(9) 4,013,600
19,235,008	11,720,100	487,999,512	6,020,400
(5) 27,007,968	(10) 32,863,600	(5) 39,625,592	(10) 10,618,800
28,100,202	41,079,500	41,229,138	13,273,500

EXERCISE 9.—*Continued.*

A		B	
(11) 22,045,200	(21) 45,074,325	(11) 22,974,600	(21) 40,493,355
25,719,400	54,089,190	26,803,700	48,592,026
(12) 74,282,400	(22) 21,745,122	(12) 38,138,400	(22) 22,311,555
83,567,700	24,851,568	42,905,700	25,498,920
(13) 6,192,800	(23) 37,943,019	(13) 5,929,600	(23) 38,218,743
12,385,600	29,967,009	11,859,200	30,184,773
(14) 16,134,090	(24) 15,343,835	(14) 6,999,930	(24) 53,291,927
24,585,280	17,164,290	46,799,532	59,614,698
(15) 20,800,820	(25) 5,833,275	(15) 40,799,592	(25) 7,379,925
26,121,960	38,999,610	30,899,691	49,340,070
(16) 19,327,750	(26) 31,733,016	(16) 46,743,977	(26) 16,100,088
22,593,600	24,033,093	70,465,962	12,193,449
(17) 71,877,660	(27) 53,421,688	(17) 18,222,040	(27) 17,274,543
80,965,640	80,532,528	36,266,304	26,041,158
(18) 44,523,360	(28) 20,499,795	(18) 17,055,385	(28) 8,093,800
33,619,680	40,799,592	27,833,055	16,108,656
(19) 8,101,446	(29) 20,466,462	(19) 7,865,904	(29) 5,211,018
16,202,892	33,399,666	15,731,808	8,503,974
(20) 6,677,649	(30) 22,621,996	(20) 9,817,839	(30) 11,059,552
8,903,532	9,111,020	13,090,452	4,454,240

EXERCISE 10.

A		B	
(1) 119,642,688	(8) 675,034,765	(1) 150,868,602	(8) 409,402,740
718,657,632	222,929,923	906,222,303	135,205,068
(2) 99,018,304	(9) 38,479,759	(2) 490,907,648	(9) 165,830,135
58,390,258	159,948,946	289,484,096	689,306,600
(3) 275,996,700	(10) 230,028,491	(3) 373,029,300	(10) 241,144,288
213,798,228	541,809,268	288,963,612	567,991,424
(4) 392,869,113	(11) 80,117,856	(4) 310,640,694	(11) 175,158,144
111,508,761	85,840,560	88,169,718	187,669,440
(5) 213,829,385	(12) 580,274,891	(5) 424,008,992	(12) 604,564,548
83,480,320	123,646,285	165,535,744	128,821,980
(6) 195,151,352	(13) 44,087,292	(6) 79,305,699	(13) 191,616,948
196,502,192	56,812,440	79,854,654	246,924,360
(7) 93,749,277	(14) 111,156,212	(7) 189,535,905	(14) 707,920,352
112,098,008	27,805,284	226,632,120	175,975,264

EXERCISE 10.—*Continued.*

A		B	
(15) 87,729,172	(23) 511,331,712	(15) 59,974,992	(23) 480,286,272
182,683,958	584,368,676	124,889,688	548,888,806
(16) 80,227,488	(24) 267,879,904	(16) 158,712,312	(24) 592,266,992
30,774,624	119,041,214	60,880,776	263,193,247
(17) 311,877,240	(25) 436,069,308	(17) 637,695,840	(25) 326,310,734
75,757,032	654,249,270	154,900,512	489,574,835
(18) 98,566,625	(26) 42,970,400	(18) 193,996,800	(26) 165,534,270
173,720,750	20,971,200	341,913,600	80,787,060
(19) 300,205,292	(27) 333,337,420	(19) 301,592,192	(27) 254,301,060
196,273,090	499,592,560	197,179,840	381,136,080
(20) 566,389,292	(28) 91,612,320	(20) 724,916,532	(28) 287,601,750
509,358,010	150,018,880	651,922,710	470,959,500
(21) 121,881,292	(29) 40,241,840	(21) 296,323,572	(29) 84,974,900
162,494,865	78,623,444	395,065,215	166,021,715
(22) 147,366,628	(30) 89,925,147	(22) 239,947,592	(30) 83,618,340
176,834,066	205,768,350	287,927,524	190,115,700

EXERCISE 11.

A		B	
(1) 14,580	(6) 140,716,415	(1) 62,335	(6) 60,779,148
(2) 160,848	(7) 50,930,516	(2) 631,872	(7) 8,567,286
(3) 13,880,974	(8) 78,097,568	(3) 12,691,784	(8) 59,054,264
(4) 56,240,952	(9) 5,369,532	(4) 53,120,998	(9) 913,024
(5) 163,821,658	(10) 398,217,820	(5) 152,275,005	(10) 479,075,418

EXERCISE 12.

A		B	
(1) 5,933,184	(6) 6,016,369	(1) 46,541,433	(6) 31,013,919
(2) 18,607,194	(7) 15,409,130	(2) 65,481,845	(7) 39,286,746
(3) 2,923,888	(8) 34,510,905	(3) 3,372,747	(8) 5,866,049
(4) 8,125,572	(9) 269,950,852	(4) 43,005,564	(9) 5,023,833
(5) 68,880,182	(10) 2,613,504	(5) 5,633,750	(10) 8,819,833
(11) 247,689,730		(11) 439,111,470	

EXERCISE 13.

A	B
(1) 288 nails.	(1) 4,032 marbles.
(2) 8,820 pounds.	(2) 286,976 oranges.
(3) 290,000 words.	(3) 1,520 letters
(4) 9,600 farthings.	(4) 156,800 pounds.
(5) 8,514 trees.	(5) 213,693 herrings.
(6) 675 men.	(6) 1,332 miles.
(7) 579,072 letters.	(7) 282,528 apples
(8) 160,063 herrings,	(8) 127,920 words.

SHORT DIVISION.

EXERCISE 14.

A	B
(1) 3,042	(1) 1,232
(2) 3,421	(2) 1,512
(3) 1,234	(3) 4,130
(4) 2,340	(4) 3,112
(5) 2,304	(5) 2,312
(6) 4,021	(6) 1,341
(7) 2,005	(7) 712
(8) 502	(8) 3,120
(9) 603	(9) 613
(10) 2,302	(10) 421
(11) 3,021	(11) 2,073
(12) 1,230	(12) 2,408
(13) 508	(13) 408
(14) 310	(14) 1,232
(15) 2,012	(15) 507
(16) 2,006	(16) 1,016
(17) 1,201	(17) 1,031
(18) 304	(18) 2,004
(19) 804	(19) 435
(20) 312	(20) 772
(21) 608	(21) 431
(22) 602	(22) 1,404
(23) 1,003	(23) 763
(24) 805	(24) 401
(25) 19,231	(25) 36,082
	(26) 15,360 + 1
	(27) 10,240 + 1
	(28) 7,680 + 1
	(29) 6,144 + 1
	(30) 24,054 + 2
	(31) 18,041
	(32) 14,432 + 4
	(33) 12,820 + 2
	(34) 9,615 + 2
	(35) 7,692 + 2
	(36) 36,092
	(37) 24,061 + 1
	(38) 18,046
	(39) 14,436 + 4

EXERCISE 15.

A			B	
(1) 301	(31) 4,956		(1) 1,201	(31) 10,122
(2) 405	4,248		(2) 1,406	8,676
(3) 306	3,717		(3) 1,003	7,591 + 4
(4) 507	3,304		(4) 1,303	6,748
(5) 710	2,973 + 6		(5) 338	6,073 + 2
(6) 212	(32) 16,205 + 5		(6) 1,291	(32) 6,202 + 4
(7) 410	13,890 + 5		(7) 1,104	5,316 + 4
(8) 203	12,154 + 3		(8) 302	4,652
(9) 1,112	10,803 + 8		(9) 1,012	4,135 + 1
(10) 910	9,723 + 5		(10) 902	3,721 + 6
(11) 708	(33) 11,702 + 3		(11) 807	(33) 13,470 + 5
(12) 506	10,030 + 5		(12) 605	11,546 + 3
(13) 1,002	8,776 + 7		(13) 1,022	10,103 + 1
(14) 407	7,801 + 6		(14) 1,148	8,980 + 5
(15) 910	7,021 + 5		(15) 237	8,082 + 5
(16) 481	(34) 12,160 + 4		(16) 794	(34) 5,041 + 5
(17) 205	10,423 + 3		(17) 567	4,321 + 4
(18) 304	9,120 + 4		(18) 902	3,781 + 3
(19) 809	8,107 + 1		(19) 908	3,361 + 2
(20) 1,011	7,296 + 4		(20) 1,020	3,025 + 1
(21) 121	(35) 15,458 + 5		(21) 210	(35) 12,127 + 3
(22) 607	13,250 + 3		(22) 706	10,395
(23) 405	11,594 + 1		(23) 504	9,095 + 5
(24) 203	10,305 + 8		(24) 802	8,085
(25) 726	9,275 + 3		(25) 725	7,276 + 5
(26) 382	(36) 1,676		(26) 203	(36) 11 620 + 3
(27) 798	1,436 + 4		(27) 689	9,960 + 3
(28) 260	1,257		(28) 748	8,715 + 3
(29) 386	1,117 + 3		(29) 211	7,747
(30) 271	1,005 + 6		(30) 729	6,972 + 3

EXERCISE 16.

A		B	
(1) 106	(23) 14,592 + 4	(1) 207	(23) 18 021 + 1
(2) 901	12,160 + 4	(2) 309	15,017 + 4
(3) 708	10,423 + 3	(3) 331	12,872 + 2
(4) 506	(24) 7,655	(4) 412	(24) 14,817 + 4
(5) 304	6,379 + 1	(5) 660	12 348 + 1
(6) 102	5,467 + 6	(6) 881	10,584 + 1
(7) 103	(25) 1,965 + 1	(7) 140	(25) 18,174 + 4
(8) 405	16,376	(8) 302	15,145 + 4
(9) 90	14,036 + 4	(9) 603	12,982
(10) 502	(26) 7,794 + 2	(10) 402	(26) 11,413 + 4
(11) 110	6,495 + 2	(11) 331	9,511 + 3
(12) 120	5,567 + 3	(12) 401	8,152 + 2
(13) 6,633	(27) 12,330 + 7	(13) 7,240 + 2	(27) 9,752 + 3
6 080 + 3	10,960 + 7	6,636 + 10	8,668 + 7
(14) 7,543 + 1	9,864 + 7	(14) 8,845 + 6	7,801 + 9
6,914 + 6	(28) 3,717 + 7	8,108 + 5	(28) 8,713 + 4
(15) 8,843 + 10	3,304 + 7	(15) 2,457 + 8	7,745 + 3
8,106 + 11	2,974 + 3	2,252 + 11	6,970 + 8
(16) 6,633 + 1	(29) 3,830 + 2	(16) 2 613 + 2	(29) 7 938 + 5
6,080 + 4	3,404 + 6	2,395 + 5	7,056 + 5
(17) 5,882 + 1	3,064 + 2	(17) 3,474 + 1	6 350 + 9
5,391 + 11	(30) 6,121 + 5	3,184 + 7	(30) 8,850 + 6
(18) 8,256 + 9	5,441 + 4	(18) 6 562 + 1	7,867 + 3
7,568 + 9	4,897 + 3	6,015 + 3	7,080 + 6
(19) 46,382 + 1	(31) 2,796 + 7	(19) 39,903	(31) 1,977 + 6
30,921 + 2	2,563 + 7	26,602	1,812 + 9
23,191 + 1		19,951 + 2	
(20) 36 481 + 1	(32) 4,512 + 9	(20) 45,350 + 1	(32) 7,469 + 5
24,321	4,136 + 9	30,233 + 2	6,847
18,240 + 3		22,675 + 1	
(21) 13,241	(33) 2,493 + 5	(21) 10,393	(33) 2,703 + 5
8,827 + 1	2,285 + 8	6 928 + 2	2,478 + 2
6,620 + 2		5,196 + 2	
(22) 15 281 + 1	(34) 3 648 + 2	(22) 39 938	(34) 3,832 + 4
10,187 + 2	3,344 + 2	26,625 + 1	3,513
7,640 + 3		19,969	

EXERCISE 17.

A		B	
(1) 1,568 + 4	(10) 9,915	(1) 2,051 × 1	(10) 12,112 + 5
(2) 5,161 + 4	(11) 621 + 7	(2) 9,300	(11) 2,861 + 10
(3) 10,004 + 1	(12) 2,930	(3) 13,297 + 5	(12) 5,663 + 5
(4) 1,691 + 1	(13) 14,983 + 3	(4) 2,752 + 9	(13) 8,863 + 2
(5) 6,110 + 5	(14) 37,509 + 1	(5) 4,989 + 5	(14) 3,258 + 2
(6) 4,143 + 5	(15) 9,671 + 2	(6) 1,287	(15) 14,803 + 3
(7) 875 + 7	(16) 4,247 + 5	(7) 6,867 + 2	(16) 6,634 + 10
(8) 1,889 + 6	(17) 583 + 5	(8) 835 + 3	(17) 2,667 + 3
(9) 2,253 + 2	(18) 50,562	(9) 10,002 + 6	(18) 138,811 + 1

EASY PROBLEMS IN SHORT DIVISION.

EXERCISE 18.

A	B
(1) £47	(1) £24
(2) 1,043 oranges.	(2) 701 fish in one boat.
(3) 180 herrings in each.	(3) 384 oranges.
(4) 564 nails.	(4) 65 yards.
(5) 3,647 shillings.	(5) 6,867 pence.
(6) 84 yards.	(6) 240 yards.
(7) 21 miles.	(7) 24 hours.
(8) 39 miles.	(8) £84
(9) 1.007 doz.	(9) 76 desks.
(10) 16 squares.	(10) 156 oxen.

MISCELLANEOUS PROBLEMS.

EXERCISE 19.

A	B
(1) 2,487 + 5	(1) 318 books.
(2) 298 turnips.	(2) 1,110 feet.
(3) 20.808	(3) 25.016 marbles.
(4) 56 marbles.	(4) 2.920 half-pence.
(5) 603 hours.	(5) 8,996 nuts.
(6) 1.446 + 4 hours.	(6) 3,181 feet.
(7) 880 sheep.	(7) 171 lbs.
(8) 28 years.	(8) 87 lbs.
(9) 102,816 words.	(9) 10,528 eggs.

EXERCISE 20.

A	B
(1) 2	(1) 406 marbles.
(2) 512 legs.	(2) 314 trees.
(3) 1,098,810 people.	(3) 3,295 eggs.
(4) 1,952 + 4 apples.	(4) 60,986 marbles.
(5) 2,178 books.	(5) 10,514 + 2 bags.
(6) 1,327,764	(6) 3,550 nuts.

EXTRA STANDARD WORK.

EXERCISE 21.

A	B
(1) 1,386,604	(1) 1,134,836
(2) 644,090	(2) 1,097,389
(3) 875,072	(3) 914,532
(4) 1,108,224	(4) 1,163,949
(5) 1,705,308	(5) 1,586,880
(6) 1,727,520	(6) 1,727,651
(7) 91,034	(7) 622,061
(8) 104,919	(8) 99,019
(9) 146,029	(9) 628,499
(10) 4,009	(10) 511,112
(11) 166,236	(11) 90,009
(12) 93,076	(12) 98,901
(13) 1,400,138	(13) 201,974
8,400,828	1,211,844
9,100,897	1,312,831
23,102,277	3,332,571
(14) 13,635,996	(14) 36,155,064
16,425,177	43,550,418
20,144,055	53,410,890
219,105,663	580,946,142
(15) 637,461,852	(15) 637,461,852
7,611,863,389	7,613,863,389
3,945,286,288	3,945,286,288
(16) 250,434 + 1	(16) 50,050 + 1, 25,025 + 1
125,217 + 1	16,683 + 3, 12,512 + 5
83,478 + 1	10,010 + 1, 8,341 + 9
62,608 + 5	
50,086 + 9	
41,739 + 1	
(17) 233,369, 140,021 + 2.	(17) 306,339 + 2, 183,803 + 4
100,015 + 2, 77,789 + 6	131,288 + 3, 102,113 + 2
63,646 + 1, 58,342 + 3	83,547 + 2, 76,584 + 11
(18) 321,466, 128,586 + 2	(18) 403,245 + 1, 161,298 + 1
80,366 + 4, 58,448 + 4	100,811 + 3, 73,317 + 4
160,733, 71,436 + 8	201,622 + 3, 89,610 + 1

EXERCISE 22.

A	B
(1) 2,256,263	(1) 2,656,770
(2) 103,270	(2) 762,372
(3) 146,493	(3) 715,365
(4) 370,149	(4) 293,521
(5) 347,536,035	(5) 7,860,874,120
(6) 4,135,950,450	(6) 808,008,080
(7) 13 231 380 + 1	(7) 36,385,181
(8) 3,022	(8) 2,059

ANSWERS

TO

The Quarterly Arithmetic.

STANDARD III.

SIMPLE LONG DIVISION.

EXERCISE 1.

A

- (1) 397,134 ; 198,567 ;
132,378 ; 99,283 + 4.
- (2) 307,123 + 1 ; 184,274 ;
131,624 + 2 ; 102,374 + 4.
- (3) 100,160 + 2 ; 80,128 + 2 ;
66,773 + 4 ; 57,234 + 4.
- (4) 153,439 ; 131,519 + 1 ;
115,079 + 2 ; 102,292 + 6.
- (5) 90,080 + 5 ; 81,891 + 4 ;
75,067 + 1.
- (6) 36,472 + 1 ; 33,156 + 5 ;
30,393 + 5.
- (7) 67,077 + 5 ; 62,286 + 2 ;
58,133 + 11.
- (8) 36,909 + 9 ; 34,273 + 4 ;
31,988 + 6.
- (9) 74,909 + 4 ; 69,558 + 9 ;
64,921 + 6.
- (10) 55,822 + 8 ; 51,835 + 4 ;
48,379 + 9.
- (11) 22,108 + 12 ; 20,529 + 10 ;
19,161 + 1.
- (12) 16,156 + 7 ; 15,002 + 7 ;
14,002 + 5.

B

- (1) 61,728 ; 30,864 ;
20,576 ; 15,432.
- (2) 255,140 + 1 ; 153,084 + 1 ;
109,345 + 6 ; 85,046 + 7.
- (3) 226,054 ; 180,843 + 1 ;
150,702 + 4 ; 129,173 + 5.
- (4) 117,750 + 3 ; 100,929 ;
88,312 + 7 ; 78,500 + 3.
- (5) 29,872 + 1 ; 27,156 + 5 ;
24,893 + 5.
- (6) 64,212 + 6 ; 58,375 + 1 ;
53,510 + 6.
- (7) 56,129 + 7 ; 52,120 + 4 ;
48,645 + 9.
- (8) 30,570 + 11 ; 28,387 + 3 ;
26,494 + 11.
- (9) 63,203 + 8 ; 58,689 + 1 ;
54,776 + 7.
- (10) 15,389 + 6 ; 14,290 + 3 ;
13,337 + 8.
- (11) 63,115 + 6 ; 58,607 + 3 ;
54,700 + 1.
- (12) 30,571 + 5 ; 28,387 + 10 ;
26,495 + 3.

EXERCISE 1.—*Continued.*

A	B
(13) 55,511; 51,545 + 13; 48,109 + 8.	(13) 32,459 + 9; 30,141 + 2; 28,131 + 11.
(14) 71,397 + 10; 66,297 + 13; 61,878 + 1.	(14) 30,328 + 11; 28,162 + 7; 26,285.
(15) 7,770; 7,215. 6,734.	(15) 29,977 + 9; 27,836 + 6; 25,980 + 10.
(16) 33,654 + 17; 32,125 + 1; 30,728 + 7.	(16) 42,888 + 3; 40,938 + 15; 39,158 + 17.
(17) 14,225 + 7; 13,578 + 16; 12,988 + 8.	(17) 10,353 + 15; 9,883 + 2; 9,453 + 9.
(18) 32,343 + 15; 30,873 + 12; 29,531 + 5.	(18) 18,892 + 10; 18,033 + 16; 17,249 + 15.
(19) 9,787 + 8; 9,481 + 13; 9,194 + 3.	(19) 30,216 + 23; 29,272 + 15; 28,385 + 14.
(20) 23,528 + 16; 22,793 + 8; 22,102 + 18.	(20) 9,144 + 7; 8,858 + 15; 8,590 + 1.
(21) 6,617 + 9; 6,459 + 28; 6,309 + 19.	(21) 5,124 + 22; 5,002 + 22; 4,886 + 8.
(22) 17,790 + 25; 17,367 + 1; 16,963 + 6.	(22) 8,468, + 8; 8,266 + 24; 8,074 + 14.
(23) 5,631 + 12; 5,522 + 49; 5,418 + 39.	(23) 14,004 + 15; 13,734 + 51; 13,475 + 44.
(24) 8,404 + 37; 8,243 + 5; 8,087 + 30.	(24) 16,218 + 28; 15,906 + 34; 15,606 + 28.

EXERCISE 2.

A	B
(1) 7,220,140.	(1) 9,434,858.
(2) 23,406,433.	(2) 18,589,887.
(3) 15,335,898.	(3) 12,751,533.
(4) 19,624,139.	(4) 14,101,242.
(5) 19,808,206.	(5) 12,880,400.
(6) 608,651 + 10; 572,848 + 10; 541,023 + 12.	(6) 533,911; 502,504 + 8; 474,587 + 10.
(7) 246,754 + 11; 232,239 + 12; 219,337 + 9.	(7) 339,169 + 14; 319,218 + 12; 301,484 + 6.
(8) 587,730 + 5; 553,157 + 16; 522,426 + 17.	(8) 259,251; 244,000 + 16; 230,445 + 6.

EXERCISE 2.—Continued.

A	B
(9) 336,653 ; 266,516 + 23 ; 255,856 + 7.	(9) 139,252 + 18 ; 110,241 + 22 ; 105,832 + 6.
(10) 401,554 + 17 ; 317,897 + 15 ; 305,181 + 18.	(10) 194,506 + 7 ; 153,984 + 5 ; 147,824 + 21.
(11) 500,883 + 6 ; 396,532 + 15 ; 380,671 + 8.	(11) 498,346 + 17 ; 394,524 + 15 ; 378,743 + 16.
(12) 96,290 + 10 ; 93,539 + 5 ; 90,940 + 30.	(12) 41,324 ; 40,143 + 11 ; 39,028 + 8.
(13) 69,265 + 19 ; 67,726 + 9 ; 66,253 + 41.	(13) 172,500 ; 168,666 + 30 ; 165,000.
(14) 78,448 + 35 ; 77,022 + 17 ; 75,646 + 51.	(14) 136,149 + 43 ; 133,674 + 19 ; 131,287 + 17.
(15) 19,948 + 32 ; 19,641 + 39 ; 19,344.	(15) 49,688 + 42 ; 48,924 + 14 ; 48,182 + 62.
(16) 102,476 + 45 ; 101,110 + 19. 99,779 + 65.	(16) 106,847 + 47 ; 105,423 ; 104,035 + 65.
(17) 99,401 + 77 ; 98,232 + 41 ; 97,090 + 21.	(17) 97,823 + 76 ; 96,673 + 3 ; 95,548 + 80.
(18) 105,064 + 2 ; 103,958 + 8 ; 102,875 + 18.	(18) 40,387 + 32 ; 39,962 + 20 ; 39,545 + 90.
(19) 201,137 + 17 ; 193,954 + 4 ; 187,266 + 2.	(19) 101,993 + 10 ; 98,350 + 21 ; 94,959 + 10.
(20) 86,206 + 33 ; 83,938 + 11 ; 81,786 + 1.	(20) 81,243 + 10 ; 79,105 + 11 ; 77,076 + 37.
(21) 39,036 + 29 ; 38,223 + 17 ; 32,188 + 5.	(21) 85,472 + 21 ; 83,691 + 37 ; 70,477 + 16.
(22) 161,745 + 45 ; 140,338 + 16 ; 120,797 + 37.	(22) 52,325 + 41 ; 45,400 + 16 ; 39,078 + 54.
(23) 83,340 + 30 ; 73,985 + 80 ; 73,238 + 48.	(23) 104,408 + 60 ; 92,684 + 89 ; 91,748 + 69.

EXERCISE 3.

A	B
(1) 485,327 + 3 ; 323,551 + 13 ; 242,663 + 23.	(1) 311,798 + 12 ; 207,865 + 22 ; 155,899 + 12.
(2) 130,021 + 17 ; 97,516 + 7 ; 78,012 + 47.	(2) 305,476 + 18 ; 229,107 + 18 ; 183,285 + 48.
(3) 180,050 + 22 ; 144,040 + 22 ; 120,033 + 42.	(3) 160,729 + 18 ; 128,583 + 28 ; 107,152 + 58.

EXERCISE 3.—*Continued.*

A

- (4) $199,999 + 49$; $166,666 + 39$;
 $142,857 + 9$.
- (5) $65,107 + 7$; $55,806 + 7$;
 $48,830 + 27$.
- (6) $129,530 + 12$; $113,338 + 72$;
 $100,745 + 62$.
- (7) $34,158 + 65$; $38,428 + 45$;
 $43,918 + 25$.
- (8) $71,607 + 12$; $85928 + 32$;
 $107,410 + 32$.
- (9) $70,964 + 30$; $35,482 + 30$.
- (10) $30,166 + 18$; $20,110 + 218$.
- (11) $19,806 + 264$; $14,855 + 64$.
- (12) $3,409 + 332$; $2,727 + 432$.
- (13) $7,800 + 412$; $6,500 + 412$.
- (14) $5,325 + 225$; $4,564 + 425$.
- (15) $4,311 + 244$; $3,772 + 344$.
- (16) $8,048 + 124$; $7,153 + 824$.
- (17) $7,791 + 739$; $63,751 + 29$.
- (18) $27,345 + 166$; $18,230 + 166$.
- (19) $20,202$; $16,161 + 330$.
- (20) $9,500 + 1$; $8,142 + 661$.
- (21) $9,046 + 260$; $8,041 + 150$.
- (22) $20,360 + 16$; $10,180 + 16$.
- (23) $21,198 + 15$; $15,898 + 217$.
- (24) $16,168 + 367$; $13,473 + 569$.
- (25) $6,506 + 258$; $5,693 + 56$.
- (26) $6,639 + 253$; $8,524 + 112$.
- (27) $11,535 + 84$; $7,593 + 108$.
- (28) $7,082 + 258$; $11,851 + 290$.
- (29) $8,024 + 139$; $14,612 + 87$.
- (30) $16,107 + 454$; $11,820 + 427$.
- (31) $2,976 + 41$; $1,977 + 14$.
- (32) $10,415 + 391$; $5,404 + 498$.

B

- (4) $150,124 + 47$; $125,104 + 7$;
 $107,232 + 7$.
- (5) $26,990 + 25$; $23,134 + 45$;
 $20,242 + 65$.
- (6) $137,831 + 57$; $120,602 + 67$;
 $107,202 + 47$.
- (7) $32,427 + 33$; $36,480 + 63$;
 $41,692 + 23$.
- (8) $33,460 + 42$; $40,152 + 42$;
 $50,191 + 2$.
- (9) $53,721 + 46$; $26,860 + 146$.
- (10) $27,081 + 37$; $18,054 + 37$.
- (11) $24,230 + 104$; $18,172 + 304$.
- (12) $18,951 + 224$; $15,161 + 124$.
- (13) $18,127 + 18$; $15,105 + 518$.
- (14) $10,025 + 263$; $8,593 + 163$.
- (15) $2,881 + 105$; $2,521 + 5$.
- (16) $521 + 465$; $463 + 565$.
- (17) $2,389 + 663$; $19,552 + 43$.
- (18) $32,110 + 86$; $21,406 + 306$.
- (19) $16,878 + 66$; $13,502 + 286$.
- (20) $14,283 + 177$; $12,242 + 617$.
- (21) $7,131 + 634$; $6,339 + 304$.
- (22) $86,771 + 71$; $43,385 + 172$.
- (23) $20,775 + 11$; $15,581 + 112$.
- (24) $14,627 + 308$; $12,189 + 409$.
- (25) $9,609 + 294$; $8,408 + 193$.
- (26) $5,907 + 23$; $7,584 + 14$.
- (27) $40,314 + 75$; $26,537 + 156$.
- (28) $13,062 + 48$; $21,858 + 78$.
- (29) $13,842 + 303$; $25,207 + 160$.
- (30) $4,947 + 63$; $3,630 + 306$.
- (31) $10,076 + 248$; $6,693 + 513$.
- (32) $11,834 + 193$; $6,140 + 567$.

EXERCISE 4.

A

- (1) $101,862 \div 86$; $20,028 \div 8$.
- (2) $210,004 \div 10$; $20,073 \div 134$.
- (3) $105,772 \div 33$; $10,005 \div 203$.
- (4) $102,293 \div 15$; $10,253 \div 314$.
- (5) $20,000 \div 100$; $30,048 \div 68$.
- (6) $20,024 \div 33$; $10,050 \div 51$.
- (7) $10,000 \div 1$; $30,000 \div 1$.
- (8) $20,009 \div 98$; $10,051 \div 391$.
- (9) $5,560 \div 804$; $2,777 \div 1,250$.
- (10) $582 \div 1,071$; $436 \div 1,327$.
- (11) $404 \div 615$; $336 \div 2,599$.
- (12) $498 \div 6,163$; $436 \div 675$.
- (13) $901 \div 7,381$; $800 \div 8,181$.
- (14) $2,542 \div 213$; $1,271 \div 213$.
- (15) $2,489 \div 2,758$; $1,867 \div 1,658$.
- (16) $399 \div 1,971$; $332 \div 5,271$.
- (17) $497 \div 263$; $434 \div 7,963$.
- (18) $951 \div 6,638$; $4,641 \div 308$.
- (19) $329 \div 841$; $247 \div 651$.
- (20) $606 \div 774$; $505 \div 1,784$.
- (21) $309 \div 6,121$; $271 \div 1,451$.
- (22) $531 \div 6,006$; $602 \div 3,966$.
- (23) $956 \div 877$; $841 \div 1,853$.
- (24) $463 \div 1,727$; $551 \div 699$.
- (25) $2,338 \div 2,834$; $1,188 \div 7,372$.
- (26) $2,712 \div 1,135$; $445 \div 5,990$.
- (27) $1,111 \div 1,089$; $291 \div 8,802$.
- (28) $496 \div 4,211$; $554 \div 1,907$.
- (29) $371 \div 7,595$; $545 \div 6,228$.
- (30) $550 \div 5,468$; $600 \div 3,168$.
- (31) $608 \div 599$; $460 \div 55$.
- (32) $202 \div 2,202$; $227 \div 4,424$.

B

- (1) $102,110 \div 4$; $19,992 \div 34$.
- (2) $100,130 \div 70$; $10,000 \div 730$.
- (3) $100,008 \div 62$; $10,014 \div 572$.
- (4) $103,442 \div 31$; $10,019 \div 127$.
- (5) $10,064 \div 65$; $20,035 \div 45$.
- (6) $10,001 \div 113$; $20,034 \div 194$.
- (7) $20,002 \div 412$; $10,001 \div 412$.
- (8) $10,015 \div 98$; $20,092 \div 7$.
- (9) $7,632 \div 109$; $3,812 \div 485$.
- (10) $2,243 \div 2,920$; $1,681 \div 1,196$.
- (11) $1,316 \div 4,372$; $1,096 \div 1,796$.
- (12) $536 \div 2,908$; $468 \div 7,164$.
- (13) $509 \div 38$; $452 \div 2,006$.
- (14) $3,906 \div 931$; $1,953 \div 931$.
- (15) $2,232 \div 2,825$; $1,674 \div 2,825$.
- (16) $687 \div 4,195$; $573 \div 895$.
- (17) $978 \div 464$; $855 \div 7,064$.
- (18) $599 \div 5,927$; $2,925 \div 74$.
- (19) $3,099 \div 663$; $2,326 \div 1,323$.
- (20) $1,743 \div 3,182$; $1,453 \div 3,052$.
- (21) $582 \div 2,989$; $509 \div 5,739$.
- (22) $860 \div 4,161$; $975 \div 796$.
- (23) $860 \div 7,916$; $757 \div 4,380$.
- (24) $1,152 \div 2,495$; $1,370 \div 4,509$.
- (25) $386 \div 1,035$; $196 \div 2,821$.
- (26) $1,714 \div 379$; $281 \div 5,574$.
- (27) $508 \div 1,609$; $133 \div 1,693$.
- (28) $976 \div 4,997$; $1,090 \div 1,445$.
- (29) $949 \div 2,829$; $1,393 \div 6,422$.
- (30) $1,048 \div 3,238$; $1,143 \div 770$.
- (31) $1,440 \div 1,187$; $1,089 \div 2,483$.
- (32) $462 \div 1,582$; $519 \div 8,248$.

EXERCISE 5.

A

- (1) $2,338 \div 80$.
- (2) $22,290 \div 30$.
- (3) $84,587 \div 73$.

B

- (1) $4,298 \div 105$.
- (2) $15,185 \div 19$.
- (3) $30,415 \div 7$.

EXERCISE 5.—*Continued.*

A	B
(4) 970 + 118.	(4) 77,420 + 57.
(5) 8,894 + 355.	(5) 9,339 + 47.
(6) 45,378 + 20.	(6) 36,935 + 179.
(7) 72,693 + 117.	(7) 1,746 + 254.
(8) 21,754 + 7.	(8) 3,448 + 180.
(9) 966 + 68.	(9) 9,262 + 260.

EXERCISE 6.

A	B
(1) 35,634 + 4.	(1) 641 + 203.
(2) 28,251 + 5.	(2) 6,594.
(3) 46,703 + 20.	(3) 832 + 214.
(4) 63,492 + 61.	(4) 6,139 + 79.
(5) 18,925 + 200.	(5) 2,425 + 678.
(6) 57,009 + 50.	(6) 1,333 + 1.
(7) 64,548.	(7) 21,534 + 124.
(8) 7,037 + 124.	(8) 9,491 + 427.

EASY PROBLEMS IN DIVISION.

EXERCISE 7.

A	B
(1) 149 marbles.	(1) 70 horses.
(2) 48,309 slates.	(2) 172 miles.
(3) 22 acres.	(3) 1,283 pounds.
(4) 3,070 nuts.	(4) 4,229 + 15 boxes of figs.
(5) 107 years.	(5) 3,890ft. of gas per day.
(6) 500 days.	(6) 364 trees in each row.
(7) 28 + 60 soldiers.	(7) 4,328 bricks.

REDUCTION OF MONEY.

EXERCISE 8.

A	B
(1) 20s. ; 40s. ; 60s.	(1) 20s. ; 40s. ; 60s.
(2) 80s. ; 100s. ; 120s.	(2) 140s. ; 160s. ; 180s.
(3) 340s. ; 480s.	(3) 320s. ; 440s.
(4) 1,920s. ; 1,660s.	(4) 1,800s. ; 1,820s.
(5) 2,540s. ; 4,760s.	(5) 2,480s. ; 6,560s.

EXERCISE 8.—*Continued.*

A	B
(6) 14,820s. ; 7,380s.	(6) 12,400s. ; 5,740s.
(7) 184,320s. ; 76,500s.	(7) 126,300s. ; 84,700s.
(8) 79,280s. ; 34,520s.	(8) 75,380s. ; 169,540s.
(9) 12d. ; 36d. ; 60d.	(9) 24d. ; 48d. ; 72d.
(10) 48d. ; 72d. ; 96d.	(10) 108d. ; 36d. ; 84d.
(11) 204d. ; 228d.	(11) 216d. ; 168d.
(12) 168d. ; 216d.	(12) 180d. ; 204d.
(13) 768d. ; 2,892d.	(13) 900d. ; 2,664d.
(14) 1,032d. ; 11,568d.	(14) 1,008d. ; 10,512d.
(15) 3,564d. ; 46,188d.	(15) 3,192d. ; 68,952d.
(16) 3,180d. ; 23,556d.	(16) 4,368d. ; 23,712d.
(17) 48 fars. ; 96 fars.	(17) 52 fars. ; 164 fars.
(18) 52 fars. ; 188 fars.	(18) 84 fars. ; 140 fars.
(19) 104 fars. ; 284 fars.	(19) 108 fars. ; 292 fars.
(20) 244 fars. ; 316 fars.	(20) 240 fars. ; 232 fars.
(21) 1,188 fars. ; 3,944 fars.	(21) 860 fars. ; 3,476 fars.
(22) 1,888 fars. ; 724 fars.	(22) 1,664 fars. ; 472 fars.
(23) 1,484 fars. ; 7,708 fars.	(23) 1,268 fars. ; 7,300 fars.
(24) 1,684 fars. ; 15,308 fars.	(24) 1,648 fars. ; 15,128 fars.
(25) 2,620 fars. ; 3,818 fars.	(25) 2,504 fars. ; 3,722 fars.
(26) 12,352 fars. ; 8,469 fars.	(26) 13,276 fars. ; 7,140 fars.
(27) 14,092 fars. ; 8,279 fars.	(27) 17,200 fars. ; 6,281 fars.
(28) 18,736 fars. ; 7,186 fars.	(28) 23,530 fars. ; 20,935 fars.
(29) 30,405 fars. ; 33,253 fars.	(29) 31,452 fars. ; 30,304 fars.
(30) 46,106 fars. ; 261,040 fars.	(30) 46,398 fars. ; 211,177 fars.
(31) 37,749 fars. ; 380,853 fars.	(31) 35,073 fars. ; 373,236 fars.
(32) 45,429 fars. ; 294,607 fars.	(32) 49,007 fars. ; 202,974 fars.
(33) 90,893 fars. ; 209,974 fars.	(33) 69,562 fars. ; 304,811 fars.
(34) 28,586 fars. ; 102,229 fars.	(34) 31,607 fars. ; 139,078 fars.

EXERCISE 9.

A	B
(1) 6d. ; 9d.	(1) $5\frac{1}{2}$ d. ; $9\frac{1}{4}$ d.
(2) 4d. ; 12d.	(2) $4\frac{1}{4}$ d. ; $9\frac{3}{4}$ d.
(3) 59d. ; $99\frac{1}{4}$ d.	(3) $79\frac{1}{2}$ d. ; 123d.
(4) $120\frac{1}{4}$ d. ; $72\frac{3}{4}$ d.	(4) $56\frac{1}{2}$ d. ; $100\frac{1}{4}$ d.
(5) $92\frac{1}{4}$ d. ; 118d.	(5) 94d. ; $105\frac{1}{2}$ d.
(6) $98\frac{1}{2}$ d. ; $71\frac{1}{2}$ d.	(6) 78d. ; $170\frac{1}{2}$ d.

EXERCISE 9.—*Continued.*

A

- (7) 2,303 $\frac{3}{4}$ d. ; 956 $\frac{1}{2}$ d.
 (8) 2,296 $\frac{1}{2}$ d. ; 1,823 $\frac{1}{4}$ d.
 (9) 63s. 8d. ; 24s. 9d.
 (10) 31s. 10d. ; 35s. 1d.
 (11) 30s. 9d. ; 20s. 1d.
 (12) 27s. 3d. ; 11s. 4d.
 (13) 55s. 11d. ; 35s. 7d.
 (14) 24s. 8d. ; 30s. 4d.
 (15) 32s. 0d. ; 81s. 0d.
 (16) 80s. 5d. ; 40s. 3d.
 (17) £19 6s. 0d. ; £21 5s. 0d.
 (18) £14 17s. 0d. ; £23 3s. 0d.
 (19) £29 17s. 0d. ; £13 7s. 0d.
 (20) £19 17s. 0d. ; £21 6s. 0d.
 (21) £39 13s. 0d. ; £14 6s. 0d.
 (22) £13 1s. 0d. ; £39 12s. 0d.
 (23) £19 4s. 0d. ; £9 10s. 0d.
 (24) £33 11s. 0d. ; £13 14s. 0d.
 (25) 3s. 0d. ; 4s. 1 $\frac{3}{4}$ d. ; 5s. 5d.
 (26) 8s. 0 $\frac{1}{4}$ d. ; 3s. 6d. ; 3s. 9 $\frac{3}{4}$ d.
 (27) 7s. 1d. ; 9s. 10 $\frac{1}{4}$ d. ; 3s. 9d.
 (28) 2s. 8d. ; 3s. 7 $\frac{1}{4}$ d. ; 17s. 0 $\frac{1}{4}$ d.
 (29) £9 14s. 1 $\frac{1}{4}$ d. ; £8 11s. 6 $\frac{3}{4}$ d.
 (30) £10 8s. 3 $\frac{3}{4}$ d. ; £10 0s. 11 $\frac{3}{4}$ d.
 (31) 14s. 2d. ; £1 7s. 0d. ;
 £2 7s. 0d.
 (32) £3 3s. 3d. ; £2 18s. 0d. ;
 £3 11s. 1d.
 (33) £1 8s. 9d. ; £3 12s. 9d. ;
 £1 3s. 9d.
 (34) £37 19s. 0d. ; £32 7s. 0d. ;
 £46 13s. 0d.
 (35) £14 0s. 0d. ; £8 13s. 0d. ;
 £38 8s. 0d.
 (36) £36 19s. 0d. ; £24 3s. 0d. ;
 £9 11s. 0d.

B

- (7) 1,882 $\frac{1}{4}$ d. ; 1,705 $\frac{3}{4}$ d.
 (8) 496 $\frac{3}{4}$ d. ; 2,182 $\frac{1}{4}$ d.
 (9) 51s. 11d. ; 23s. 3d.
 (10) 19s. 9d. ; 18s. 3d.
 (11) 26s. 5d. ; 34s. 10d.
 (12) 35s. 8d. ; 39s. 11d.
 (13) 51s. 6d. ; 59s. 9d.
 (14) 43s. 8d. ; 67s. 8d.
 (15) 67s. 3d. ; 80s. 5d.
 (16) 47s. 5d. ; 69s. 6d.
 (17) £17 17s. 0d. ; £26 3s. 0d.
 (18) £33 18s. 0d. ; £48 10s. 0d.
 (19) £20 12s. 0d. ; £46 4s. 0d.
 (20) £10 8s. 0d. ; £33 11s. 0d.
 (21) £34 14s. 0d. ; £35 18s. 0d.
 (22) £42 5s. 0d. ; £25 15s. 0d.
 (23) £12 12s. 0d. ; £14 8s. 0d.
 (24) £33 11s. 0d. ; £9 10s. 0d.
 (25) 2s. 9 $\frac{1}{4}$ d. ; 4s. 1 $\frac{3}{4}$ d. ; 5s. 3 $\frac{1}{4}$ d.
 (26) 8s. 7 $\frac{1}{2}$ d. ; 3s. 8 $\frac{1}{4}$ d. ; 8s. 8d.
 (27) 12s. 11 $\frac{1}{4}$ d. ; 8s. 7 $\frac{1}{4}$ d. ; 16s. 5d.
 (28) 4s. 4d. ; 12s. 9d. ; 18s. 6 $\frac{3}{4}$ d.
 (29) £4 18s. 3 $\frac{3}{4}$ d. ; £2 9s. 9 $\frac{1}{4}$ d.
 (30) £9 3s. 1 $\frac{3}{4}$ d. ; £3 12s. 5d.
 (31) 18s. 3d. ; £1 18s. 6d. ;
 £2 13s. 7d.
 (32) £1 11s. 6d. ; £2 11s. 11d. ;
 £1 15s. 1d.
 (33) £3 16s. 0d. ; £1 17s. 7d. ;
 £1 0s. 8d.
 (34) £43 10s. 0d. ; £37 2s. 0d. ;
 £33 11s. 0d.
 (35) £25 17s. 0d. ; £10 9s. 0d. ;
 £10 18s. 0d.
 (36) £19 5s. 0d. ; £45 8s. 0d. ;
 £45 17s. 0d.

COMPOUND ADDITION.

EXERCISE 10.

A		B	
s.	d.	s.	d.
(1)	$\frac{3}{4}$	(13)	11
(2)	$1\frac{1}{2}$	(14)	$10\frac{3}{4}$
(3)	$2\frac{1}{4}$	(15)	1 2
(4)	$1\frac{1}{2}$	(16)	10
(5)	$1\frac{3}{4}$	(17)	$7\frac{1}{2}$
(6)	$1\frac{3}{4}$	(18)	1 $0\frac{3}{4}$
(7)	1	(19)	1 4
(8)	$1\frac{1}{4}$	(20)	1 $7\frac{1}{4}$
(9)	$10\frac{1}{2}$	(21)	1 $9\frac{1}{2}$
(10)	$10\frac{1}{2}$	(22)	1 $8\frac{1}{2}$
(11)	$7\frac{1}{4}$	(23)	2 0
(12)	1 $1\frac{1}{2}$	(24)	2 $1\frac{1}{4}$

EXERCISE 11.

A			B				
£	s.	d.	£	s.	d.		
(1)	1	2	$10\frac{3}{4}$	(10)	2	2	6
(2)	1	0	7	(11)	1	9	$2\frac{1}{4}$
(3)	18	5	$\frac{1}{2}$	(12)	1	4	$5\frac{1}{4}$
(4)	19	4	$\frac{1}{4}$	(13)	2	16	7
(5)	8	7	$\frac{3}{4}$	(14)	2	3	$4\frac{3}{4}$
(6)	15	8	$\frac{1}{2}$	(15)	2	4	$8\frac{3}{4}$
(7)	2	1	$4\frac{1}{2}$	(16)	2	8	$4\frac{1}{4}$
(8)	2	7	$5\frac{1}{4}$	(17)	3	7	8
(9)	2	10	$3\frac{1}{2}$	(18)	1	18	$10\frac{1}{2}$

EXERCISE 12.

A			B				
£	s.	d.	£	s.	d.		
(1)	26	12	11	(7)	85	2	10
(2)	21	18	2	(8)	84	8	$10\frac{1}{2}$
(3)	24	19	11	(9)	49	13	$11\frac{1}{2}$
(4)	44	19	11	(10)	81	7	$3\frac{1}{2}$
(5)	68	9	$11\frac{1}{2}$	(11)	125	8	8
(6)	68	5	$2\frac{3}{4}$	(12)	66	10	$2\frac{3}{4}$

EXERCISE 13.

A				B			
	£	s.	d.		£	s.	d.
(1)	2,542	13	6.	(1)	4,160	13	8½.
(2)	3,932	16	3½.	(2)	3,424	13	0½.
(3)	2,971	16	3½.	(3)	2,680	18	10.
(4)	3,629	16	5½.	(4)	2,697	16	5½.
(5)	49,690	13	0½.	(5)	42,822	11	11½.
(6)	46,093	9	10.	(6)	50,084	1	8½.
(7)	38,030	12	11.	(7)	46,600	6	9.
(8)	32,728	6	10.	(8)	50,200	2	7½.

EXERCISE 14.

A				B			
	£	s.	d.		£	s.	d.
(1)	2,818	19	6.	(1)	1,605	19	6½.
(2)	2,259	4	4½.	(2)	1,308	8	9½.
(3)	1,866	0	11½.	(3)	2,105	15	3½.
(4)	2,026	17	11½.	(4)	1,520	9	11.
(5)	1,985,201	13	1½.	(5)	3,029,876	3	1½.
(6)	2,062,363	7	8.	(6)	3,713,179	17	8½.
(7)	1,587,212	5	6½.	(7)	3,683,315	7	0½.

EXERCISE 15.

A			B		
s.	d.	£ s. d.	s.	d.	£ s. d.
(1)	1 8½	(11) 1 9 2½	(1)	8½	(11) 1 14 2½
(2)	2 6½	(12) 1 7 5½	(2)	8½	(12) 2 3 3½
(3)	3 8	(13) 1 13 2½	(3)	1 2	(13) 1 10 10½
(4)	2 9½	(14) 1 13 8½	(4)	2 3½	(14) 2 0 9½
(5)	3 1	(15) 3 2 10	(5)	2 8	(15) 2 19 11
(6)	1 4½	(16) 32 2 7½	(6)	1 9½	(16) 33 9 6½
(7)	2 8½	(17) 41 15 5½	(7)	1 8	(17) 54 5 1½
(8)	2 6	(18) 31 13 3½	(8)	1 2½	(18) 32 13 5
(9)	2 10½	(19) 35 14 4	(9)	1 10½	(19) 26 1 9½
(10)	3 6½	(20) 47 0 8½	(10)	3 3½	(20) 41 9 11½

EXERCISE 16.

A				B			
	£	s.	d.		£	s.	d.
(1)	1,620	16	8	(1)	2,073	5	1
(2)	2,096	5	7 $\frac{1}{4}$	(2)	1,742	9	7 $\frac{3}{4}$
(3)	877	17	2 $\frac{3}{4}$	(3)	2,550	4	3
(4)	918	7	6 $\frac{1}{4}$	(4)	2,194	4	9 $\frac{3}{4}$
(5)	909	10	10 $\frac{1}{2}$	(5)	2,508	18	0
(6)	7,674	12	11 $\frac{3}{4}$	(6)	25,176	7	5
(7)	38,488	16	0 $\frac{1}{2}$	(7)	29,501	14	7 $\frac{1}{4}$
(8)	8,025	11	3 $\frac{1}{2}$	(8)	21,823	17	10 $\frac{3}{4}$
(9)	13,315	19	1 $\frac{3}{4}$	(9)	22,997	3	6 $\frac{1}{2}$

EXERCISE 17.

A				B			
	£	s.	d.		£	s.	d.
(1)	23,822	14	8 $\frac{1}{4}$	(1)	29,411	8	5 $\frac{1}{2}$
(2)	117,045	9	11	(2)	25,120	2	6
(3)	97,102	14	11 $\frac{3}{4}$	(3)	123,028	8	7
(4)	151,577	14	11 $\frac{1}{4}$	(4)	139,828	15	0 $\frac{3}{4}$

EXERCISE 18.

A				B			
	£	s.	d.		£	s.	d.
(1)	63,563	13	1 $\frac{1}{2}$	(1)	232,703	13	0
(2)	712,202	3	0	(2)	62,762	9	10
(3)	143,645	11	10 $\frac{1}{2}$	(3)	95,169	17	1 $\frac{1}{4}$

Easy Problems in Compound Addition.

EXERCISE 19.

A				B			
	£	s.	d.		£	s.	d.
(1)	28	12	6	(1)	40	12	6
(2)	4	9	6	(2)	11	17	0
(3)	150	0	0	(3)	10	14	4 $\frac{1}{2}$
(4)	10	14	4 $\frac{1}{2}$	(4)	367	13	3 $\frac{1}{2}$
(5)	45	0	0	(5)	22	2	0
(6)	213	15	10	(6)	217,298		
(7)	636	17	6 $\frac{3}{4}$	(7)	£39	16	1

COMPOUND SUBTRACTION.**EXERCISE 20.**

A						B		
£	s.	d.	£	s.	d.	£	s.	d.
(1)	34	3 7	(7)	43	4 5½	(1)	20	1 6
(2)	21	5 5	(8)	63	7 3	(2)	50	9 1
(3)	42	4 3	(9)	43	8 4¼	(3)	27	5 6
(4)	52	6 5	(10)	31	2 2¼	(4)	64	7 6
(5)	22	13 4½	(11)	33	1 5	(5)	21	2 6½
(6)	21	8 1¼	(12)	32	6 1¼	(6)	47	1 1¼
						(7)	68	10 8½
						(8)	26	6 4¼
						(9)	10	12 4½
						(10)	7	4 4¼
						(11)	62	6 1¼
						(12)	11	1 1¼

EXERCISE 21.

A						B		
£	s.	d.	£	s.	d.	£	s.	d.
(1)	4	3 2¾	(7)	11	2 11¼	(1)	7	4 3¼
(2)	16	2 3¾	(8)	22	3 11¼	(2)	5	8 6¼
(3)	21	3 2¾	(9)	52	16 2¼	(3)	14	9 2¾
(4)	9	3 2½	(10)	71	17 1¼	(4)	8	5 1¾
(5)	51	1 9	(11)	15	9 6¼	(5)	55	10 6¼
(6)	11	11 8¼	(12)	81	19 3¼	(6)	40	0 11¼
						(7)	21	4 6½
						(8)	12	0 9¼
						(9)	11	18 2½
						(10)	11	18 2¼
						(11)	56	4 1½
						(12)	57	14 4½

EXERCISE 22.

A			B		
£	s.	d.	£	s.	d.
(1)	55	15 10¼	(1)	91	1 4¾
(2)	41	11 9¾	(2)	36	19 1¾
(3)	31	16 8	(3)	42	15 4¼
(4)	82	17 10¼	(4)	22	15 0¾
(5)	11	3 10	(5)	27	0 11¾
(6)	22	7 7¼	(6)	25	0 0¾
(7)	48	7 10	(7)	56	16 8¾
(8)	3	17 5½	(8)	17	19 0½
(9)	52	16 0½	(9)	7	0 5¼
(10)	50	16 8¾	(10)	65	13 4
(11)	56	13 2¾	(11)	28	18 2½
(12)	26	19 1	(12)	38	3 0¾
(13)	6	10 7¼	(13)	801	15 7¼
(14)	883	18 6¼	(14)	706	19 6¼
(15)	283	19 4¾	(15)	708	15 7¼
(16)	255	16 0¾	(16)	396	5 11

EXERCISE 23.

A				B			
	£	s.	d.		£	s.	d.
(1)	96	5	9 $\frac{3}{4}$	(1)	421	2	2 $\frac{3}{4}$
(2)	81	19	10	(2)	13	8	11
(3)	507	3	4 $\frac{3}{4}$	(3)	22	13	7 $\frac{1}{2}$
(4)	495	17	0	(4)	319	13	2 $\frac{3}{4}$
(5)	367	15	4 $\frac{1}{2}$	(5)	723	8	9 $\frac{3}{4}$
(6)	299	19	11 $\frac{3}{4}$	(6)	881	13	10 $\frac{3}{4}$
(7)	92	19	11 $\frac{1}{2}$	(7)	904	1	10 $\frac{1}{4}$
(8)	209	10	9 $\frac{3}{4}$	(8)	23	16	11 $\frac{1}{2}$
(9)	699	17	10	(9)	737	18	6 $\frac{3}{4}$
(10)	190	4	5 $\frac{1}{2}$	(10)	37	14	8 $\frac{3}{4}$
(11)	27	4	5 $\frac{3}{4}$	(11)	553	16	8 $\frac{3}{4}$
(12)	121	0	3 $\frac{3}{4}$	(12)	183	15	9 $\frac{3}{4}$
(13)	118	18	8 $\frac{1}{2}$	(13)	86	11	5 $\frac{1}{2}$
(14)	600	19	11 $\frac{3}{4}$	(14)	570	17	8 $\frac{3}{4}$
(15)	209	6	3 $\frac{1}{2}$	(15)	527	17	0 $\frac{3}{4}$
(16)	809	13	7 $\frac{1}{4}$	(16)	607	11	11 $\frac{1}{4}$
(17)	30	0	11 $\frac{1}{2}$	(17)	731	15	4 $\frac{1}{4}$
(18)	227	9	11 $\frac{1}{4}$	(18)	306	17	8 $\frac{3}{4}$
(19)	651	8	3 $\frac{1}{4}$	(19)	815	9	8 $\frac{1}{2}$
(20)	511	16	7 $\frac{1}{2}$	(20)	114	17	0 $\frac{3}{4}$
(21)	7,532	3	6 $\frac{1}{4}$	(21)	7,410	18	1 $\frac{1}{2}$
(22)	8,103	8	10 $\frac{3}{4}$	(22)	9,032	7	2 $\frac{1}{4}$
(23)	9,214	10	5 $\frac{1}{2}$	(23)	10,381	8	1 $\frac{1}{2}$
(24)	10,565	2	3 $\frac{1}{2}$	(24)	10,746	3	0 $\frac{3}{4}$
(25)	10,929	0	1 $\frac{1}{2}$	(25)	12,183	2	5 $\frac{1}{2}$
(26)	12,367	4	1	(26)	12,543	4	3 $\frac{1}{2}$

EXERCISE 24.

A				B			
	£	s.	d.		£	s.	d.
(1)	31	11	1 $\frac{1}{4}$	(1)	318	4	2 $\frac{3}{4}$
(2)	310	9	10 $\frac{1}{4}$	(2)	247	16	2 $\frac{1}{2}$
(3)	178	18	5 $\frac{1}{2}$	(3)	1,291	18	3 $\frac{3}{4}$
(4)	699,931	2	6 $\frac{1}{2}$	(4)	0	17	9 $\frac{1}{2}$
(5)	999,990	0	3	(5)	80	7	0 $\frac{1}{4}$
(6)	300,001	11	3 $\frac{1}{4}$	(6)	244,860	19	11 $\frac{3}{4}$
(7)	3,887,407	19	9 $\frac{1}{2}$	(7)	3,905,214	9	4

EXERCISE 25.

A				B			
	£	s.	d.		£	s.	d.
(1)	82,832	13	8½	(1)	93,598	7	11½
(2)	5,848	17	9¾	(2)	5,478	7	5
(3)	499,999	0	2½	(3)	18	4	9½
(4)	6,099,990	19	3	(4)	267,785	16	0
(5)	677,496	18	11½	(5)	13,011	17	11½
(6)	700,690	19	2¾	(6)	799,949	15	3
(7)	799,826	2	2	(7)	212,622	1	1¼
(8)	349,406	19	11½	(8)	307,184	13	2½

EXERCISE 26.

A				B			
	£	s.	d.		£	s.	d.
(1)	11	8½		(1)	8	4	3¼
(2)	366	6	8½	(2)	14	8½	
(3)	1	12	3½	(3)	1	17	7¾
(4)	18	17	6	(4)	1	14	2¾
(5)	19	11		(5)	10	11½	
(6)	52	0	6	(6)	19	1	10¾
(7)	29	1	6¾	(7)	49	2	10¾
(8)	1	5	0¾	(8)	15	7	9½
(9)	38	5	0	(9)	8,511	2	0

EXERCISE 27.

A				B			
	£	s.	d.		£	s.	d.
(1)		5	6	(1)	302	4	9¾
(2)	652	10	2½	(2)	3	11	7½
(3)	329	18	9½	(3)	412	18	11½
(4)	63	3	3	(4)	150	9	0¼
(5)	1	3	0¼	(5)	220	7	5¾
(6)	968	0	0	(6)	8,465	0	0
(7)	1319	16	7	(7)	2	14	0

EXERCISE 28.

- | A | B |
|---------------------------------|-----------------------------------|
| (1) 3,600 seconds. | (1) £49 2s. 6d. price of horse. |
| (2) £39 3s. 6d. owing still. | (2) 10,008 boxes. |
| (3) £18 4s. | (3) £200 still owing. |
| (4) £7 10s. gain. | (4) £50 per acre. |
| (5) £12 5s. 4d. price of cart. | (5) 5,016 times. |
| (6) £3,234 5s. 6½d. gains. | (6) £321 2s. 10¾d. entire profit. |
| (7) £3 6s. 3¾d. additional sum. | (7) 10s. 7d. change. |

REDUCTION—MONEY.

EXERCISE 29.

- | A | B |
|--------------------------|---------------------------|
| (1) 2,148 halfpence. | (1) 2,868 halfpence. |
| (2) 3,839 „ | (2) 4,263 „ |
| (3) 1,547 „ | (3) 2,045 „ |
| (4) 2,385 threepences. | (4) 4,633 threepences. |
| (5) 7,571 „ | (5) 6,370 „ |
| (6) 5,854 „ | (6) 3,240 „ |
| (7) 4,550 fourpences. | (7) 2,380 fourpences. |
| (8) 5,677 „ | (8) 5,253 „ |
| (9) 4,407 „ | (9) 2,654 „ |
| (10) 1,515 sixpences. | (10) 2,905 sixpences. |
| (11) 3,868 „ | (11) 3,355 „ |
| (12) 2,801 „ | (12) 3,906 „ |
| (13) 1,220 „ | (13) 2,096 „ |
| (14) 1,853 shillings. | (14) 1,558 shillings. |
| (15) 1,479 „ | (15) 1,850 „ |
| (16) 674 florins. | (16) 724 florins. |
| (17) 977 „ | (17) 837 „ |
| (18) 590 half-crowns. | (18) 473 half-crowns. |
| (19) 743 „ | (19) 219 „ |
| (20) 271 crowns. | (20) 379 crowns. |
| (21) 3 06 „ | (21) 318 „ |
| (22) 85 half-sovereigns. | (22) 130 half-sovereigns. |
| (23) 136 „ | (23) 145 „ |
| (24) 95 guineas. | (24) 94 guineas. |
| (25) 81 „ | (25) 83 „ |
| (26) 134 half-guineas. | (26) 138 half-guineas. |

EXERCISE 30.

A			B				
s.	d.	£	s.	d.	£	s.	d.
(1)	1 0	(25)	123 16 0	(1)	1 1 $\frac{3}{4}$	(25)	423 9 0
(2)	2 0	(26)	174 16 0	(2)	1 7 $\frac{1}{2}$	(26)	132 17 0
(3)	1 6	(27)	362 8 0	(3)	2 0 $\frac{1}{4}$	(27)	412 7 0
(4)	1 9	(28)	196 1 0	(4)	1 3 $\frac{3}{4}$	(28)	255 6 0
(5)	1 6 $\frac{1}{2}$	(29)	210 12 0	(5)	3 0	(29)	320 0 0
(6)	3 11	(30)	382 14 0	(6)	2 0	(30)	698 2 0
(7)	3 7	(31)	341 16 0	(7)	2 5 $\frac{1}{2}$	(31)	275 12 0
(8)	3 0	(32)	271 10 0	(8)	4 1	(32)	652 6 0
(9)	12 5	(33)	464 0 0	(9)	12 5	(33)	192 17 6
(10)	72 0	(34)	125 15 0	(10)	65 4	(34)	361 10 0
(11)	60 8	(35)	471 12 6	(11)	76 6	(35)	873 0 0
(12)	80 3	(36)	1,151 17 6	(12)	54 6	(36)	1,088 15 0
(13)	99 3	(37)	855 5 0	(13)	124 6	(37)	1,070 0 0
(14)	121 6	(38)	946 10 0	(14)	174 3	(38)	1,574 15 0
(15)	243 0	(39)	543 10 0	(15)	195 6	(39)	1,959 10 0
(16)	215 9	(40)	956 5 0	(16)	112 9	(40)	507 5 0
(17)	189 0	(41)	3,239 0 0	(17)	216 4	(41)	2,425 10 0
(18)	166 0	(42)	1,986 0 0	(18)	297 0	(42)	839 0 0
(19)	102 4	(43)	1,982 0 0	(19)	108 8	(43)	4,738 0 0
(20)	140 4	(44)	1,091 10 0	(20)	239 4	(44)	3,742 0 0
(21)	493 6	(45)	4,203 3 0	(21)	409 0	(45)	8,602 13 0
(22)	132 0	(46)	2,850 15 0	(22)	104 6	(46)	3,218 5 0
(23)	198 0	(47)	4,018 7 0	(23)	156 0	(47)	2,613 9 0
(24)	209 0	(48)	4,405 16 0	(24)	395 0	(48)	9,193 16 0

ANSWERS

TO

The Quarterly Arithmetic.

STANDARD IV.

COMPOUND MULTIPLICATION—MONEY.

EXERCISE I.

A	B
(1) £16 8s. 2½d.	(1) £14 8s. 11d.
(2) £28 0s. 1½d.	(2) £25 0s. 4½d.
(3) £28 12s. 11d.	(3) £23 12s. 8d.
(4) £49 12s. 6d.	(4) £34 16s. 11¾d.
(5) £36 7s. 0½d. ; £54 10s. 6¾d. ; £72 14s. 1d. ; £90 17s. 7½d.	(5) £36 4s. 10½d. ; £54 7s. 3¾d. ; £72 9s. 9d. ; £90 12s. 2¼d.
(6) £30 10s. 9d. ; £45 16s. 1½d. ; £61 1s. 6d. ; £76 6s. 10½d.	(6) £30 12s. 8½d. ; £45 19s. 0¾d. ; £61 5s. 5d. ; £76 11s. 9¼d.
(7) £34 8s. 4½d. ; £51 12s. 6¾d. ; £68 16s. 9d. ; £86 0s. 11¼d.	(7) £34 17s. 9½d. ; £52 6s. 8¼d. ; £69 15s. 7d. ; £87 4s. 5¾d.
(8) £49 19s. 1d. ; £74 18s. 7½d. ; £99 18s. 2d. ; £124 17s. 8½d.	(8) £49 17s. 4d. ; £74 16s. 0d. ; £99 14s. 8d. ; £124 13s. 4d.
(9) £229 2s. 10½d. ; £267 6s. 8¼d. ; £305 10s. 6d. ; £343 14s. 3¾d.	(9) £229 4s. 9d. ; £267 8s. 10½d. ; £305 13s. 0d. ; £343 17s. 1½d.
(10) £268 2s. 3d. ; £312 15s. 11½d. ; £357 9s. 8d. ; £402 3s. 4½d.	(10) £268 5s. 1½d. ; £312 19s. 3¾d. ; £357 13s. 6l. ; £402 7s. 8¼d.
(11) £229 7s. 10½d. ; £267 12s. 6¼d. ; £305 17s. 2d. ; £344 1s. 9¾d.	(11) £230 11s. 3d. ; £268 19s. 9½d. ; £307 8s. 4d. ; £345 16s. 10½d.
(12) £235 7s. 3d. ; £274 11s. 9½d. ; £313 16s. 4d. ; £353 0s. 10½d.	(12) £234 7s. 9d. ; £273 9s. 0½d. ; £312 10s. 4d. ; £351 11s. 7½d.

EXERCISE 1.—*Continued*

A

- (13) £129 19s. 3d. ; £194 18s. 10½d. ; £259 18s. 6d. ; £324 18s. 1½d.
 (14) £436 2s. 1½d. ; £508 15s. 9¾d. ; £581 9s. 6d. ; £654 3s. 2¼d.
 (15) £946 5s. 5d. ; £1,040 17s. 11½d. ; £1,135 10s. 6d.
 (16) £386 16s. 0½d. ; £425 9s. 7¾d. ; £464 3s. 3d.
 (17) £195 8s. 9d. ; £214 19s. 7½d. ; £234 10s. 6d.
 (18) £136 12s. 6d. ; £150 5s. 9d. ; £163 19s. 0d.
 (19) £498 13s. 11½d. ; £548 11s. 4¼d. ; £598 8s. 9d.
 (20) £369 17s. 3½d. ; £406 17s. 0¼d. ; £443 16s. 9d.

B

- (13) £123 17s. 1d. ; £185 15s. 7½d. ; £247 14s. 2d. ; £309 12s. 8½d.
 (14) £442 8s. 6d. ; £516 3s. 3d. ; £589 18s. 0d. ; £663 12s. 9d.
 (15) £866 2s. 1d. ; £952 14s. 3½d. ; £1,039 6s. 6d.
 (16) £425 3s. 11½d. ; £467 14s. 4¼d. ; £510 4s. 9d.
 (17) £659 16s. 8d. ; £725 16s. 4d. ; £791 16s. 0d.
 (18) £745 16s. 0½d. ; £820 7s. 7¾d. ; £894 19s. 3d.
 (19) £417 9s. 4½d. ; £459 4s. 3¾d. ; £500 19s. 3d.
 (20) £178 12s. 3½d. ; £196 9s. 6¼d. ; £214 6s. 9d.

EXERCISE 2.

A

- (1) £346 3s. 3½d. ; £370 17s. 9¾d. ; £395 12s. 4d.
 (2) £1,163 10s. 3d. ; £1,292 15s. 10d. ; £1,357 8s. 7½d.
 (3) £2,130 1s. 7½d. ; £2,323 14s. 6d. ; £2,614 3s. 9¾d.
 (4) £2,125 10s. 5d. ; £2,277 6s. 10½d. ; £2,429 3s. 4d.
 (5) £2,923 11s. 10½d. ; £3,100 15s. 7½d. ; £3,189 7s. 6d.
 (6) £1,865 5s. 10d. ; £1,958 11s. 1½d. ; £2,051 16s. 5d.
 (7) 3,859 16s. 6¾d. ; £4,117 3s. 0d. ; £4,202 18s. 5¾d.
 (8) £2,448 16s. 0½d. ; £2,644 14s. 1¼d. ; 2,742 13s. 2d.

B

- (1) £373 1s. 1½d. ; £399 14s. 0¾d. ; £426 7s. 0d.
 (2) £930 18s. 9d. ; £1,034 7s. 6d. ; £1,086 1s. 10½d.
 (3) £957 3s. 8d. ; £1,044 4s. 0d. ; £1,174 14s. 6d.
 (4) £2,379 7s. 2d. ; £2,549 6s. 3d. ; £2,719 5s. 4d.
 (5) £3,032 10s. 6¾d. ; £3,216 6s. 4¼d. ; £3,308 4s. 3d.
 (6) £1,307 9s. 2d. ; £1,372 16s. 7½d. ; £1,438 4s. 1d.
 (7) £2,202 4s. 8¼d. ; £2,349 1s. 0d. ; £2,397 19s. 9¼d.
 (8) £3,739 4s. 4½d. ; £4,038 7s. 1¼d. ; £4,187 18s. 6d.

EXERCISE 2.—*Continued.*

- | A | B |
|---|--|
| (9) 4,603 8s. 9d.; £4,910 6s. 8d.; £5,063 15s. 7½d. | (9) £4,063 12s. 6d.; £4,334 10s. 8d.; £4,469 19s. 9d. |
| (10) £3,428 6s. 5½d.; £3,526 5s. 6d.; £3,771 3s. 1¼d. | (10) £5,941 18s. 1½d.; £6,111 13s. 6d.; £6,536 1s. 11¼d. |
| (11) £6,139 3s. 4d.; £6,215 18s. 1½d.; £6,446 2s. 6d. | (11) £4,121 11s. 8d.; £4,173 2s. 0¾d.; £4,327 13s. 3d. |
| (12) £8,618 8s. 2d.; £8,814 5s. 7½d.; £9,401 18s. 0d. | (12) £4,304 4s. 2d.; £4,402 0s. 7½d.; £4,695 10s. 0d. |
| (13) £7,206 3s. 4½d.; £7,278 19s. 2d.; £7,861 5s. 6d. | (13) £7,719 6s. 4½d.; £7,797 5s. 10d.; £8,421 1s. 6d. |
| (14) £9,420 13s. 11½d.; £10,362 15s. 4¼d.; £11,304 16 . 9d. | (14) £10,111 17s. 3½d.; £11,123 1s. 0¼d.; £12,134 4s. 9d. |
| (15) £6,615 3s. 0d.; £6,063 17s. 9d.; £4,547 18s. 3¾d. | (15) £4,292 8s. 0d.; £3,934 14s. 0d.; £2,951 0s. 6d. |
| (16) £9,290 10s. 7½d.; £10,135 2s. 6d.; £11,056 10s. 0d. | (16) £6,989 17s. 10¼d.; £7,625 6s. 9d.; £8,318 11s. 0d. |
| (17) £1,282 2s. 9¼d.; £1,676 12s. 10¼d.; £1,873 17s. 10¾d. | (17) £1,100 13s. 10½d.; £1,439 7s. 4½d.; £1,608 14s. 1½d. |
| (18) £502 6s. 8¼d.; £567 17s. 1½d.; £633 7s. 6¾d. | (18) £1,095 18s. 0½d.; £1,238 16s. 11d.; £1,381 15s. 9½d. |
| (19) £2,724 3s. 1¾d.; £2,987 15s. 8½d.; £3,251 8s. 3¼d. | (19) £1,951 14s. 2d.; £2,140 11s. 8d.; £2,329 9s. 2d. |
| (20) £3,717 5s. 5d.; £3,815 1s. 10½d.; £4,010 14s. 9½d. | (20) £1,052 1s. 8½d.; £1,079 15s. 5¼d.; £1,135 2s. 10¾d. |
| (21) £3,814 19s. 0¼d.; £4,081 2s. 2½d.; £4,169 16s. 7¼d. | (21) £3,522 16s. 4¾d.; £3,768 11s. 11½d.; £3,850 10s. 5¾d. |
| (22) £3,908 12s. 4½d.; £3,985 5s. 2d.; £4,061 17s. 11½d. | (22) £2,237 18s. 10¼d.; £2,281 16s. 6d.; £2,325 14s. 1½d. |
| (23) £5,009 1s. 0¾d.; £5,096 18s. 7½d.; £5,360 11s. 3¾d. | (23) £2,279 3s. 4½d.; £2,319 3s. 1d.; £2,439 2s. 2½d. |
| (24) £5,808 8s. 7½d.; £6,089 9s. 8¼d.; £6,276 17s. 0¾d. | (24) £6,058 7s. 4½d.; £6,351 10s. 3¾d.; £6,546 18s. 11¼d. |
| (25) £2,355 9s. 10d.; £2,390 2s. 7½d.; £2,459 8s. 2½d. | (25) £2,551 15s. 5d.; £2,589 5s. 11¼d.; £2,664 6s. 11¾d. |
| (26) £6,912 12s. 10½d.; £7,007 6s. 9d.; £7,102 0s. 7½d. | (26) £7,050 16s. 2¾d.; £7,147 7s. 11½d.; £7,243 19s. 8¼d. |
| (27) £2,868 18s. 5d.; £2,944 8s. 4½d.; £2,982 3s. 4¼d. | (27) £3,681 16s. 1d.; £3,778 13s. 10¼d.; £3,827 2s. 9¼d. |

EXERCISE 2.—*Continued.*

A

- (28) £3,847 13s. 7d. ; £3,894
12s. 0½d. ; £3,988 8s. 11½d.
(29) £7,376 9s. 5d. ; £7,462 4s.
10½d. ; £7,633 15s. 9½d.
(30) £4,531 6s. 6¼d. ; £4,581 2s.
5d. ; £4,630 18s. 3¾d.
(31) £5,434 19s. 3d. ; £5,492
15s. 7½d. ; £5,608 8s. 4½d.
(32) £4,441 2s. 8½d. ; £4,577 1s.
9¼d. ; £4,622 8s. 1½d.

B

- (28) £5,322 9s. 8d. ; £5,387 7s.
10d. ; £5,517 4s. 2d.
(29) £3,326 18s. 11d. ; £3,365
12s. 7½d. ; £3,443 0s. 0½d.
(30) £7,854 18s. 2¾d. ; £7,941
4s. 7d. ; £8,027 10s. 11¼d.
(31) £9,279 19s. 1d. ; £9,376
13s. 6½d. ; £9,576 2s. 5½d.
(32) £8,031 16s. 3½d. ; £8,277
13s. 8¾d. ; £8,359 12s. 10¼d.

EXERCISE 3.

A

- (1) £9,696 2s. 1¼d.
£9,792 2s. 1½d.
(2) £2,447 16s. 11½d.
£2,539 7s. 1½d.
(3) £8,531 13s. 7¾d.
£8,680 1s. 2¼d.
(4) £10,464 13s. 6½d.
£10,807 15s. 7½d.
(5) £5,946 8s. 10¾d.
£6,218 16s. 0¼d.
(6) £12,679 11s. 5¼d.
£13,398 19s. 7¼d.
(7) £3,774 7s. 0d.
£3,997 16s. 7½d.
(8) £8,117 11s. 0d.
£9,132 4s. 10½d.
(9) £13,647 0s. 11¼d.
£14,538 11s. 3d.
(10) £21,335 7s. 9¾d.
£22,017 6s. 10½d.
(11) £12,257 8s. 9d.
£12,452 0s. 0d.
(12) £24,645 18s. 0d.
£25,159 7s. 1½d.

B

- (1) £9,981 8s. 7¼d.
£10,080 5s. 1½d.
(2) £8,231 8s. 5d.
£8,539 2s. 9d.
(3) £8,216 12s. 7¼d.
£8,359 10s. 6¾d.
(4) £6,677 14s. 5d.
£6,896 13s. 3d.
(5) £8,103 14s. 3½d.
£8,474 17s. 6½d.
(6) £11,879 19s. 8¼d.
£12,554 0s. 6¼d.
(7) £14,820 0s. 0d.
£15,697 10s. 0d.
(8) £13,035 18s. 6d.
£14,665 8s. 3¾d.
(9) £15,668 2s. 9¼d.
£16,691 13s. 9d.
(10) £17,831 12s. 4¼d.
£18,401 11s. 7d.
(11) £16,373 19s. 3d.
£16,633 17s. 4d.
(12) £17,240 2s. 0d.
£17,599 5s. 4½d.

EXERCISE 3.—*Continued.*

A	B
(13) £4,222 13s. 2½d. £4,464 7s. 2½d.	(13) £4,665 19s. 10½d. £4,933 1s. 5d.
(14) £11,604 12s. 5½d. £12,223 1s. 0d.	(14) £13,212 4s. 11¾d. £13,916 7s. 0d.
(15) £28,859 10s. 4¾d. £29,616 15s. 4d.	(15) £12,519 2s. 10¼d. £12,847 12s. 8d.
(16) £11,515 12s. 0d. £12,385 5s. 4¼d.	(16) £31,394 16s. 0d. £33,765 15s. 2¾d.
(17) £48,572 3s. 1½d. £52,569 17s. 3½d.	(17) £34,425 0s. 0d. £37,258 6s. 8d.
(18) £26,866 16s. 0d. £30,225 3s. 0d.	(18) £8,616 12s. 0d. £10,232 4s. 3d.
(19) £11,279 15s. 1¼d. £12,531 2s. 7¼d.	(19) £18,495 2s. 11½d. £20,546 19s. 11½d.
(20) £59,854 16s. 10½d. £71,569 1s. 3d.	(20) £54,559 0s. 5d. £65,236 15s. 10d.
(21) £32,911 1s. 6d. £38,662 10s. 6d.	(21) £40,921 18s. 0d. £48,073 6s. 0d.
(22) £33,126 13s. 10½d. £33,838 0s. 0¾d.	(22) £66,105 13s. 4½d. £67,525 2s. 3¾d.
(23) £44,390 12s. 6d. £66,585 18s. 9d.	(23) £38,866 5s. 0d. £58,299 7s. 6d.
(24) £259,325 0s. 0d. £324,156 5s. 0d.	(24) £326 937 10s. 0d. £408,671 17s. 6d.
(25) £597,442 14s. 2d. £682,791 13s. 4d.	(25) £580,380 4s. 2d. £663,291 13s. 4d.
(26) £593,360 12s. 6d. £587,367 1s. 8d.	(26) £463,866 11s. 3d. £459,181 0s. 10d.
(27) £171,588 11s. 6½d. £184,071 1s. 6¾d.	(27) £169,272 15s. 2d. £262,984 13s. 9d.
(28) £209,638 6s. 10½d. £239,056 15s. 7½d.	(28) £343,293 13s. 5¼d. £391,467 19s. 9¾d.
(29) £506,627 17s. 0½d. £542,311 5s. 5¾d.	(29) £639,644 7s. 11½d. £684,696 12s. 0¼d.
(30) £860,978 14s. 2d. £968,601 0s. 11¼d.	(30) £257,233 10s. 8d. £289,387 14s. 6d.

EXERCISE 4.

A	B
(1) £71,750 14s. 5d.	(1) £50,093 8s. 1½d.
(2) £310,720 14s. 2d.	(2) £490,804 6s. 3d.
(3) £93,389 10s. 9½d.	(3) £74,846 2s. 10d.
(4) £2,709,984 2s. 7½d.	(4) £1,512,185 1s. 7d.
(5) £8,890 0s. 0d.	(5) £14,450 0s. 0d.
(6) £55,632 0s. 0d.	(6) £57,942 0s. 0d.
(7) £54,990 6s. 6d.	(7) £80,099 5s. 0d.
(8) £19,134,397 5s. 0d.	(8) £16,187,857 2s. 8½d.

EXERCISE 5.

A	B
(1) £67 3s. 4d.	(1) £4 1s. 4½d.
(2) £4,974 13s. 4d.	(2) £124 1s. 11d.
(3) £87 10s. 8d.	(3) £916 7s. 10d.
(4) £377 16s. 3d.	(4) £4 4s. 10d.
(5) £12 12s. 0d.	(5) £4,795 1s. 9d.
(6) £919 6s. 10½d.	(6) £266 14s. 6¾d.
(7) £351 12s. 0d.	(7) £34 8s. 4½d.
(8) £3,293 1s. 5½d.	(8) £2 5s. 4½d.
(9) £188 16s. 6d.	(9) £129 0s. 10d.
(10) £19 2s. 6d.	(10) £8,085 17s. 9½d.
(11) £1 10s. 6½d.	(11) £11,734 5s. 1d. + 30.

COMPOUND DIVISION.—MONEY.

EXERCISE 6.

A	B
(1) £47 6s. 3¼d.	(1) £36 9s. 2½d.
(2) £31 2s. 3¼d.	(2) £22 4s. 2½d.
(3) £11 4s. 1¼d.	(3) £21 2s. 2½d.
(4) £14 3s. 1½d.	(4) £18 1s. 0½d.
(5) £398 9s. 2d. + 1; £265 12s. 9¼d. + 2; £199 4s. 7d. + 1.	(5) £432 4s. 8d. + 1; £288 3s. 1¼d. + 2; £216 2s. 4d. + 1.
(6) £337 4s. 10d. + 1; £224 16s. 6¾d. ; £168 12s. 5d. + 1.	(6) £274 8s. 7¼d. ; £182 19s. 0¾d. + 1; £137 4s. 3½d + 2.
(7) £91 6s. 7¾d. ; £60 17s. 9d. + 2; £45 13s. 3¾d. + 2.	(7) £398 6s. 3d. ; £265 10s. 10d. ; £199 3s. 1½d.
(8) £79 10s. 11½d. ; £66 5s. 9½d. + 2; £56 16s. 4¾d. + 1.	(8) £63 14s. 1¾d. + 4; £53 1s. 9½d. + 3; £45 10s. 1¼d. + 4.
(9) £64 7s. 5½d. ; £53 12s. 10½d. + 2; £45 19s. 7¼d. + 3.	(9) £195 4s. 11¾d. ; £162 14s. 1¾d. + 1; £139 9s. 3¼d.

EXERCISE 6.—*Continued.*

A

- (10) £184 2s. 5d. + 2; £153 8s. 8½d.; £131 10s. 3½d. + 4.
- (11) £39 15s. 0d.; £35 6s. 8d.; £31 16s. 0d.
- (12) £88 11s. 5¾d. + 4; £78 14s. 7¾d. + 5; £70 17s. 2¼d. + 2.
- (13) £38 6s. 11d. + 6; £34 1s. 8½d. + 4; £30 13s. 6½d. + 2.
- (14) £74 13s. 8¼d. + 4; £68 9s. 2½d. + 7.
- (15) £50 9s. 8¾d. + 10; £46 5s. 7d. + 11.
- (16) £305 15s. 2½d.; £283 16s. 11¾d.; £264 19s. 10d. + 10.
- (17) £708 2s. 8¾d. + 6; £657 11s. 1¼d. + 7; £613 14s. 4¼d. + 14.
- (18) £672 5s. 7½d. + 4; £624 5s. 2¾d.; £582 12s. 10½d. + 4.
- (19) £100 6s. 7d. + 7; £95 11s. 0¼d. + 18; £91 4s. 2d. + 7.
- (20) £240 12s. 3½d. + 29; £232 17s. 0¼d. + 20; £225 11s. 6½d. + 1.
- (21) £98 13s. 2¼d. + 2; £96 5s. 0½d. + 40; £93 19s. 2½d. + 8.
- (22) £180 2s. 1¼d. + 9; £176 11s. 5½d. + 49; £173 3s. 6¾d. + 7.
- (23) £117 5s. 3½d. + 46; £115 6s. 10¼d. + 17; £113 9s. 7¾d. + 20.
- (24) £42 8s. 3¼d. + 40; £41 16s. 4d. + 6; £41 4s. 8½d. + 38.

B

- (10) £48 12 4d. + 2; £40 10s. 3¼d. + 4; £34 14s. 6¼d. + 3.
- (11) £109 6s. 4½d. + 2; £97 3s. 5¼d. + 5; £87 9s. 1¼d.
- (12) £70 6s. 10¼d. + 1; £62 10s. 6¼d. + 8; £56 5s. 5¾d. + 3.
- (13) £24 12s. 3d. + 4; £21 17s. 6¾d. + 1; £19 13s. 9½d. + 8.
- (14) £68 0s. 2¼d. + 6; £62 6s. 10d. + 9.
- (15) £74 6s. 8½d. + 6; £68 2s. 9¾d. + 8.
- (16) £262 19s. 1½d. + 4; £244 3s. 5¾d.; £227 17s. 10¾d. + 13.
- (17) £587 19s. 0½d. + 10; £545 19s. 1½d.; £509 11s. 2d. + 12.
- (18) £191 9s. 9d. + 6; £177 16s. 2¼d. + 12; £165 19s. 1½d.
- (19) £488 4s. 6¼d. + 5; £464 19s. 6½d. + 7; £443 16s. 10d. + 9.
- (20) £40 0s. 4¼d. + 19; £38 14s. 6¾d. + 28; £37 10s. 4d. + 17.
- (21) £45 10s. 10¼d. + 3; £44 8s. 7½d. + 29; £43 7s. 5¾d. + 5.
- (22) £195 5s. 0¼d. + 46; £191 8s. 5½d. + 30; £187 14s. 10d. + 32.
- (23) £111 19s. 11¼d. + 30; £110 3s. 2½d. + 56; £108 7s. 8¼d. + 12.
- (24) £116 0s. 11½d. + 11; £114 8s. 3¼d. + 4; £112 16s. 5¾d. + 39.

EXERCISE 6.—Continued.

- | A | B |
|---|---|
| (25) £51 11s. 11½d. + 3; £50 19s. 2½d. + 41; £50 6s. 9½d. + 73. | (25) £25 5s. 4½d. + 17; £24 19s. 1½d. + 60; £24 13s. 0½d. + 47. |
| (26) £43 7s. 11¼d. + 7; £42 18s. 4¾d. + 24; £42 9s. 0¾d. + 37. | (26) £22 0s. 1¾d. + 70; £21 15s. 3¾d. + 55; £21 10s. 7d. + 44. |

EXERCISE 7.

- | A | B |
|---|---|
| (1) £39 14s. 0½d. + 4; £44 17s. 7d. + 22; £65 17s. 8¾d. + 21. | (1) £103 2s. 2½d. + 70; £116 11s. 2½d. + 16; £171 2s. 5d. + 6. |
| (2) £72 6s. 2½d. + 5; £116 9s. 11½d. + 14; £26 10s. 10½d. + 20. | (2) £55 19s. 9¾d. + 17; £90 4s. 1¾d. + 14; £20 11s. 0¾d. + 47. |
| (3) £193 9s. 4¾d. + 17; £37 2s. 7¼d. + 51; £44 5s. 9d. + 78. | (3) £379 14s. 1½d. + 7; £72 17s. 5½d. + 7; £86 18s. 4¾d. + 80. |
| (4) £73 16s. 3½d. + 39; £64 11s. 8d. + 84; £87 8s. 9¾d. + 41. | (4) £41 15s. 0½d. + 29; £36 10s. 7¾d. + 18; £49 9s. 2¼d. + 1. |
| (5) £43 2s. 6½d. + 21; £47 16s. 0¾d. + 52; £53 12s. 4½d. + 3. | (5) £64 1s. 0d. + 7; £70 19s. 10¾d. + 38; £79 12s. 7d. + 47. |
| (6) £36 1s. 1¾d. + 76; £51 8s. 8½d. + 27; £47 5s. 3½d. + 55. | (6) £42 18s. 2¾d. + 7; £61 4s. 2¾d. + 38; £56 4s. 11½d. + 70. |
| (7) £69 4s. 4¾d. + 20; £59 11s. 7½d. + 46; £60 6s. 10¾d. + 70. | (7) £32 3s. 5¾d. + 4; £27 13s. 10½d. + 26; £28 0s. 11¾d. + 14. |
| (8) £56 17s. 10½d. + 66; £82 19s. 5d. + 30; £44 5s. 0½d. + 36. | (8) £139 8s. 8½d. + 63; £203 6s. 10½d. + 43; £108 9s. 0d. + 43. |
| (9) £25 7s. 9¼d. + 65; £22 8s. 4¼d. + 50; £30 19s. 9½d. + 24. | (9) £12 5s. 3½d. + 53; £10 16s. 7d. + 71; £14 19s. 4¾d. + 67. |
| (10) £35 6s. 2¾d. + 76; £31 14s. 0d. + 81; £28 3s. 6¾d. + 48. | (10) £104 6s. 4½d. + 46; £93 12s. 11¾d. + 37; £83 4s. 10½d. + 15. |

EXERCISE 7.—Continued.

- | A | B |
|--|---|
| (11) £28 14s. 0½d. + 49 ; £13 4s. 11½d. + 100. | (11) £25 15s. 5d. + 89 ; £11 17s. 10½d. + 191. |
| (12) £6 10s. 11d. + 88 ; £4 16s. 10¾d. + 351. | (12) £28 10s. 3¾d. + 181 ; £21 2s. 2d. + 91. |
| (13) £7 0s. 8d. + 237 ; £5 17s. 8½d. + 283. | (13) £7 19s. 3¼d. + 313 ; £6 13s. 3¾d. + 319. |
| (14) £7 0s. 4¾d. + 448 ; £6 1s. 3¼d. + 276. | (14) £11 2s. 5d. + 179 ; £10 0s. 9d. + 147. |
| (15) £7 18s. 3½d. + 500 ; £7 14s. 8¾d. + 485. | (15) £1 8s. 10½d. + 145 ; £1 8s. 2½d. + 895. |
| (16) £24 19s. 6¾d. + 116 ; £13 2s. 4¾d. + 125. | (16) £43 2s. 0½d. + 106 ; £22 12s. 9½d. + 76. |
| (17) £12 16s. 8¼d. + 272 ; £10 0s. 3¼d. + 451. | (17) £21 14s. 6¾d. + 248 ; £16 11s. 3¼d. + 25. |
| (18) £18 17s. 10¼d. + 353 ; £7 5s. 2½d. + 362. | (18) £13 17s. 6¼d. + 187 ; £5 6s. 7¾d. + 407. |
| (19) £4 8s. 11¾d. + 371 ; £8 3s. 11d. + 416. | (19) £4 14s. 3¼d. + 647 ; £8 13s. 8¼d. + 165. |
| (20) £3 0s. 1½d. + 483 ; £2 0s. 5½d. + 144. | (20) £12 10s. 4½d. + 104 ; £8 8s. 5d. + 284. |
| (21) £3 9s. 6d. + 270 ; £3 8s. 6¾d. + 693. | (21) £6 16s. 7½d. + 656 ; £6 14s. 9¾d. + 173. |
| (22) £6 10s. 10½d. + 155 ; £8 4s. 8d. + 509. | (22) £4 17s. 6d. + 337 ; £6 2s. 8¼d. + 103. |
| (23) £7 6s. 3d. + 226 ; £2 9s. 9d. + 154. | (23) £4 17s. 10d. + 214 ; £1 13s. 3¼d. + 555. |
| (24) £19 5s. 8½d. + 181 ; £11 17s. 3¼d. + 620. | (24) £17 5s. 0¾d. + 51 ; £10 12s. 3¼d. + 312. |
| (25) £2 8s. 4¾d. + 476 ; £2 3s. 6d. + 618. | (25) £8 5s. 4¾d. + 165 ; £7 8s. 8d. + 523. |
| (26) £6 1s. 1¾d. + 819 ; £1 6s. 3d. + 4,689. | (26) £5 19s. 8¼d. + 414 ; £1 5s. 11½d. + 3,444. |
| (27) 6s. 8d. + 2,958 ; 19s. 7¼d. + 722. | (27) 2s. 7¾d. + 5,866 ; 7s. 9¾d. + 691. |
| (28) £2 2s. 8¾d. + 919 ; £3 15s. 0¼d. + 824. | (28) 14s. 11¼d. + 3,729 ; £1 6s. 3d. + 1,194. |
| (29) £2 11s. 10½d. + 472 ; £1 19s. 0¾d. + 3,352. | (29) £1 2s. 6¼d. + 826 ; 16s. 11½d. + 2,101. |

EXERCISE 7.—Continued.

- | A | B |
|---|---|
| (30) 16s. 9d. + 2,475; 9s. 7½d.
+ 2,586. | (30) 6s. 7d. + 812; 3s. 9½d. +
2,155. |
| (31) 17s. 8½d. + 36; £1 0s. 6d.
+ 7,374. | (31) 18s. 10½d. + 8,472; £1 1s.
10½d. + 7,522. |
| (32) 15s. 6½d. + 470; 14s. 5½d.
+ 757. | (32) 19s. 7d. + 3,459; 18s. 2½d.
+ 5,992. |

EXERCISE 8.

- | A | B |
|---------------------------|---------------------------|
| (1) £54 16s. 9½d. | (1) £46 19s. 9¾d. + 5. |
| (2) £9 17s. 8¾d. | (2) £18 7s. 10¾d. + 2. |
| (3) £5 9s. 1d. | (3) £3 17s. 2½d. + 9. |
| (4) £3 13s. 5d. + 909. | (4) £7 18s. 9½d. + 768. |
| (5) £1 0s. 0d. + 1. | (5) £1 1s. 3½d. + 39. |
| (6) £1,982 19s. 2d. × 80. | (6) £154 14s. 11d. + 140. |
| (7) £57 13s. 4½d. | (7) £53 4s. 11¾d. + 23. |
| (8) £1 13s. 0½d. + 468. | (8) £7 1s. 9d. + 527. |

EASY PROBLEMS IN DIVISION.

EXERCISE 9.

- | A | B |
|------------------|------------------|
| (1) £1 9s. 10½d. | (1) 3s. 11½d. |
| (2) 2s. 3½d. | (2) £6 6s. 6½d. |
| (3) £2 13s. 9d. | (3) 5s. 10½d. |
| (4) £14 3s. 9½d. | (4) 10s. 1½d. |
| (5) £2 2s. 6d. | (5) £14 1s. 9½d. |
| (6) 21 times. | (6) 19 times. |
| (7) 8 times. | (7) 8. |
| (8) 29 lbs. | (8) 3,059. |

REDUCTION OF MONEY.

EXERCISE 10.

- | A | B |
|----------------------|----------------------|
| (1) 90 shillings. | (1) 132 shillings. |
| (2) 758 „ | (2) 826 „ |
| (3) 997 „ | (3) 1,258 „ |
| (4) 573 „ | (4) 597 „ |
| (5) 1,902 sixpences. | (5) 2,576 sixpences. |
| (6) 2,119 „ | (6) 2,298 „ |

EXERCISE 10.—*Continued.*

A	B
(7) 1,261 sixpences.	(7) 3,308 sixpences.
(8) 1,710 „	(8) 1,466 „
(9) 3,036 threepences.	(9) 3,912 threepences.
(10) 2,453 „	(10) 4,388 „
(11) 2,022 „	(11) 4,152 „
(12) 2,991 „	(12) 3,364 „
(13) 1,594 „	(13) 3,425 „
(14) 3,037 „	(14) 4,647 „
(15) 3,375 „	(15) 6,490 „
(16) 7,434 „	(16) 4,931 „
(17) 10,315 pence.	(17) 10,015 pence.
(18) 9,153 „	(18) 18,752 „
(19) 23,920 „	(19) 22,241 „
(20) 17,565 „	(20) 20,790 „
(21) 88,964 farthings.	(21) 70,768 farthings.
(22) 32,620 „	(22) 46,732 „
(23) 88,016 „	(23) 90,024 „
(24) 46,056 „	(24) 74,764 „

EXERCISE 11.

A	B
(1) 32,435 $\frac{3}{4}$ pence.	(1) 31,152 pence.
(2) 235,541 $\frac{1}{4}$ „	(2) 54,993 $\frac{1}{4}$ „
(3) 70,549 „	(3) 204,679 „
(4) 35,543 $\frac{1}{4}$ „	(4) 179,729 $\frac{3}{4}$ „
(5) 360,987 „	(5) 413,063 $\frac{1}{2}$ „
(6) 169,108 $\frac{1}{2}$ „	(6) 217,812 $\frac{1}{2}$ „
(7) 424,932 $\frac{1}{2}$ „	(7) 439,105 „
(8) 247,136 $\frac{1}{2}$ „	(8) 482,172 $\frac{1}{2}$ „
(9) 41,438s. 8d.	(9) 20,260s. 4d.
(10) 16,156s. 7d.	(10) 9,009s. 7d.
(11) 86,815s. 9d.	(11) 210,906s. 9d.
(12) 73,189s. 0d.	(12) 98,665s. 6d.
(13) 60,732s. 4d.	(13) 69,730s. 4d.
(14) 132,418s. 0d.	(14) 275,513s. 8d.
(15) 148,692s. 0d.	(15) 173,921s.
(16) 298,102s. 6d.	(16) 280,412s.
(17) £46,088 4s. 0d.	(17) £35,604 5s. 6d.

EXERCISE 11.—*Continued.*

A

- (18) £36,419 17s. 0d.
 (19) £27,396 8s. 0d.
 (20) £39,721 18s. 0d.
 (21) £52,946 0s. 0d.
 (22) £27,173 0s. 0d.
 (23) £231,846 0s. 0d.
 (24) £224,355 5s. 0d.
 (25) £330 12s. 11½d.
 (26) £878 5s. 4d.
 (27) £3,840 11s. 6d.
 (28) £11,592 13s. 9d.
 (29) £15,456 17s. 8d.
 (30) £7,537 13s. 0d.
 (31) £36,079 2s. 0d.
 (32) £116,129 7s. 6d.

B

- (18) £24,530 13s. 0d.
 (19) £71,890 0s. 0d.
 (20) £82,678 10s. 0d.
 (21) £118,435 0s. 0d.
 (22) £105,926 5s. 0d.
 (23) £94,665 10s. 0d.
 (24) £53,161 5s. 0d.
 (25) £327 6s. 1¾d.
 (26) £1,298 18s. 0½d.
 (27) £1,510 18s. 2d.
 (28) £9,056 5s. 6d.
 (29) £4,233 2s. 0d.
 (30) £19,110 11s. 6d.
 (31) £28,050 4s. 0d.
 (32) £60,544 15s. 0d.

Easy Problems in Reduction—Money.

EXERCISE 12.

A

- (1) 1,136,980 threepences.
 (2) 12,349 guineas + 11s.
 (3) £28 2s. 7¾d.
 (4) £8 8s. 11d.
 (5) £0 4s. 0¼d.
 (6) 895 fourpences.
 (7) 173 h. sovereigns.
 (8) 3,151,318 crowns, 4s.
 (9) £3,301 4s. 8¾d.
 (10) 2,244d.

B

- (1) 1,348,360 threepences.
 (2) 17,755 guineas + 5s.
 (3) £33 2s. 5¼d.
 (4) £61 2s. 8¾d.
 (5) £1 15s. 6½d.
 (6) 4,940 fourpences.
 (7) 44 half sovereigns.
 (8) 3,203,944 crowns + 4s.
 (9) £4,852 7s. 5¼d.
 (10) 2,934 pence.

AVOIRDUPOIS WEIGHT.

EXERCISE 13.

A

- (1) 42,380 cwts. (8) 13,380 qrs.
 (2) 24,780 ,, (9) 231,700 lbs.
 (3) 48,740 ,, (10) 109,956 ,,
 (4) 87,860 ,, (11) 118,020 ,,
 (5) 5,496 qrs. (12) 229,600 ,,
 (6) 9,888 ,, (13) 67,440 ozs.
 (7) 20,508 ,, (14) 148,368 ,,

B

- (1) 42,180 cwts. (8) 12,980 qrs.
 (2) 44,580 ,, (9) 69,384 lbs.
 (3) 48,940 ,, (10) 202,804 ,,
 (4) 87,840 ,, (11) 174,104 ,,
 (5) 9,496 qrs. (12) 233,716 ,,
 (6) 13,892 ,, (13) 69,776 ozs.
 (7) 21,308 ,, (14) 132,688 ,,

EXERCISE 13.—*Continued.*

A	B
(15) 149,888 ozs.	(15) 97,712 ozs.
(16) 67,440 ozs.	(16) 115,920 „
(17) 132,784 drs.	(17) 42,768 drs.
(18) 115,312 drs.	(18) 137,984 „
(19) 63,424 drs.	(19) 87,776 „
(20) 34,528 drs.	(20) 155,600 „
(21) 539,360 qrs.	(21) 537,680 qrs.
(22) 741,840 qrs.	(22) 739,280 „
(23) 4,590,387,200 drs.	(23) 4,596,121,600 drs.
(24) 2,194,554,880 drs.	(24) 5,162,680,320 „
(25) 66,486 lbs.	(25) 64,608 lbs.
(26) 82,076 lbs.	(26) 105,510 „
(27) 216,663 lbs.	(27) 116,264 lbs.
(28) 79,589 „	(28) 208,598 „
(29) 96,171 „	(29) 106,253 „
(30) 206,423 „	(30) 163,576 „
(31) 42,333 „	(31) 146,868 „
(32) 17,804 drs.	(32) 18,680 drs.
(33) 11,236 „	(33) 14,287 „
(34) 28,023 „	(34) 24,074 „
(35) 11,736 „	(35) 22,150 „
(36) 15,155 „	(36) 11,703 „
(37) 10,735 „	(37) 5,612 „
(38) 17,612 „	(38) 10,094 „

EXERCISE 14.

A	B
(1) 135 ozs. 14 drs.	(1) 179 ozs. 10 drs.
(2) 246 ozs. 11 drs.	(2) 434 ozs. 3 drs.
(3) 513 ozs. 8 drs.	(3) 570 ozs. 3 drs.
(4) 169 ozs. 9 drs.	(4) 390 ozs. 5 drs.
(5) 174 lbs. 7 ozs.	(5) 133 lbs. 6 ozs.
(6) 513 lbs. 8 ozs.	(6) 292 lbs. 1 oz.
(7) 451 lbs. 3 ozs.	(7) 562 lbs. 5 ozs.
(8) 239 lbs. 3 ozs.	(8) 478 lbs.
(9) 106 qrs. 6 lbs.	(9) 102 qrs. 7 lbs.
(10) 293 qrs. 12 lbs.	(10) 228 qrs. 26 lbs.
(11) 175 qrs. 23 lbs.	(11) 290 qrs. 7 lbs.

EXERCISE 14.—*Continued.*

A	B
(12) 295 qrs. 16 lbs.	(12) 129 qrs. 13 lbs.
(13) 2,317 cwts. 3 qrs.	(13) 2,318 cwts.
(14) 2,054 cwts. 0 qrs.	(14) 2,056 cwts. 2 qrs.
(15) 1,245 cwts. 3 qrs.	(15) 1,246 cwts. 2 qrs.
(16) 2,303 cwts. 3 qrs.	(16) 2,301 cwts. 1 qr.
(17) 460 tons 17 cwts.	(17) 217 tons 5 cwts.
(18) 410 tons 16 cwts.	(18) 420 tons 13 cwts.
(19) 208 tons 3 cwts.	(19) 163 tons 1 cwt.
(20) 100 tons 5 cwts.	(20) 89 tons
(21) 137 stones 9 lbs.	(21) 133 stones 2 lbs.
(22) 267 stones 11 lbs.	(22) 345 stones.
(23) 586 stones 11 lbs.	(23) 589 stones 10 lbs.
(24) 281 stones 12 lbs.	(24) 567 stones 10 lbs.
(25) 3,805 lbs. 8 ozs. 8 drs.	(25) 3,305 lbs. 8 ozs. 5 drs.
(26) 3,231 lbs. 3 ozs. 10 drs.	(26) 2,504 lbs. 0 ozs. 1 dr.
(27) 1,131 lbs. 11 ozs. 2 drs.	(27) 2,702 lbs. 10 ozs. 2 drs.
(28) 718 qrs. 3 lbs. 7 ozs.	(28) 965 qrs. 22 lbs. 12 ozs.
(29) 483 qrs. 2 lbs. 2 ozs.	(29) 2,055 qrs. 23 lbs.
(30) 224 qrs. 18 lbs. 1 oz.	(30) 448 qrs. 22 lbs. 14 ozs.
(31) 626 qrs. 14 lbs. 2 ozs.	(31) 1,830 qrs. 8 lbs. 5 ozs.
(32) 540 tons 4 cwts. 0 qrs. 19 lbs.	(32) 1,929 tons. 1 cwt. 1 qr. 2 lbs.
(33) 1,842 tons 5 cwts. 2 qrs. 25 lbs.	(33) 2,861 tons 2 cwts. 3 qrs. 6 lbs.
(34) 3,668 tons 11 cwts. 1 qr. 1 lb.	(34) 2,073 tons 0 cwts. 3 qrs. 12 lbs.
(35) 545,827 stones 5 lbs.	(35) 415,266 stones 5 lbs.
(36) 485,131 stones 9 lbs.	(36) 695,346 stones 13 lbs.
(37) 156,919 stones 6 lbs.	(37) 131,642 stones.
(38) 141,624 stones 5 lbs.	(38) 211,572 stones 9 lbs.

MISCELLANEOUS EXERCISES.

EXERCISE 15.

A	B
(1) 27,056 ozs.	(1) 58,368 drams.
(2) 1 cwt. 1 qr. 20 lbs. 3 ozs. 9 drs.	(2) 25 tons 17 cwts. 2 qrs. 17 lbs. 11 ozs.
(3) 251 tons 2 cwts. 1 qr. 8 lbs.	(3) 4,664 cwts. 1 qr. 4 lbs.

EXERCISE 15.—*Continued.*

A	B
(4) 4,640 stones.	(4) 2,160 stones.
(5) 42,456 tons 19 cwts. 1 qr. 1 st.	(5) 31,250 tons.
(6) 94 stones	(6) 19,285 stones 10 lbs.
(7) 56 parcels.	(7) 186 half lbs.
(8) 6½ d. per lb.	(8) 74 parcels + 40 lbs.
(9) 1,288 packets.	(9) 10 tons 14 cwts. 1 qr. 4 lbs.
(10) 736 qr. lb. packets.	(10) £2 10s. 0d. he gains.
(11) 1 cwt. 1 qr. 13 lbs. 2 ozs.	(11) 81 packages.

CAPACITY MEASURE.

EXERCISE 16.

A	B
(1) 776 bushels.	(1) 680 bushels.
(2) 696 „	(2) 624 „
(3) 792 „	(3) 768 „
(4) 1,588 pecks.	(4) 1,824 pecks.
(5) 2,780 „	(5) 3,388 „
(6) 1,948 „	(6) 3,824 „
(7) 1,748 gallons.	(7) 1,236 gallons.
(8) 1,974 „	(8) 1,768 „
(9) 992 „	(9) 1,592 „
(10) 2,916 quarts.	(10) 2,492 quarts.
(11) 3,316 „	(11) 3,276 „
(12) 2,972 „	(12) 3,892 „
(13) 18,550 pints.	(13) 1,268 pts.
(14) 14,438 „	(14) 1,194 „
(15) 14,432 „	(15) 1,792 „
(16) 32,428 gills.	(16) 2,592 gills.
(17) 33,084 „	(17) 3,808 „
(18) 28,860 „	(18) 2,848 „
(19) 264,736 pecks.	(19) 64,672 pecks.
(20) 294,880 „	(20) 198,848 „
(21) 264,928 „	(21) 265,472 „
(22) 148,400 pints.	(22) 103,616 pints.
(23) 34,800 „	(23) 86,912 „
(24) 147,440 „	(24) 23,952 „
(25) 280,032 gills.	(25) 215,904 gills.

EXERCISE 16.—*Continued.*

- A**
- (26) 34,240 gills.
 (27) 294,880 „
 (28) 254 gallons.
 (29) 468 „
 (30) 347 „
 (31) 137 „
 (32) 470 gills.
 (33) 427 „
 (34) 574 „
 (35) 403 „

- B**
- (26) 164,576 „
 (27) 270,784 „
 (28) 267 gallons.
 (29) 116 „
 (30) 412 „
 (31) 131 „
 (32) 475 gills.
 (33) 613 „
 (34) 526 „
 (35) 361 „

EXERCISE 17.

- A**
- (1) 344 qts. 1 pt.
 (2) 1,027 qts. 1 gill.
 (3) 1,159 qts. 3 gills.
 (4) 1,031 qts. 2 gills.
 (5) 1,020 pks. 1 gal. 3 qts.
 (6) 1,151 pks. 1 gal. 3 qts.
 (7) 125 pks. 1 gal. 3 qts.
 (8) 1,000 pks. 0 gals. 3 qts.
 (9) 2,814 qrs. 2 bush.
 (10) 1,157 qrs. 7 bush. 1 pk.
 (11) 2,567 qrs. 7 bush. 3 pks.
 (12) 2,900 qrs. 3 bush. 3 pks.
 (13) 282 qrs. 1 gal.
 (14) 119 qrs. 4 bush. 2 qts.
 (15) 320 qrs. 7 bush. 3 pks.
 1 gal. 3 qts.
 (16) 280 qrs. 4 bush. 2 pks.
 0 gal. 1 qt.
 (17) 2,880 gals. 1 qt. 1 pt
 1 gl.
 (18) 849 gals. 2 qts.
 (19) 1,225 gals. 1 qt. 1 pt. 3 gills.
 (20) 1,287 gals. 2 qts. 0 pt. 3 gills

- B**
- (1) 433 qts. 0 pts. 1 gill.
 (2) 584 qts. 0 pts. 0 gills.
 (3) 1,142 qts. 1 pt. 2 gills.
 (4) 766 qts. 1 pt. 1 gill.
 (5) 766 pks. 1 gal. 2 qts.
 (6) 658 pks. 0 gal. 3 qts.
 (7) 1,018 pks. 0 gal. 1 qt.
 (8) 1,154 pks. 1 gal. 2 qts.
 (9) 2,510 qrs. 1 bush. 1 pk.
 (10) 1,459 qrs. 4 bush. 3 pks.
 (11) 902 qrs. 1 bush. 3 pks.
 (12) 2,869 qrs. 1 bush. 1 pk.
 (13) 252 qrs. 3 bush. 1 pk. 1 gal.
 3 qts.
 (14) 165 qrs. 7 bush. 3 pks. 0
 gal. 1 qt.
 (15) 279 qrs. 6 bush. 1 pk. 0 gal.
 0 qts.
 (16) 151 qrs. 4 bush. 2 pks. 1
 gal. 2 qts.
 (17) 1,444 gals. 0 qts. 1 pt. 2 gills.
 (18) 979 gals. 3 qts. 1 pt. 0 gills.
 (19) 2,017 gals. 2 qts. 1 pt. 0 gill.
 (20) 1,138 gals. 1 qt. 1 pt. 0 gill.

EXERCISE 17.—*Continued.*

A

- (21) 401 qrs. 1 bush. 3 pks. 1 gal. 3 qts. 0 pt. 1 gill.
 (22) 424 qrs. 6 bush. 2 pks. 0 gal. 2 qts. 0 pt. 2 gills.
 (23) 343 qrs. 1 bush. 1 pk. 1 gal. 2 qts. 0 pt. 3 gills.
 (24) 441 qrs. 2 bush. 0 pk. 1 gal. 3 qts. 1 pt. 1 gill.
 (25) 63 times.
 (26) 256
 (27) 133 + 2.
 (28) 459 + 23.

B

- (21) 402 qrs. 5 bush. 1 pk. 1 gal. 0 qt. 0 pt. 0 gill.
 (22) 80 qrs. 6 bush. 3 pks. 0 gal. 3 qts. 0 pt. 1 gill.
 (23) 99 qrs. 7 bush. 1 pk. 0 gals 2 qts. 0 pts. 3 gills.
 (24) 573 qrs. 0 bush. 1 pk. 1 gal. 1 qt.
 (25) 1,294 half pints.
 (26) 66 qrs. 3 bus. 1 pk.
 (27) 1,248 packets.
 (28) 320 soldiers.

EXERCISE 18.

A

- (1) 4,728 mths.
 (2) 6,072 „
 (3) 4,908 „
 (4) 1,832 weeks.
 (5) 1,500 „
 (6) 1,988 „
 (7) 5,789 days.
 (8) 3,521 „
 (9) 6,349 days.
 (10) 10,032 hours.
 (11) 21,816 „
 (12) 11,352 „
 (13) 50,340 minutes.
 (14) 16,500 „
 (15) 23,820 „
 (16) 43,500 seconds.
 (17) 23,520 „
 (18) 48,240 „
 (19) 3,518,965 days.
 (20) 2,633,840 „
 (21) 2,958,325 „
 (22) 843,609,600 seconds.
 (23) 259,804,800 „

B

- (1) 5,580 mths.
 (2) 6,096 „
 (3) 5,604 „
 (4) 2,164 weeks.
 (5) 2,544 „
 (6) 3,232 „
 (7) 5,096 days.
 (8) 1,512 „
 (9) 5,887 „
 (10) 17,184 hours.
 (11) 15,528 „
 (12) 20,184 „
 (13) 57,600 minutes.
 (14) 9,060 „
 (15) 13,080 „
 (16) 55,020 seconds.
 (17) 45,840 „
 (18) 21,900 „
 (19) 1,318,015 days.
 (20) 1,489,930 „
 (21) 3,013,440 „
 (22) 446,428,800 seconds.
 (23) 250,387,200 „

EXERCISE 18.—*Continued.*

A	B
(24) 157,680,000 seconds.	(24) 843,264,000 seconds.
(25) 28,571,616,000 ,,	(25) 7,852,464,000 ,,
(26) 21,223,728,000 ,,	(26) 4,825,008,000 ,,
(27) 31,441,392,000 ,,	(27) 7,600,176,000 ,,
(28) 10,294 days.	(28) 24,912 days.
(29) 9,180 ,,	(29) 4,712 ,,
(30) 6,341 ,,	(30) 12,128 ,,
(31) 24,379 ,,	(31) 20,827 ,,
(32) 2,399,957 seconds.	(32) 7,049,785 seconds.
(33) 1,468,829 ,,	(33) 2,242,919 ,,
(34) 2,110,665 ,,	(34) 3,150,736 ,,
(35) 8,121,433 ,,	(35) 2,304,044 ,,

EXERCISE 19.

A	B
(1) 134 mins. 27 secs.	(1) 71 mins. 1 sec.
(2) 154 ,, 34 ,,	(2) 59 mins. 58 secs.
(3) 136 ,, 55 ,,	(3) 145 ,, 42 ,,
(4) 54 ,, 5 ,,	(4) 106 ,, 47 ,,
(5) 16 hrs. 47 mins.	(5) 134 hrs. 14 mins.
(6) 63 ,, 45 ,,	(6) 116 ,, 16 ,,
(7) 152 ,, 43 ,,	(7) 139 ,, 2 ,,
(8) 35 ,, 21 ,,	(8) 85 ,, 24 ,,
(9) 342 days 9 hrs.	(9) 80 dys. 4 hrs.
(10) 136 ,, 7 ,,	(10) 152 ,, 10 ,,
(11) 122 ,, 15 ,,	(11) 313 ,, 18 ,,
(12) 334 ,, 1 hr.	(12) 59 ,, 22 ,,
(13) 573 wks. 4 days.	(13) 608 wks. 6 days.
(14) 439 ,, 5 ,,	(14) 555 ,, 6 ,,
(15) 1,324 wks. 5 days.	(15) 1,116 wks. 0 days.
(16) 702 wks. 2 days.	(16) 1,151 ,, 5 ,,
(17) 574 mths. 1 week.	(17) 371 mths. 3 wks.
(18) 2,171 ,, 0 weeks.	(18) 2,105 ,, 0 ,,
(19) 348 ,, 3 ,,	(19) 1,558 ,, 3 ,,
(20) 1,204 ,, 0 ,,	(20) 2,427 ,, 3 ,,
(21) 772 yrs. 11 mths.	(21) 178 yrs. 7 mths.
(22) 684 ,, 5 ,,	(22) 510 ,, 8 ,,

EXERCISE 19.—*Continued.*

A	B
(23) 413 yrs. 8 mths.	(23) 450 ,, 5 ,,
(24) 228 ,, 2 ,,	(24) 559 ,, 2 ,,
(25) 25 hours 45 minutes 54 seconds.	(25) 22 hrs. 35 mins. 6 secs.
(26) 20 hours 1 minutes 33 seconds.	(26) 20 ,, 9 ,, 8 ,,
(27) 25 hrs. 36 mins. 14 secs.	(27) 25 ,, 33 ,, 31 ,,
(28) 22 ,, 48 ,, 55 ,,	(28) 3 ,, 53 ,, 36 ,,
(29) 25 ,, 36 ,, 13 ,,	(29) 5 ,, 0 ,, 9 ,,
(30) 8 ,, 36 ,, 4 ,,	(30) 26 ,, 17 ,, 37 ,,
(31) 1 year 7 mths. 1 week 1 day. 4 hrs.	(31) 10 yrs. 9 mths. 1 wk. 4 dys. 2 hrs.
(32) 4 yrs. 9 mths. 0 wks. 1 dy. 17 hrs.	(32) 12 yrs. 1 mth. 2 wks. 2 dys. 10 hrs.
(33) 11 yrs. 6 mths. 0 wks. 0 dys. 5 hrs.	(33) 1 yr. 6 mths. 0 wks. 0 dys. 10 hrs.
(34) 2 yrs. 6 mths. 0 wks. 6 dys. 3 hrs.	(34) 7 yrs. 11 mths. 2 wks. 2 dys. 11 hrs.
(35) 10 yrs. 2 mths. 1 wk. 1 dy. 18 hrs.	(35) 3 yrs. 2 mths. 0 wks. 3 dys. 19 hrs.
(36) 4 yrs. 7 mths. 3 wks. 1 dy. 3 hrs.	(36) 10 yrs. 5 mths. 2 wks. 3 dys. 10 hrs.
(37) 10 dys. 17 hrs. 35 mins. 54 secs.	(37) 4 dys. 17 hrs. 32 mins. 4 secs.
(38) 9 dys. 12 hrs. 15 mins. 54 secs.	(38) 7 dys. 6 hrs. 40 mins. 25 secs.
(39) 10 dys. 17 hrs. 39 mins. 8 secs.	(39) 10 dys. 15 hrs. 3 mins. 23 secs.
(40) 6 dys. 4 hrs. 51 mins. 46 secs.	(40) 3 dys. 16 hrs. 16 mins. 4 secs.
(41) 2 ,, 8 ,, 50 ,, 45 ,,	(41) 6 dys. 3 hrs. 13 mins. 35 secs.
(42) 9 ,, 9 ,, 12 ,, 12 ,,	(42) 7 days. 3 hrs. 18 mins. 38 secs.

MISCELLANEOUS EXERCISES.**EXERCISE 20.****A**

- (1) 720 hours.
- (2) 13 yrs. 1 wk. 5 days.
- (3) 744 hours.
- (4) 9,996 seconds, or 2 hrs. 46 mins. 36 secs.
- (5) 1,643,940 minutes.
- (6) 122,808 hours.
- (7) 172,800 seconds.
- (8) 12 wks. 6 dys. 2 hrs. 30 min.
- (9) 56,940.
- (10) 6 dys. 22 hrs. 40 min.

B

- (1) 720 hours.
- (2) 18 years.
- (3) 31 dys. 7 hrs. 11 mins 45 secs.
- (4) 52,560 hours.
- (5) 6 days.
- (6) 55 miles.
- (7) 6 hrs.
- (8) 378,691,200 seconds.
- (9) 1 wk. 1 dy. 4 hrs.
- (10) 43 miles.

LONG MEASURE.**EXERCISE 21.****A**

- (1) 25,728 furlongs.
- (2) 33,744 ,,
- (3) 131,000 poles.
- (4) 72,720 ,,
- (5) 23,193½ yards.
- (6) 16,973 ,,
- (7) 11,754 feet.
- (8) 3,645 ,,
- (9) 46,500 inches.
- (10) 26,352 ,,
- (11) 2,849,920 poles.
- (12) 1,348,800
- (13) 874 chains.
- (14) 1,687 chains 1 pole.
- (15) 2,053 chains 2 poles.
- (16) 39,740 chains.
- (17) 82,160 ,,
- (18) 39,170 ,,
- (19) 5,773,040 chains.
- (20) 6,572,320 ,,
- (21) 2,637,600 ,,

B

- (1) 36,880 furlongs.
- (2) 57,136 ,,
- (3) 166,480 poles.
- (4) 70,160 ,,
- (5) 12,006½ yards.
- (6) 17,682½ ,,
- (7) 13,851 feet.
- (8) 15,639 ,,
- (9) 55,404 inches.
- (10) 17,376 ,,
- (11) 2,375,360 poles.
- (12) 1,632,640 ,,
- (13) 1,864 chns. 2 pls.
- (14) 2,057 chns. 3 pls.
- (15) 490 chns. 2 pls.
- (16) 41,650 chains.
- (17) 87,470 ,,
- (18) 65,190 ,,
- (19) 5,717,200 chains.
- (20) 6,593,280 ,,
- (21) 5,665,920 ,,

EXERCISE 21.—*Continued.*

A	B
(22) 6,987 yards.	(22) 8,663½ yards.
(23) 15,260 „	(23) 9,154 „
(24) 12,797 „	(24) 12,890½ „
(25) 2,787 inches.	(25) 2,922 inches.
(26) 1,481 „	(26) 1,640 „
(27) 511 inches.	(27) 934 „

EXERCISE 22.

A	B
(1) 607 ft. 7 in.	(1) 205 ft. 3 ins.
(2) 325 „ 6 „	(2) 747 „ 10 „
(3) 601 „ 6 „	(3) 304 „ 3 „
(4) 331 „ 2 „	(4) 174 „ 1 „
(5) 3,071 yds. 2 ft.	(5) 1,880 yds. 1 ft.
(6) 1,020 „ 0 „	(6) 2,758 „ 1 „
(7) 3,032 „ 2 „	(7) 973 „ 0 „
(8) 2,426 „ 1 „	(8) 2,726 „ 2 „
(9) 1,491 pls. 4½ yds.	(9) 1,221 poles 2½ yds.
(10) 183 „ 3½ „	(10) 1,618 „ 3 „
(11) 493 „ 3½ „	(11) 382 „ 5 „
(12) 884 „ 1 „	(12) 1,294 „ 1 „
(13) 230 furs. 16 pls.	(13) 235 fur. + 16 poles.
(14) 180 „ 15 „	(14) 196 „ + 35 „
(15) 53 „ 37 „	(15) 152 „ + 27 „
(16) 97 „ 26 „	(16) 206 „ + 8 „
(17) 86 „ 22 „	(17) 231 „ + 6 „
(18) 1,027 mls. 3 furs.	(18) 806 mls. + 6 fur.
(19) 463 „ 2 „	(19) 876 „ + 3 „
(20) 240 „ 5 „	(20) 265 „ + 3 „
(21) 484 „ 2 „	(21) 530 „ + 5 „
(22) 902 mls. 3 fur.	(22) 688 mls. 6 fur.
(23) 1,494 pls.	(23) 1,474 pls. 1 yd.
(24) 694 pls. 4 yds	(24) 1,659 „ ½ „
(25) 1,704 „ 1 „	(25) 783 „ ½ „
(26) 1,799 „ 2½ „	(26) 1,357 „ 1½ „
(27) 562 „ 4 „	(27) 993 „ 2½ „

EXERCISE 22.—*Continued.*

A	B
(28) 201 yds. 0 ft. 9 ins.	(28) 112 yds. 2 ft. 6 ins.
(29) 256 ,, 0 ,, 1 ,,	(29) 149 ,, 1 ,, 2 ,,
(30) 117 ,, 0 ,, 0 ,,	(30) 256 yards.
(31) 108 ,, 1 ,, 6 ,,	(31) 198 yds. 1 ft. 4 ins.
(32) 246 ,, 2 ,, 8 ,,	(32) 130 ,, 0 ,, 0 ,,
(33) 32 furs. 32 po. 0 yds.	(33) 11 furs. 8 pls. 4 yds.
(34) 9 ,, 20. ,, 4 ,,	(34) 6 ,, 6 ,, 4 ,,
(35) 17 ,, 15 ,, 4½ ,,	(35) 40 ,, 38 ,, 4 ,,
(36) 41 ,, 35 ,, 2½ ,,	(36) 11 ,, 8 ,, 1 ,,
(37) 17 ,, 14 ,,	(37) 22 ,, 30 ,, 5 ,,
(38) 1 ml. 3 fur. 0 pls. 1 yd. 0 ft. 9 ins.	(38) 5 pls. 3½ yds. 0 ft. 7 ins.
(39) 5 furs. 13 pls. 1 yd. 0 ft. 2 ins.	(39) 22 ,, 4 ,, 0 ,, 1 ,,
(40) 4 ,, 32 ,, 1 ,, 1 ,, 8 ,,	(40) 1 fur. 5 pls. 1½ yds. 0 ft. 11 ins.
(41) 2 ,, 20 ,, 1 ,, 2 ,, 11 ,,	(41) 33 pls. 4½ yds. 1 ft. 10 ins.
(42) 4 ,, 27 ,, 4½ ,, 2 ,, 3 ,,	(42) 1 fur. 0 pls. 4 yds. 2 ft. 1 in.

MISCELLANEOUS EXERCISES.

EXERCISE 23.

A	B
(1) 190 chains.	(1) 37 chs. 2 poles.
(2) 31,680 inches.	(2) 15,840 inches.
(3) 10,560 feet.	(3) 12,606 feet.
(4) 750 yards.	(4) 32 poles.
(5) 15,840 feet.	(5) 66.
(6) 724 mls. 1 fur. 39 pls. 0½ yds.	(6) 63,360 stamps.
(7) 4,224 steps.	(7) 4 yds. 2 ft. 6 ins.
(8) 95 pipes.	(8) 2,112 times.
(9) 1,760 posts.	(9) 320 ins.

SQUARE MEASURE.

EXERCISE 24.

A	B
(1) 37,104 roods.	(1) 33,444 roods.
(2) 36,860 ,,	(2) 29,080 ,,
(3) 15,184 ,,	(3) 8,072 ,,
(4) 19,300 ,,	(4) 19,292 ,,

EXERCISE 24.—*Continued.*

A	B
(5) 37,456 ,,	(5) 6,148 roods. °
(6) 120,240 pls.	(6) 280,920 poles.
(7) 118,120 ,,	(7) 325,040 ,,
(8) 331,000 ,,	(8) 205,720 ,,
(9) 157,600 ,,	(9) 365,880 ,,
(10) 319,160 ,,	(10) 307,200 ,,
(11) 250,318 $\frac{3}{4}$ yds.	(11) 218,344 $\frac{1}{2}$ yards.
(12) 119,275 $\frac{3}{4}$,,	(12) 261,027 $\frac{1}{2}$,,
(13) 89,933 $\frac{1}{2}$,,	(13) 126,051 $\frac{3}{4}$,,
(14) 244,420 ,,	(14) 216,227 ,,
(15) 229,143 $\frac{3}{4}$,,	(15) 74,445 $\frac{1}{2}$,,
(16) 27,666 feet.	(16) 41,580 feet.
(17) 19,764 ,,	(17) 54,306 ,,
(18) 43,443 ,,	(18) 74,601 sq. feet.
(19) 17,676 ,,	(19) 12,978 feet.
(20) 35,352 ,,	(20) 53,577 ,,
(21) 1,177,200 sq. ins.	(21) 1,031,616 inches.
(22) 418,464 ,,	(22) 560,304 ,,
(23) 1,022,832 ,,	(23) 743,940 ,,
(24) 429,696 ,,	(24) 156,528 ,,
(25) 254,160 ,,	(25) 1,139,904 ,,
(26) 130,941,360 sq. feet.	(26) 164,700,360 sq. feet.
(27) 404,019,000 ,,	(27) 353,097,360 ,,
(28) 2,376,470 $\frac{1}{2}$ feet.	(28) 2,577,663 feet.
(29) 2,525,118 $\frac{3}{4}$,,	(29) 1,686,588 $\frac{3}{4}$,,
(30) 381,977,640 sq. feet.	(30) 122,229,360 sq. feet.
(31) 240,504 $\frac{1}{2}$ sq. yds.	(31) 235,693 $\frac{3}{4}$ sq. yds.
(32) 149,326 ,,	(32) 68,488 ,,
(33) 70,79 $\frac{1}{2}$,,	(33) 30,752 ,,
(34) 58,334 ,,	(34) 42,712 $\frac{3}{4}$,,
(35) 43,559 $\frac{3}{4}$,,	(35) 90,055 $\frac{1}{2}$,,
(36) 690,841 sq. ins.	(36) 726,076 sq. ins.
(37) 797,491 ,,	(37) 611,325 ,,
(38) 712,108 ,,	(38) 798,613 ,,
(39) 682,871 ,,	(39) 434,148 ,,
(40) 470,475 ,,	(40) 534,659 ,,

EXERCISE 25.

A	B
(1) 57 sq. ft. 67 sq. ins.	(1) 32 sq. ft. 9 sq. ins.
(2) 64 „ 60 „	(2) 57 „ 51 „
(3) 27 „ 20 „	(3) 17 „ 13 „
(4) 15 „ 15 „	(4) 36 „ 124 „
(5) 27 „ 53 „	(5) 54 „ 140 „
(6) 468 sq. yds. 5 sq. ft.	(6) 687 sq. yds. 2 sq. ft.
(7) 438 „ 6 „	(7) 532 „ 5 „
(8) 1,071 „ 3 „	(8) 957 „ 1 „
(9) 884 „ 7 „	(9) 567 „ 3 „
(10) 553 „ 4 „	(10) 803 „ 7 „
(11) 304 pls. 21 sq. yds.	(11) 271 sq. pls. 15½ sq. yds.
(12) 271 sq. pls. 17½ sq. yds.	(12) 139 „ 10½ „
(13) 66 pls. 9½ sq. yds.	(13) 301 sq. pls. 20¾ sq. yds.
(14) 53 „ 23¾ „	(14) 110 „ 17½ „
(15) 139 „ 10½ „	(15) 247 „ 14½ „
(16) 230 rds. + 5 pls.	(16) 181 roods 1 sq. pole.
(17) 120 „ + 6 „	(17) 80 „ 14 „
(18) 180 rds. 15 pls.	(18) 54 „ 38 „
(19) 150 „ 3 „	(19) 179 „ 5 „
(20) 230 „ 17 „	(20) 210 „ 24 „
(21) 2,068 acres 3 roods.	(21) 1,816 acres 1 rd.
(22) 751 „ 3 „	(22) 2,042 „ 0 „
(23) 2,321 „ 2 „	(23) 2,285 „ 3 „
(24) 1,049 „ 0 „	(24) 527 „ 0 „
(25) 2,053 „ 3 „	(25) 2,162 „ 3 „
(26) 130 pls. 14½ sq. yds.	(26) 236 pls. 9 sq. yds.
(27) 266 „ 28½ „	(27) 301 „ 20¾ „
(28) 306 „ 16½ „	(28) 169 „ 7¾ „
(29) 304 pls. 23 sq. yds.	(29) 133 „ 3¾ „
(30) 271 „ 17½ „	(30) 217 „ 27¾ „
(31) 28 sq. yds. 6 sq. ft. 65 sq. ins.	(31) 19 sq. yds. 33 sq. ins.
(32) 75 „ 7 „ 67 „	(32) 62 sq. yds. 4 sq. ft. 141 sq. ins.
(33) 33 „ 7 „ 142 „	(33) 43 „ 3 „ 88 „
(34) 61 „ 5 „ 111 „	(34) 67 „ 1 „ 41 „
(35) 29 „ 4 „ 137 „	(35) 69 „ 4 „ 21 „
(36) 76 rds. 25 pls. 15¾ sq. yds.	(36) 53 rds. 19 pls. 23¼ sq. yds.
(37) 67 „ 35 „ 28½ „	(37) 75 „ 16 „ 12 „
(38) 77 „ 19 „ 16½ „	(38) 68 „ 4 „ 11 „

EXERCISE 25.—*Continued.*

A	B
(39) 41 rds. 7 pls. $16\frac{1}{2}$ sq. yds.	(39) 11 rds. 23 pls. $14\frac{1}{2}$ sq. yds.
(40) 17 ,, 39 ,, $3\frac{1}{2}$,,	(40) 50 ,, 24 ,, 11 ,,
(41) 2 pls. $\frac{1}{2}$ sq. yd. 1 sq. ft. 17 ins.	(41) 1 pl. $10\frac{3}{4}$ s. yds. 6 s. ft. 123 s. ins.
(42) 2 ,, $2\frac{1}{2}$,, 3 ,, 74 ,,	(42) 0 ,, 24 ,, 0 ,, 108 ,,
(43) 2 ,, $15\frac{1}{2}$,, 8 ,, 88 ,,	(43) 1 ,, $7\frac{3}{4}$,, 3 ,, 21 ,,
(44) 1 ,, $22\frac{3}{4}$,, 1 ,, 143 ,,	(44) 1 ,, $16\frac{3}{4}$,, 6 ,, 6 ,,
(45) 2 pls. $15\frac{1}{2}$ sq. yds. 4 sq. ft. 3 sq. ins.	(45) 2 pls. $9\frac{1}{2}$ sq. yds. 3 sq. ft. 9 sq. ins.

MISCELLANEOUS EXERCISES.

EXERCISE 26.

A	B
(1) 52 sq. ft. 18 sq. ins.	(1) 9,060 pls. 4 yds.
(2) 51 acs. 2 rds. 24 pls. 14 yds.	(2) 954,861 $\frac{3}{4}$ feet.
(3) 2,304 sq. ins.	(3) 56 plots.
(4) 24 pls. 3 yds.	(4) £1,706 2s. 0d.
(5) 13 fields.	(5) 400 allotment.
(6) 28 acs. 1 rd. 6 pls. $16\frac{1}{2}$ yds.	(6) 1,548,800 sq. yds.
(7) 412 acs. 1 rd. 4 pls. 0 yds.	(7) 4 sq. pls. 12 sq. yds. 5 sq. feet.
(8) 32 hours.	(8) 304,240 sq ins.
(9) 175 sq. yds. 1 sq. ft.	(9) 12 sq. pls. $22\frac{1}{4}$ yds. 7 ft. 126 ins.

MISCELLANEOUS PROBLEMS.

EXERCISE 27.

A	B
(1) £56 1s. 6d.	(1) £3,473 15s. 0d.
(2) £52 3s. 5s. 6d.	(2) 48 h. pls.
(3) £816 19s. 6d.	(3) £9 2s. 6d.
(4) 1,344 half ozs.	(4) £462,407
(5) $18\frac{1}{13}$ yds.	(5) 7,040 + 9 times.
(6) 256 bottles.	(6) 264,960 mins.
(7) 2,505,600 seconds.	(7) 76,608 hrs.
(8) 16s. 8d.	(8) 117,417,600 secs.
(9) 160 fields.	(9) £6 1s. 8d.

EXERCISE 28.

A

- (1) £2,213 11s. 10½d.
- (2) £1 15s. 6d.
- (3) 896 packets.
- (4) £2 3s. 4d.
- (5) 268 times + 17s. 2d.
- (6) £37 15s. 5d.
- (7) 24 lbs. 13 ozs.
- (8) £14 9s. 1½d.

B

- (1) £75 16s. 0½d.
- (2) £1,840 15s. 7½d.
- (3) 1 hr. 41 mins. 2 secs.
- (4) £79 6s. 6d.
- (5) 120 yds.
- (6) 14,080 times round.
- (7) 18 lbs.
- (8) 160 packs.

EXTRA STANDARD WORK.

EXERCISE 29.

A

- (1) 197 tons. 17 cwts.
- (2) 108 lbs. 4 ozs. 3 drs.
- (3) 16 yrs. 11 mths. 2 wks.
- (4) 113 wks. 1 dy. 1 hr.
- (5) 175 mls. 3 fur. 10 pls.
- (6) 102 yds. 1 ft. 9 ins.
- (7) 181 sq. yds. 0 s. ft. 53sq. ins.
- (8) 173 acs. 3 rds. 31 pls.
- (9) 19 bush. 1 pk. 0 gals.
- (10) 14 qts. 1 pt. 0 gals.
- (11) 54 qrs. 1 st. 5 lbs.
- (12) 47 chs. 3 pls. ½ yd.

B

- (1) 19 tons. 18 cwts. 1 qr.
- (2) 4 lbs. 15 drs.
- (3) 1 yr. 3 wks.
- (4) 10 hrs. 22 mins. 31 secs.
- (5) 4 mls. 4 pls.
- (6) 1 yd. 1 ft.
- (7) 3 sq. yds. 102 sq. ins.
- (8) 2 acs. 3 rds. 24 pls.
- (9) 3 bush.
- (10) 3 gills.
- (11) 11 qrs. 0 sts. 13 lbs.
- (12) 6 chns. 2 pls. 4½ yds.

EXERCISE 30.

A

- (1) 75 tons 16 cwts. 1 qr. 25 lbs. ;
268 tons 6 cwts. 1 qr.
18 lbs.
- (2) 167 cwts. 2 qrs. 27 lbs.
2 ozs. ; 343 cwts. 1 qr.
24 lbs. 14 ozs.
- (3) 929 yrs. 11 mths. 3 dys. ;
1,015 yrs. 9 mths. 5 dys.
- (4) 179 yrs. 17 hrs. 50 mins.
40 secs. ; 824 dys. 16 hrs.
56 mins.

B

- (1) 13,457 tons 6 cwts. 1 qr.
20 lbs. ; 30,847 tons 2 cwts.
3 qrs. 12 lbs.
- (2) 74 lbs. 1 oz. 1 dwt. 18 grs. ;
128 lbs. 11 ozs. 13 dwt. 10 gra
- (3) 150 yrs. 31 wks. 5 dys. 4
hrs. ; 458 yrs. 35 wks. 1
dy. 10 hrs.
- (4) 456 yrs. 82 dys. 20 hrs.
50 mins. ; 850 yrs. 292 dys.
15 hrs. 30 mins.

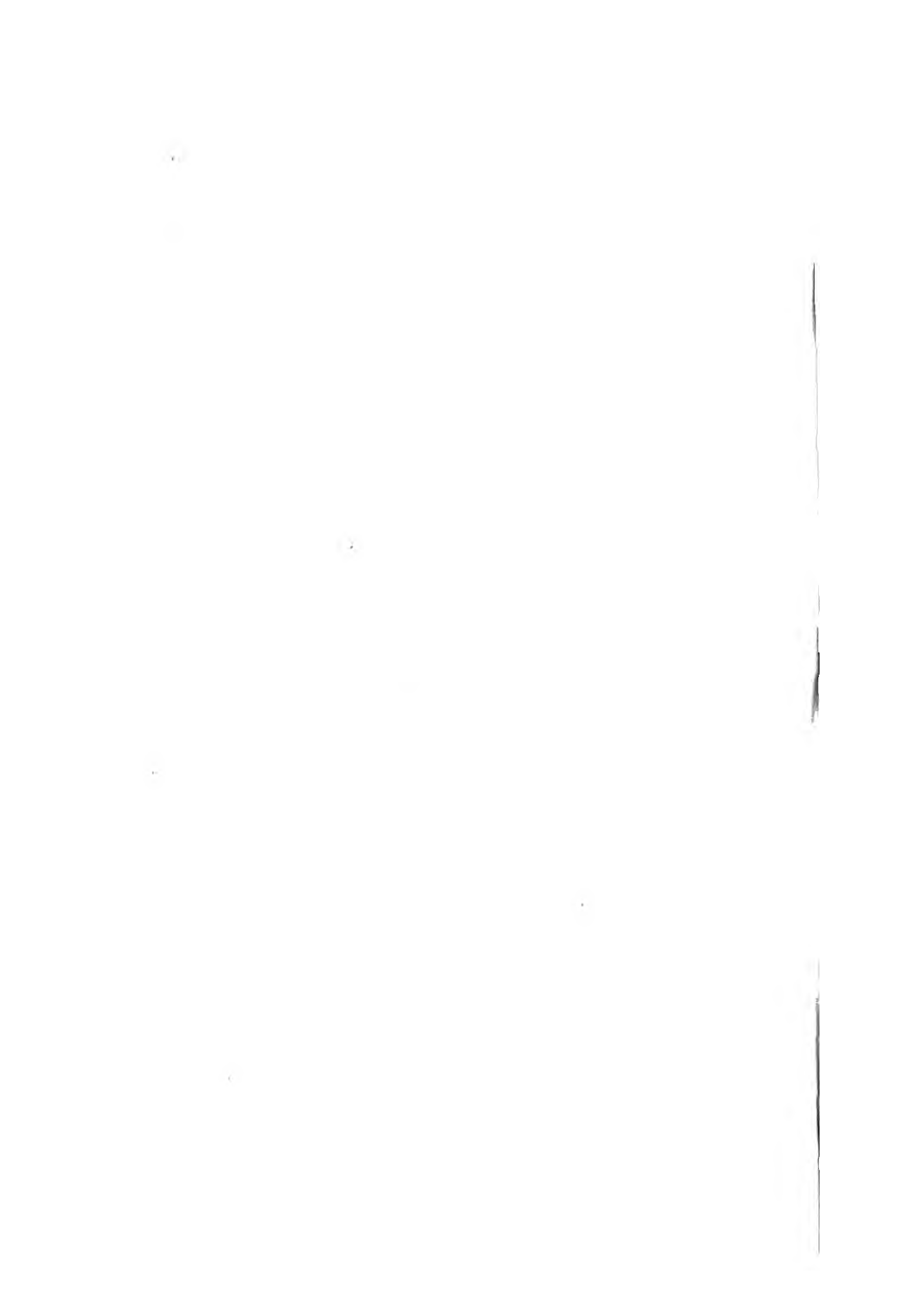
EXERCISE 30.—*Continued.*

A

- (5) 1,760 pls. 5 yds. 10 ins. ;
1,947 pls. $1\frac{1}{2}$ yds. 2 ft.
4 ins.
- (6) 455 sq. pls. $16\frac{3}{4}$ sq. yds.
1 sq. ft. 48 sq. ins. ; 435
sq. pls. $28\frac{3}{4}$ sq. yds. 3 sq.
ft. 128 sq. ins.
- (7) 308 pks. 3 qts. 1 pt. ; 376
pks.
- (8) 3,295 lds. 2 bush. ; 4,243 lds.
3 qrs. 1 bush.
- (9) 47 cwts. 69 lbs. 14 ozs. 11
drs. ; 353 cwts. 87 lbs, 6
ozs. 4 drs.
- 10) 58 tons 12 cwts. $19\frac{5}{7}$ lbs. ;
35 tons 13 cwt. 1 qr. 27 lbs.
- (11) 3 cwts. 1 qr. 6 lbs. 5 ozs.
+ $\frac{1}{8}$; 24 lbs. 14 ozs.
- (12) 12 yrs. 3 wks. 5 dys. ; 1 yr.
7 mths. 1 wk.
- (13) 1 yr. 42 wks. 2 dys. 5 hrs. ;
8 wks. 6 dys. 16 hrs.
- (14) 17 pls. 2 yds. 2 ft. 4 ins. +
12 ; 1 pl. 1 yd. 4 ins.
- (15) 29 sq. yds. 4 sq. ft. 132 sq.
ins. ; 3 sq. yds. 4 sq. ft.
28 sq. ins.
- (16) 2 pks. + $\frac{45}{9}$; 1 qt. + $\frac{45}{77}$.
- (17) 21 rms. 16 qrs. 13 shts. ;
1 rm. 8 qrs. 10 shts.

B

- (5) 90 mls. 3 fur. 27 pls. $4\frac{3}{4}$ yds. ;
179 mls. 24 pls. $5\frac{1}{2}$ yds.
- (6) 4,888 acs. 3 rds. 4 sq. pls.
25 sq. yds. ; 4,990 acs.
2 rds. 20 sq pls. 23 sq. yds.
- (7) 1,416 qrs. 7 bush. 3 pks.
1 gal ; 2,526 qrs. 3 bush.
1 pk.
- (8) 2,239 lds. 4 qrs. 3 bush. ;
4,230 lds. 4 qrs. 3 bush.
- (9) 129 cwts. 29 lbs. 12 ozs.
7 drs. ; 2,177 cwts. 12 lbs.
4 ozs.
- (10) 17 tons 1 qr. 25 lbs. ; 1 ton
7 cwts. 3 qrs. 4 lbs.
- (11) 38 lbs. 11 ozs. 1 dwt. 19
grs. ; 4 lbs. 4 ozs. 6 dwt.
18 grs.
- (12) 37 dys. 8 hrs. 50 mins. 44
secs. ; 2 dys. 20 hrs. 24 mins.
12 secs.
- (13) 359 dys. 18 hrs. 35 mins. ;
27 dys. 21 hrs. 20 mins.
- (14) 4 furs. 26 pls. 1 yd. ; 12 pls.
1 yd.
- (15) 5 acs. 3 rds. 20 pls. 25 yds. ;
2 rds. 8 sq. pls. 2 sq. yds.
- (16) 1 qr. 6 bush. + ; 1 bush.
1 pk. 1 gal. +.
- (17) 33 rms. 2 qrs. 3 shts. ; 2
rms. 13 qrs. 18 shts. +.



ANSWERS

TO

The Quarterly Arithmetic.

STANDARD V.

SIMPLE PRACTICE.

EXERCISE 1.

A			B												
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.				
(1)	0	4	2	(25)	1	2	4	(1)	0	6	3	(25)	0	17	3
(2)	0	5	0	(26)	0	11	4	(2)	0	7	6	(26)	1	2	2
(3)	0	8	5	(27)	1	5	5	(3)	0	12	7½	(27)	1	19	3
(4)	0	10	2	(28)	1	15	0	(4)	0	10	2	(28)	0	14	7
(5)	0	8	8	(29)	1	2	8	(5)	0	8	8	(29)	17	10	4
(6)	0	12	6	(30)	0	13	1	(6)	0	18	9	(30)	8	12	8
(7)	0	12	7	(31)	1	10	11	(7)	0	18	10½	(31)	10	13	5½
(8)	0	9	5	(32)	1	15	8	(8)	0	14	1½	(32)	13	12	1
(9)	0	16	10	(33)	1	12	5¼	(9)	0	8	5	(33)	2	0	6
(10)	0	12	11	(34)	1	15	0	(10)	0	19	4½	(34)	1	11	7½
(11)	0	4	11	(35)	2	4	0¾	(11)	0	7	4½	(35)	1	2	6
(12)	0	17	11½	(36)	2	9	6	(12)	0	8	11¾	(36)	1	14	4½
(13)	0	10	6¾	(37)	7	10	6	(13)	0	10	6¾	(37)	1	18	0
(14)	0	11	9½	(38)	12	11	7½	(14)	0	17	8¼	(38)	1	16	0
(15)	0	19	7	(39)	9	8	6	(15)	0	9	9½	(39)	12	16	0
(16)	0	13	0¼	(40)	19	8	3	(16)	0	13	0¼	(40)	20	7	0
(17)	1	9	5½	(41)	26	14	0	(17)	0	17	0	(41)	25	6	7½
(18)	1	4	2	(42)	25	9	10½	(18)	0	12	8	(42)	16	13	10½
(19)	0	17	11	(43)	17	2	0	(19)	1	6	8	(43)	16	7	7½
(20)	1	19	5	(44)	28	10	0	(20)	2	0	4	(44)	22	13	4½
(21)	1	5	1	(45)	15	18	9¾	(21)	1	2	0	(45)	19	13	1½
(22)	1	2	4½	(46)	20	7	3	(22)	1	0	4	(46)	17	2	0
(23)	1	14	11	(47)	23	11	5¼	(23)	1	7	4	(47)	7	19	9
(24)	1	13	9½	(48)	18	11	4½	(24)	0	12	7½	(48)	22	16	6

EXERCISE 2.

A			B												
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.				
(1)	2	14	0	(25)	55	18	1½	(1)	0	13	6	(25)	55	18	1½
(2)	2	2	2	(26)	57	7	6	(2)	1	1	1	(26)	86	1	3
(3)	1	10	0	(27)	38	4	7	(3)	0	7	6	(27)	57	6	10½
(4)	2	5	10	(28)	75	3	11½	(4)	1	5	4	(28)	75	3	11½
(5)	10	13	4	(29)	31	7	5½	(5)	32	0	0	(29)	94	2	4½
(6)	16	19	2	(30)	60	3	4¼	(6)	50	17	6	(30)	60	3	4¼
(7)	21	2	2¼	(31)	80	4	10¼	(7)	21	2	2¼	(31)	80	4	10¼
(8)	13	18	2¾	(32)	94	1	5½	(8)	41	14	8¼	(32)	47	0	8¾
(9)	19	13	1½	(33)	68	6	0	(9)	19	13	1½	(33)	102	9	0
(10)	17	2	0	(34)	30	4	0	(10)	51	6	0	(34)	45	6	0
(11)	7	19	10½	(35)	75	7	6	(11)	23	19	7½	(35)	113	1	3
(12)	22	16	6	(36)	90	13	6	(12)	22	16	6	(36)	90	13	6
(13)	9	6	6¼	(37)	87	2	0	(13)	27	19	6¾	(37)	130	13	0
(14)	22	5	2¾	(38)	74	11	2½	(14)	66	15	8¼	(38)	111	16	9¾
(15)	20	2	7¾	(39)	115	8	0½	(15)	60	7	11½	(39)	57	14	0¼
(16)	42	19	11¾	(40)	94	15	10	(16)	42	19	11¾	(40)	47	7	11
(17)	44	7	8	(41)	119	0	0	(17)	44	7	8	(41)	59	10	0
(18)	45	12	8	(42)	60	8	1	(18)	68	9	0	(42)	90	12	1½
(19)	70	2	4	(43)	94	15	3	(19)	35	1	2	(43)	142	2	10½
(20)	25	8	0	(44)	81	14	2½	(20)	38	2	0	(44)	81	14	2½
(21)	25	14	6	(45)	100	10	0	(21)	38	11	9	(45)	100	10	0
(22)	47	15	6	(46)	78	5	0	(22)	71	13	3	(46)	117	7	6
(23)	68	3	1½	(47)	89	15	7½	(23)	34	1	6¾	(47)	89	15	7½
(24)	59	6	8¼	(48)	37	10	0	(24)	59	6	8¼	(48)	56	5	0

EXERCISE 3.

A			B												
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.				
(1)	47	4	0	(9)	92	14	0	(1)	70	16	0	(9)	139	1	0
(2)	66	16	0	(10)	45	6	0	(2)	100	4	0	(10)	67	19	0
(3)	107	2	0	(11)	132	9	0	(3)	160	13	0	(11)	132	9	0
(4)	90	7	4	(12)	122	14	9	(4)	90	7	4	(12)	184	2	1½
(5)	69	14	0	(13)	195	14	0	(5)	104	11	0	(13)	97	17	0
(6)	107	9	1	(14)	111	5	9¼	(6)	161	3	7½	(14)	104	3	3¼
(7)	149	13	5	(15)	153	7	8½	(7)	74	16	8½	(15)	153	7	8½
(8)	98	10	7	(16)	48	16	11	(8)	147	15	10½	(16)	73	5	4½

EXERCISE 3.—Continued.

A						B					
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
(17)	116	0 0	(33)	126	3 0	(17)	174	0 0	(33)	126	3 0
(18)	139	8 4	(34)	163	10 0	(18)	69	14 2	(34)	245	5 0
(19)	151	4 2	(35)	119	4 0	(19)	151	4 2	(35)	178	16 0
(20)	142	5 10	(36)	152	12 6	(20)	142	5 10	(36)	152	12 6
(21)	217	7 0	(37)	170	0 0	(21)	217	7 0	(37)	255	0 0
(22)	120	1 10½	(38)	218	1 11¾	(22)	180	2 9¾	(38)	218	1 11¾
(23)	169	0 1½	(39)	223	5 7½	(23)	84	10 0¼	(39)	111	12 9¾
(24)	121	18 7½	(40)	184	15 10	(24)	121	18 7½	(40)	92	7 11
(25)	227	14 0	(41)	232	4 3	(25)	113	17 0	(41)	116	2 1½
(26)	165	14 8	(42)	200	5 7½	(26)	165	14 8	(42)	200	5 7½
(27)	146	15 2	(43)	169	9 9	(27)	146	15 2	(43)	169	9 9
(28)	56	7 6	(44)	148	6 2	(28)	84	11 3	(44)	148	6 2
(29)	201	5 0	(45)	232	10 9	(29)	201	5 0	(45)	232	10 9
(30)	220	12 2	(46)	151	2 10½	(30)	220	12 2	(46)	151	2 10½
(31)	161	5 9	(47)	192	18 2¼	(31)	161	5 9	(47)	192	18 2¼
(32)	203	13 10½	(48)	241	1 9	(32)	101	16 11½	(48)	120	10 10½

EXERCISE 4.

A						B					
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
(1)	242	18 7	(19)	175	12 0	(1)	157	0 8	(19)	175	12 0
(2)	277	8 8	(20)	212	17 4	(2)	193	11 7	(20)	212	17 4
(3)	188	9 6	(21)	294	9 1½	(3)	109	7 6	(21)	147	4 6¾
(4)	72	18 4	(22)	177	12 3¾	(4)	282	14 3	(22)	177	12 3¾
(5)	160	17 9½	(23)	282	3 0	(5)	160	17 9½	(23)	282	3 0
(6)	289	6 8½	(24)	312	6 7½	(6)	144	13 4¼	(24)	312	6 7½
(7)	196	16 9	(25)	259	8 6½	(7)	295	5 1½	(25)	259	8 6½
(8)	193	4 10¼	(26)	302	6 4	(8)	193	4 10¼	(26)	151	3 2
(9)	177	7 6	(27)	180	17 5½	(9)	266	1 3	(27)	180	17 5½
(10)	227	0 7½	(28)	216	12 2	(10)	227	0 7½	(28)	324	18 3
(11)	306	15 0	(29)	306	2 9¾	(11)	153	7 6	(29)	306	2 9¾
(12)	291	5 7½	(30)	208	16 8	(12)	291	5 7½	(30)	313	5 0
(13)	173	11 4¼	(31)	276	18 9	(13)	173	11 4¼	(31)	276	18 9
(14)	189	14 11	(32)	239	10 7½	(14)	284	12 4½	(32)	359	5 11¼
(15)	242	10 2½	(33)	304	1 9	(15)	242	10 2½	(33)	304	1 9
(16)	283	3 3¾	(34)	155	9 6	(16)	283	3 3¾	(34)	233	4 3
(17)	264	2 8	(35)	246	9 0	(17)	243	2 8	(35)	369	13 6
(18)	189	2 8	(36)	200	18 6	(18)	283	14 0	(36)	200	18 6

EXERCISE 2.

A			B												
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.				
(1)	2	14	0	(25)	55	18	1½	(1)	0	13	6	(25)	55	18	1½
(2)	2	2	2	(26)	57	7	6	(2)	1	1	1	(26)	86	1	3
(3)	1	10	0	(27)	38	4	7	(3)	0	7	6	(27)	57	6	10½
(4)	2	5	10	(28)	75	3	11½	(4)	1	5	4	(28)	75	3	11½
(5)	10	13	4	(29)	31	7	5½	(5)	32	0	0	(29)	94	2	4½
(6)	16	19	2	(30)	60	3	4¼	(6)	50	17	6	(30)	60	3	4¼
(7)	21	2	2¼	(31)	80	4	10¼	(7)	21	2	2¼	(31)	80	4	10¼
(8)	13	18	2¾	(32)	94	1	5½	(8)	41	14	8¼	(32)	47	0	8¾
(9)	19	13	1½	(33)	68	6	0	(9)	19	13	1½	(33)	102	9	0
(10)	17	2	0	(34)	30	4	0	(10)	51	6	0	(34)	45	6	0
(11)	7	19	10½	(35)	75	7	6	(11)	23	19	7½	(35)	113	1	3
(12)	22	16	6	(36)	90	13	6	(12)	22	16	6	(36)	90	13	6
(13)	9	6	6¼	(37)	87	2	0	(13)	27	19	6¾	(37)	130	13	0
(14)	22	5	2¾	(38)	74	11	2½	(14)	66	15	8¼	(38)	111	16	9¾
(15)	20	2	7¾	(39)	115	8	0½	(15)	60	7	11¼	(39)	57	14	0¼
(16)	42	19	11¾	(40)	94	15	10	(16)	42	19	11¾	(40)	47	7	11
(17)	44	7	8	(41)	119	0	0	(17)	44	7	8	(41)	59	10	0
(18)	45	12	8	(42)	60	8	1	(18)	68	9	0	(42)	90	12	1½
(19)	70	2	4	(43)	94	15	3	(19)	35	1	2	(43)	142	2	10½
(20)	25	8	0	(44)	81	14	2½	(20)	38	2	0	(44)	81	14	2½
(21)	25	14	6	(45)	100	10	0	(21)	38	11	9	(45)	100	10	0
(22)	47	15	6	(46)	78	5	0	(22)	71	13	3	(46)	117	7	6
(23)	68	3	1½	(47)	89	15	7½	(23)	34	1	6¾	(47)	89	15	7½
(24)	59	6	8¼	(48)	37	10	0	(24)	59	6	8¼	(48)	56	5	0

EXERCISE 3.

A			B												
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.				
(1)	47	4	0	(9)	92	14	0	(1)	70	16	0	(9)	139	1	0
(2)	66	16	0	(10)	45	6	0	(2)	100	4	0	(10)	67	19	0
(3)	107	2	0	(11)	132	9	0	(3)	160	13	0	(11)	132	9	0
(4)	90	7	4	(12)	122	14	9	(4)	90	7	4	(12)	184	2	1½
(5)	69	14	0	(13)	195	14	0	(5)	104	11	0	(13)	97	17	0
(6)	107	9	1	(14)	111	5	9¼	(6)	161	3	7½	(14)	104	3	3¼
(7)	149	13	5	(15)	153	7	8½	(7)	74	16	8½	(15)	153	7	8½
(8)	98	10	7	(16)	48	16	11	(8)	147	15	10½	(16)	73	5	4½

EXERCISE 3.—*Continued.*

A						B					
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
(17)	116	0 0	(33)	126	3 0	(17)	174	0 0	(33)	126	3 0
(18)	139	8 4	(34)	163	10 0	(18)	69	14 2	(34)	245	5 0
(19)	151	4 2	(35)	119	4 0	(19)	151	4 2	(35)	178	16 0
(20)	142	5 10	(36)	152	12 6	(20)	142	5 10	(36)	152	12 6
(21)	217	7 0	(37)	170	0 0	(21)	217	7 0	(37)	255	0 0
(22)	120	1 10½	(38)	218	1 11¾	(22)	180	2 9¾	(38)	218	1 11¾
(23)	169	0 1½	(39)	223	5 7½	(23)	84	10 0¾	(39)	111	12 9¾
(24)	121	18 7½	(40)	184	15 10	(24)	121	18 7½	(40)	92	7 11
(25)	227	14 0	(41)	232	4 3	(25)	113	17 0	(41)	116	2 1½
(26)	165	14 8	(42)	200	5 7½	(26)	165	14 8	(42)	200	5 7½
(27)	146	15 2	(43)	169	9 9	(27)	146	15 2	(43)	169	9 9
(28)	56	7 6	(44)	148	6 2	(28)	84	11 3	(44)	148	6 2
(29)	201	5 0	(45)	232	10 9	(29)	201	5 0	(45)	232	10 9
(30)	220	12 2	(46)	151	2 10½	(30)	220	12 2	(46)	151	2 10½
(31)	161	5 9	(47)	192	18 2½	(31)	161	5 9	(47)	192	18 2½
(32)	203	13 10½	(48)	241	1 9	(32)	101	16 11½	(48)	120	10 10½

EXERCISE 4.

A						B					
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
(1)	242	18 7	(19)	175	12 0	(1)	157	0 8	(19)	175	12 0
(2)	277	8 8	(20)	212	17 4	(2)	193	11 7	(20)	212	17 4
(3)	188	9 6	(21)	294	9 1½	(3)	109	7 6	(21)	147	4 6¾
(4)	72	18 4	(22)	177	12 3¾	(4)	282	14 3	(22)	177	12 3¾
(5)	160	17 9½	(23)	282	3 0	(5)	160	17 9½	(23)	282	3 0
(6)	289	6 8½	(24)	312	6 7½	(6)	144	13 4¼	(24)	312	6 7½
(7)	196	16 9	(25)	259	8 6½	(7)	295	5 1½	(25)	259	8 6½
(8)	193	4 10¼	(26)	302	6 4	(8)	193	4 10¼	(26)	151	3 2
(9)	177	7 6	(27)	180	17 5½	(9)	266	1 3	(27)	180	17 5½
(10)	227	0 7½	(28)	216	12 2	(10)	227	0 7½	(28)	324	18 3
(11)	306	15 0	(29)	306	2 9¾	(11)	153	7 6	(29)	306	2 9¾
(12)	291	5 7½	(30)	208	16 8	(12)	291	5 7½	(30)	313	5 0
(13)	173	11 4¼	(31)	276	18 9	(13)	173	11 4¼	(31)	276	18 9
(14)	189	14 11	(32)	239	10 7½	(14)	284	12 4½	(32)	359	5 11¼
(15)	242	10 2½	(33)	304	1 9	(15)	242	10 2½	(33)	304	1 9
(16)	283	3 3¾	(34)	155	9 6	(16)	283	3 3¾	(34)	233	4 3
(17)	264	2 8	(35)	246	9 0	(17)	243	2 8	(35)	369	13 6
(18)	189	2 8	(36)	200	18 6	(18)	283	14 0	(36)	200	18 6

EXERCISE 4.—*Continued.*

A			B												
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.				
(37)	181	15	3	(43)	277	19	1	(37)	311	3	8½	(43)	138	19	6½
(38)	242	7	9½	(44)	101	6	8	(38)	242	7	9½	(44)	152	0	0
(39)	210	18	9½	(45)	266	19	9	(39)	210	18	9½	(45)	400	9	7½
(40)	350	19	11¾	(46)	376	11	10½	(40)	350	19	11¾	(46)	376	11	10½
(41)	210	18	0	(47)	235	15	9	(41)	210	18	0	(47)	235	15	9
(42)	221	7	0	(48)	244	1	6	(42)	332	0	6	(48)	244	1	6

EXERCISE 5.

A			B												
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.				
(1)	248	6	8	(24)	402	12	2½	(1)	124	3	4	(24)	382	13	9
(2)	323	1	8	(25)	426	5	4	(2)	87	13	4	(25)	437	2	10½
(3)	350	13	4	(26)	367	19	0½	(3)	130	19	2	(26)	146	16	4
(4)	225	6	8	(27)	260	11	5	(4)	153	17	6	(27)	442	15	0
(5)	311	3	5½	(28)	462	0	3	(5)	77	18	0	(28)	424	15	7½
(6)	375	8	1½	(29)	368	1	4½	(6)	55	7	10½	(29)	471	3	6
(7)	311	12	0	(30)	476	7	3½	(7)	111	12	9½	(30)	313	18	5
(8)	219	1	0¼	(31)	440	0	9	(8)	59	14	1½	(31)	182	0	6½
(9)	358	19	4½	(32)	467	4	2¼	(9)	28	0	0	(32)	120	4	10
(10)	355	19	0	(33)	0	7	6	(10)	71	17	7½	(33)	1	2	6
(11)	410	11	0	(34)	0	14	2	(11)	202	15	7½	(34)	2	2	6
(12)	113	8	0	(35)	1	2	2	(12)	126	19	3	(35)	3	6	6
(13)	243	2	7	(36)	1	17	6	(13)	134	11	1	(36)	6	13	4
(14)	304	9	10½	(37)	44	1	10	(14)	243	2	7	(37)	132	5	6
(15)	294	12	9½	(38)	31	6	3	(15)	304	9	10½	(38)	93	18	9
(16)	400	1	7	(39)	22	13	0	(16)	294	12	9½	(39)	67	19	0
(17)	242	5	6	(40)	60	0	11¼	(17)	396	3	8	(40)	180	2	9¾
(18)	337	10	4	(41)	40	16	0¼	(18)	285	15	5	(41)	122	8	0¾
(19)	315	2	1	(42)	85	0	0	(19)	281	12	11	(42)	255	0	0
(20)	391	6	6	(43)	101	16	10½	(20)	411	3	5	(43)	305	10	7½
(21)	317	10	7½	(44)	104	8	4	(21)	169	8	1½	(44)	313	5	0
(22)	445	17	6	(45)	90	17	7½	(22)	273	0	0	(45)	272	12	10½
(23)	278	18	1½	(46)	143	15	3	(23)	333	3	9	(46)	431	5	9
	(47)	£475	2s.	9¾d.					(47)	£470	7s.	10d.			

EXERCISE 6.

A						B									
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.				
(1)	0	5	8½	(8)	93	15	9	(1)	2	2	6	(8)	89	11	6½
(2)	9	1	3	(9)	219	2	1	(2)	1	0	11¾	(9)	319	10	3¾
(3)	5	15	3½	(10)	210	5	3	(3)	12	0	4½	(10)	249	11	3
(4)	7	6	1½	(11)	0	15	8	(4)	9	7	6	(11)	16	11	3
(5)	73	8	1½	(12)	10	5	3¾	(5)	38	7	9	(12)	3	0	0
(6)	69	15	11	(13)	65	12	6	(6)	54	16	9½	(13)	0	10	5
(7)	36	11	3	(14)	10	15	7½	(7)	107	12	7½	(14)	71	17	6

EXERCISE 7.

A			B				
£	s.	d.	£	s.	d.		
(1)	108	0	0	(1)	425	10	0
(2)	106	0	0	(2)	283	13	4
(3)	54	0	0	(3)	91	0	0
(4)	106	0	0	(4)	249	15	0
(5)	53	0	0	(5)	199	16	0
(6)	19	0	0	(6)	77	0	0
(7)	53	0	0	(7)	72	10	0
(8)	12	13	4	(8)	98	7	6
(9)	53	6	8	(9)	43	10	0
(10)	62	0	0	(10)	32	1	8
(11)	40	0	0	(11)	52	9	4
(12)	41	6	8	(12)	13	13	0
(13)	44	8	9	(13)	29	12	6
(14)	59	8	0	(14)	28	16	0
(15)	15	18	6	(15)	7	19	3
(16)	151	0	6	(16)	53	18	9
(17)	35	9	6	(17)	56	8	9
(18)	49	19	0	(18)	83	5	0
(19)	136	14	4	(19)	347	1	0
(20)	201	9	0	(20)	592	10	0
(21)	73	10	0	(21)	189	0	0
(22)	32	7	6	(22)	74	0	0
(23)	154	16	6	(23)	422	5	0
(24)	130	8	0	(24)	195	12	0
(25)	200	16	3	(25)	446	5	0
(26)	291	18	0	(26)	182	8	9

EXERCISE 7.—*Continued.*

A				B			
	£	s.	d.		£	s.	d.
(27)	231	5	0	(27)	71	13	9
(28)	187	14	2	(28)	142	13	2
(29)	46	0	6	(29)	24	13	1½
(30)	197	14	2	(30)	133	16	8
(31)	232	0	7½	(31)	42	19	4½
(32)	208	8	6	(32)	107	10	5
(33)	621	15	0	(33)	464	6	8½
(34)	269	19	2	(34)	420	17	9½
(35)	872	7	11	(35)	1,483	1	3
(36)	175	12	8¾	(36)	1,882	10	10½
(37)	1,041	19	8¾	(37)	2,535	4	0
(38)	987	4	5	(38)	1,097	7	0
(39)	1,017	5	6	(39)	1,601	18	6
(40)	270	19	4½	(40)	2,512	0	8
(41)	1,020	6	6½	(41)	1,504	16	0
(42)	336	10	11	(42)	2,399	7	3
(43)	760	11	10½	(43)	2,950	7	0
(44)	594	5	7	(44)	1,050	12	3½
(45)	843	10	0	(45)	2,626	11	9½
(46)	1,534	17	4	(46)	1,239	15	6
(47)	1,076	15	6	(47)	2,162	8	4
(48)	1,277	14	2	(48)	856	6	3¾

EXERCISE 8.

A				B			
	£	s.	d.		£	s.	d.
(1)	3,210	0	0	(1)	5,964	0	0
(2)	7,327	0	0	(2)	8,673	0	0
(3)	13,416	16	0	(3)	10,512	0	0
(4)	20,574	0	0	(4)	23,769	4	0
(5)	23,638	12	0	(5)	30,270	12	0
(6)	2,464	0	0	(6)	3,280	0	0
(7)	5,200	0	0	(7)	6,634	0	0
(8)	11,319	0	0	(8)	12,141	0	0
(9)	13,968	0	0	(9)	15,369	0	0
(10)	7,527	12	0	(10)	16,481	13	4
(11)	11,922	16	0	(11)	2,160	0	0

EXERCISE 8.—*Continued.*

A				B			
	£	s.	d.		£	s.	d.
(12)	15,500	0	0	(12)	4,028	0	0
(13)	17,622	0	0	(13)	20,437	6	8
(14)	18,144	0	0	(14)	24,622	16	0
(15)	15,341	6	8	(15)	6,507	10	0
(16)	21,081	6	8	(16)	11,056	10	0
(17)	3,690	0	0	(17)	20,861	0	0
(18)	8,712	0	0	(18)	33,600	0	0
(19)	23,125	12	0	(19)	35,441	4	0
(20)	4,662	0	0	(20)	34,350	0	0
(21)	21,304	8	0	(21)	19,444	10	0
(22)	7,893	6	8	(22)	9,856	0	0
(23)	36,210	0	0	(23)	21,204	0	0
(24)	2,577	13	4	(24)	4,997	0	0
(25)	8,210	5	0	(25)	2,907	0	0
(26)	6,532	0	0	(26)	10,678	16	0
(27)	5,277	13	4	(27)	48,222	3	4
(28)	37,094	0	0	(28)	24,269	8	0
(29)	9,613	10	0	(29)	16,139	16	8
(30)	1,727	2	0	(30)	26,638	19	0
(31)	8,464	10	0	(31)	2,079	0	0
(32)	15,756	15	0	(32)	2,835	0	0

EXERCISE 9.

A				B			
	£	s.	d.		£	s.	d.
(1)	7,605	1	4	(1)	8,169	1	4
(2)	20,629	9	4	(2)	20,860	18	8
(3)	5,313	6	0	(3)	16,929	0	0
(4)	11,592	17	4	(4)	16,147	12	0
(5)	18,662	8	0	(5)	38,976	12	0
(6)	64,123	14	8	(6)	16,521	17	4
(7)	9,577	13	4	(7)	26,000	14	8
(8)	16,088	2	0	(8)	8,891	6	0
(9)	4,880	14	0	(9)	7,069	18	8
(10)	1,057	16	0	(10)	3,186	6	0
(11)	1,523	4	0	(11)	111	4	0
(12)	170	0	0	(12)	3,718	15	0

EXERCISE 9.—*Continued.*

A				B			
	£	s.	d.		£	s.	d.
(13)	63	0	0	(13)	4,114	16	0
(14)	109	17	0	(14)	152	2	0
(15)	90	2	8	(15)	195	4	4
(16)	617	0	0	(16)	7,097	10	0
(17)	20,070	12	0	(17)	27,630	7	0
(18)	47,530	13	4	(18)	31,650	0	0
(19)	56,223	7	6	(19)	18,955	8	4
(20)	72,981	15	0	(20)	73	16	0
(21)	43,614	17	0	(21)	67,211	6	8
(22)	29,462	8	0	(22)	5,260	13	4
(23)	380	5	0	(23)	74,893	0	0
(24)	51,943	10	0	(24)	9,040	17	0
(25)	34,677	18	0	(25)	641	1	8
(26)	9,758	17	0	(26)	26,549	7	6
(27)	119,596	3	3	(27)	22,590	7	6
(28)	3,239	5	0	(28)	150,833	12	0
(29)	105,397	17	6	(29)	111,739	5	4
(30)	342,666	8	0	(30)	1,497	12	0
(31)	18,149	6	0	(31)	80,355	6	8
(32)	150,942	2	0	(32)	4,701	13	6

EXERCISE 10.

A				B			
	£	s.	d.		£	s.	d.
(1)	9,762	10	0	(1)	10,486	0	0
(2)	2,377	12	0	(2)	1,177	5	0
(3)	43,082	6	8	(3)	17,977	4	0
(4)	10,101	0	0	(4)	10,681	5	4
(5)	16,621	11	8	(5)	9,052	1	3
(6)	22,427	13	0	(6)	1,932	18	0
(7)	28,875	0	0	(7)	12,103	0	0
(8)	9,155	5	0	(8)	28,655	15	0
(9)	1,444	0	0	(9)	34,398	7	6
(10)	8,777	12	6	(10)	2,857	19	0
(11)	14,299	0	0	(11)	5,227	10	0
(12)	45,642	8	0	(12)	9,038	5	0
(13)	6,457	3	4	(13)	28,006	12	0

EXERCISE 10.—*Continued.*

A				B			
	£	s.	d.		£	s.	d.
(14)	3,022	10	0	(14)	2,106	13	4
(15)	19,990	3	4	(15)	2,452	6	3
(16)	2,958	10	0	(16)	4,860	2	0
(17)	7,966	10	0	(17)	19,699	7	6
(18)	2,429	12	6	(18)	34,788	1	6
(19)	7,052	10	0	(19)	558	15	0
(20)	22,824	7	6	(20)	493	1	8
(21)	1,508	10	0	(21)	24,151	5	0
(22)	32,097	12	0	(22)	1,653	15	0
(23)	5,625	16	8	(23)	46,046	0	0
(24)	5,738	0	0	(24)	2,053	15	0
(25)	2,815	1	8	(25)	12,742	3	9
(26)	23,235	19	0	(26)	7,238	11	0
(27)	6,662	15	0	(27)	6,365	0	10
(28)	14,878	2	6	(28)	18,711	16	6
(29)	4,779	18	0	(29)	1,920	11	8
(30)	11,222	15	0	(30)	21,179	16	3
(31)	29,589	14	7	(31)	46,087	8	2 $\frac{1}{4}$
(32)	30,938	11	1 $\frac{1}{2}$	(32)	19,489	15	1 $\frac{1}{2}$
(33)	17,685	13	7 $\frac{3}{4}$	(33)	26,557	14	8 $\frac{1}{4}$
(34)	9,428	13	0	(34)	27,845	8	7 $\frac{1}{2}$

EXERCISE 11.

A				B			
	£	s.	d.		£	s.	d.
(1)	1,959	12	0	(1)	7,624	4	0
(2)	2,152	0	0	(2)	5,390	18	0
(3)	2,915	10	0	(3)	6,141	6	8
(4)	1,593	16	0	(4)	9,574	16	7
(5)	6,227	13	4	(5)	17,193	0	9
(6)	3,999	2	3	(6)	28,912	18	8
(7)	30,841	2	6	(7)	34,102	7	11 $\frac{3}{4}$
(8)	19,926	8	8	(8)	290,261	16	1 $\frac{3}{4}$
(9)	92,904	14	7	(9)	195,426	2	9
(10)	52,630	2	6	(10)	192,431	16	8
(11)	171,262	5	7 $\frac{1}{2}$	(11)	597,494	11	1 $\frac{3}{4}$
(12)	184,241	14	4 $\frac{1}{2}$	(12)	722,335	3	1 $\frac{1}{2}$

EXERCISE 11.—*Continued.*

A				B			
	£	s.	d.		£	s.	d.
(13)	254,823	15	7½	(13)	2,668,648	2	3
(14)	804,797	2	8½	(14)	1,415,745	14	4
(15)	372,988	7	0	(15)	1,108,033	19	8½
(16)	436,626	2	4¾	(16)	5,713,864	11	7
(17)	1,539,729	4	5	(17)	1,601,301	1	11½
(18)	291	0	8¾	(18)	399	15	3¾
(19)	128	1	11	(19)	273	0	7
(20)	624	4	4	(20)	308	13	1½
(21)	623	2	7¼	(21)	403	3	8
(22)	361	7	2¾	(22)	178	7	10½
(23)	858	7	2½	(23)	466	13	0½
(24)	1,200	3	9	(24)	1,745	3	1½
(25)	2,147	2	6	(25)	954	5	11
(26)	912	7	11	(26)	1,288	19	2¼
(27)	701	17	4½	(27)	3,091	13	7½
(28)	5,449	13	10¾	(28)	4,509	7	2¾
(29)	3,073	5	3	(29)	3,317	16	3½
(30)	5,304	9	0¾	(30)	3,621	10	2
(31)	2,205	16	10½	(31)	2,114	5	5¼
(32)	11,024	11	5	(32)	8,935	17	6
(33)	20,230	9	4	(33)	11,610	0	8
(34)	11,701	17	10¾	(34)	8,946	10	3¾

EXERCISE 12.

A				B			
	£	s.	d.		£	s.	d.
(1)	15,554	5	0	(1)	8,191	15	0
(2)	41,424	5	0	(2)	19,406	18	4
(3)	7,652	7	0	(3)	46,343	14	0
(4)	32,427	2	4¾	(4)	55,651	10	4¾
(5)	71,654	7	10	(5)	32,198	10	6
(6)	742,692	17	1½	(6)	158,412	13	4
(7)	418,716	2	11	(7)	74,277	14	7
(8)	919,943	19	0¾	(8)	322,224	9	0¾
(9)	631,785	0	10	(9)	177,159	5	10
(10)	148,916	7	9	(10)	540,310	12	3
(11)	980,797	7	10¼	(11)	200,060	14	3¼
(12)	437,934	13	10½	(12)	829,301	0	0

EXERCISE 12.—*Continued.*

A				B			
	£	s.	d.		£	s.	d.
(13)	768,428	10	6	(13)	121,841	18	6
(14)	524,212	15	9½	(14)	140,948	5	9½
(15)	291,237	18	5	(15)	99,284	4	8½
(16)	116,890	7	1	(16)	24,297	17	1
(17)	50,972	18	7¾	(17)	72,584	7	1¾
(18)	34,669	1	0	(18)	44,899	17	6
(19)	88,156	3	1	(19)	14,801	16	8
(20)	50,574	12	6	(20)	93,152	5	1½
(21)	362,066	3	6½	(21)	25,319	11	11½
(22)	99,322	2	8½	(22)	317,543	14	11¼
(23)	5,713	9	9	(23)	19,687	2	4¼
(24)	14,256	0	1	(24)	99,101	12	11½
(25)	107,250	9	1½	(25)	10,370	16	3
(26)	2,904,872	6	3½	(26)	54,144	1	2¼
(27)	636,378	3	9	(27)	267,905	9	9
(28)	3,109,914	11	6½	(28)	1,728,218	9	2½
(29)	508,025	6	3½	(29)	475,368	16	7½
(30)	2,560,795	9	5¼	(30)	2,022,313	9	10½
(31)	1,721,635	9	0	(31)	971,279	1	8
(32)	727,304	3	5	(32)	118,365	5	5¼

EXERCISE 13.

A				B			
	£	s.	d.		£	s.	d.
(1)	2,305	12	6	(1)	731	12	0
(2)	6,457	10	0	(2)	838	19	11¼
(3)	6,505	4	2¼	(3)	2,540	8	11½
(4)	1,051	1	0	(4)	6,044	11	2
(5)	1,958	4	1½	(5)	4,626	3	5¼
(6)	4,083	9	1½	(6)	7,783	7	2
(7)	311	13	0	(7)	252	8	6
(8)	415	8	6	(8)	126	9	0
(9)	249	18	6	(9)	400	7	5
(10)	168	14	6	(10)	3,906	10	0
(11)	370	14	0	(11)	6,520	9	3
(12)	1,099	7	3	(12)	6,792	16	8½
(13)	9,510	7	10½	(13)	7,896	6	1½
(14)	7,336	17	1½	(14)	10,263	8	3

EXERCISE 14.

A			B		
£	s.	d.	£	s.	d.
(1)	768	3 4	(1)	361	8 1½
(2)	17,114	11 10½	(2)	2,495	17 9
(3)	19,554	6 3	(3)	184	2 6½
(4)	1,941	6 8	(4)	3,576	6 9¾
(5)	6,169	3 5¼	(5)	22,669	11 4¾
(6)	3,971	18 5¼	(6)	326,378	13 11¼
(7)	18,399	1 3	(7)	24,236	0 0
(8)	11,984	7 6	(8)	196	8 6
(9)	1,366	11 8	(9)	1,393	1 8

EXERCISE 15.

A			B		
£	s.	d.	£	s.	d.
(1)	25	3 9	(7)	19	19 0
(2)	153	0 0	(8)	80	2 10
(3)	33	3 7¾	(9)	20	14 9½
(4)	17	16 11¾	(10)	8	18 8
(5)	14	3 5	(11)	2	15 4
(6)	6	6 0¼	(12)	24	14 0
(13) £132 19s. 0¼d.			(13) £21 0s. 6½d.		

COMPOUND PRACTICE.

EXERCISE 16.

A			B		
£	s.	d.	£	s.	d.
(1)	19	18 1½	(1)	15	18 3
(2)	218	18 9	(2)	13	4 0¾
(3)	599	12 7¼	(3)	668	19 0
(4)	19	4 3¼	(4)	32	19 0
(5)	64	8 3¾	(5)	49	17 6½
(6)	59	7 10¾	(6)	1	9 11½
(7)	183	13 11¼	(7)	11	9 4½
(8)	15	13 0¼	(8)	1,363	10 10
(9)	2,237	18 3	(9)	3	0 2½
(10)	158	5 7¼	(10)	9	18 11
(11)	26	19 11¾	(11)	13	10 6¾
(12)	1,336	0 9¾	(12)	126	19 7
(13)	1,908	1 6¼	(13)	593	14 11¾
(14)	292	16 6	(14)	12	18 2
(15)	18	3 4¼	(15)	184	6 0½
(16)	770	8 3¾	(16)	5,325	14 5½
(17)	375	15 7½	(17)	0	3 10¾

EXERCISE 17.

A						B									
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.				
(1)	41	15	3 $\frac{1}{2}$	(9)	8	12	8	(1)	33	14	9 $\frac{1}{2}$	(9)	18	11	6 $\frac{1}{2}$
(2)	6	0	1	(10)	10	17	5 $\frac{1}{2}$	(2)	13	0	8 $\frac{1}{2}$	(10)	13	4	8 $\frac{1}{2}$
(3)	6	6	1	(11)	8	2	7 $\frac{1}{2}$	(3)	16	0	8 $\frac{1}{2}$	(11)	8	12	2 $\frac{1}{2}$
(4)	0	14	10	(12)	0	9	8 $\frac{1}{2}$	(4)	1	10	4 $\frac{1}{2}$	(12)	0	16	11 $\frac{1}{2}$
(5)	18	16	0	(13)	36	6	5 $\frac{1}{2}$	(5)	1	6	10	(13)	33	9	4 $\frac{1}{2}$
(6)	81	9	4	(14)	23	16	7 $\frac{1}{2}$	(6)	329	4	8	(14)	15	4	7
(7)	2	0	8	(15)	17	15	7	(7)	4	6	4 $\frac{1}{2}$	(15)	15	9	11 $\frac{1}{2}$
(8)	1	1	11 $\frac{1}{2}$	(16)	0	6	9 $\frac{1}{2}$	(8)	0	16	9 $\frac{1}{2}$	(16)	3	15	0 $\frac{1}{2}$
(17) £0 4s. 6 $\frac{1}{2}$ d.						(17) £0 3s. 4 $\frac{1}{2}$ d.									

EXERCISE 18.

A			B				
£	s.	d.	£	s.	d.		
(1)	158	16	7	(1)	464	19	7 $\frac{1}{2}$
(2)	276	11	6	(2)	111	8	10 $\frac{1}{2}$
(3)	29	17	3	(3)	15	12	5 $\frac{1}{2}$
(4)	162	11	6 $\frac{1}{2}$	(4)	3,456	2	8
(5)	183	15	0	(5)	13	5	7 $\frac{1}{2}$
(6)	110	13	5	(6)	53	7	3 $\frac{1}{2}$
(7)	22	9	3 $\frac{1}{2}$	(7)	227	6	1
(8)	283	10	0	(8)	3,198	8	7 $\frac{1}{2}$
(9)	31	14	6	(9)	34	14	9
(10)	64	14	2	(10)	63	1	3
(11)	68	12	8 $\frac{1}{2}$	(11)	61	5	7
(12)	64	19	4	(12)	71	19	4
(13)	6	17	8 $\frac{1}{2}$	(13)	10	17	10
(14)	132	2	1 $\frac{1}{2}$	(14)	65	15	10 $\frac{1}{2}$
(15)	8,334	12	11 $\frac{1}{4}$	(15)	477	5	0 $\frac{1}{2}$
(16)	96	19	2	(16)	110	16	9 $\frac{1}{2}$

EXERCISE 19.

A			B				
£	s.	d.	£	s.	d.		
(1)	430	2	6	(1)	773	7	6
(2)	903	3	9	(2)	1,071	5	0
(3)	224	8	9	(3)	1,329	11	3
(4)	7	0	3 $\frac{1}{2}$	(4)	140	5	8 $\frac{1}{2}$
(5)	268	15	7 $\frac{1}{2}$	(5)	183	19	0
(6)	64	4	10	(6)	223	1	7 $\frac{1}{2}$

EXERCISE 19.—*Continued.*

A				B			
	£	s.	d.		£	s.	d.
(7)	2,979	3	4	(7)	2,045	0	11
(8)	213	6	0	(8)	117	1	0 $\frac{3}{4}$
(9)	54	0	7	(9)	1,154	16	4
(10)	357	5	0 $\frac{1}{2}$	(10)	2,335	10	5
(11)	42	7	10 $\frac{3}{4}$	(11)	403	15	8 $\frac{1}{2}$
(12)	87	17	10	(12)	340	19	0
(13)	368	0	7 $\frac{1}{2}$	(13)	2,955	18	10 $\frac{1}{2}$
(14)	31	14	3 $\frac{1}{2}$	(14)	84	1	1 $\frac{1}{2}$
(15)	89	6	10 $\frac{1}{4}$	(15)	355	4	9 $\frac{1}{4}$
(16)	18	13	11 $\frac{1}{2}$	(16)	6	12	1 $\frac{3}{4}$
(17)	14	18	9 $\frac{1}{2}$	(17)	13	11	4 $\frac{1}{4}$

MISCELLANEOUS EXERCISES.

EXERCISE 20.

A		B	
(1)	£6 6s. 0d.	(1)	£3 5s. 9 $\frac{2}{3}$ d.
(2)	£5 5s. 0d.	(2)	£2 4s. 10 $\frac{1}{2}$ d.
(3)	£2 15s. 10 $\frac{1}{2}$ d.	(3)	£41 9s. 0 $\frac{3}{4}$ d.
(4)	£38 6s. 6 $\frac{3}{4}$ d.	(4)	£32,625 8s. 7 $\frac{1}{2}$ d.
(5)	£186 14s. 6d.	(5)	£4 12s. 1 $\frac{1}{4}$ d.
(6)	£1,144 16s. 5 $\frac{1}{4}$ d.	(6)	£305 0s. 0d.
(7)	£536 11s. 3d.	(7)	£58 14s. 0d.
(8)	3,286 qrs. 3 bush 1 pk.	(8)	1,458 bush.

BILLS OF PARCELS.

EXERCISE 21.

A				B			
(1)	£	s.	d.	(1)	£	s.	d.
	2	9			1	8	
	9	7 $\frac{1}{2}$			5	3	
	11	8			13	0	
	6	4 $\frac{1}{2}$			5	3	
	£1 10 5				£1 5 2		
	£1 10 5				£1 5 2		

EXERCISE 21.—*Continued.*

(2)	A		
	£	s.	d.
	11	0	
	6	6	
	2	8	
	4	1½	

£1	4	3½
----	---	----

(3)	A		
	£	s.	d.
	6	8	
	3	6	
	3	9½	
	1	0	

14	11½
----	-----

(2)	B		
	£	s.	d.
			10
	10	8	
	3	4	
	5	3	

£1	0	1
----	---	---

(3)	B		
	£	s.	d.
			9 6
			2 10
			1 6
			3 8

17	6
----	---

EXERCISE 22.

(1)	A		
	£	s.	d.
	17	5	
	13	6½	
	11	8	
	9	3	

£2	11	10½
----	----	-----

(2)	A		
	£	s.	d.
	15	4	
	19	2	
	1	1 4	
	12	9	

£3	8	7
----	---	---

(3)	A		
	£	s.	d.
	10	0	
	2	0¾	
	7	7	
	2	9¼	
		9	
	2	9	

£1	5	11
----	---	----

(1)	B		
	£	s.	d.
	1	3	3½
	1	0	0
		6	2¼
		2	9¾

£2	12	3½
----	----	----

(2)	B		
	£	s.	d.
	1	15	0
		10	6
		14	4½
		11	3

£3	11	1½
----	----	----

(3)	B		
	£	s.	d.
	2	10½	
	3	11¼	
	2	1	
	6	6	
	2	6	

17	10¾
----	-----

EXERCISE 22.—*Continued.*

(4)	A		
	£	s.	d.
		7	2½
		8	9
		4	4½
		12	8½
		6	5½
	£1	19	5½

(4)	B		
	£	s.	d.
		5	6
		7	3
		14	7½
		6	6
		10	1½
	£2	4	0

EXERCISE 23.

(1)	A		
	£	s.	d.
		1	1 0
			9 4½
		11	18 0
			11 3¾
		12	7½
	£14	12	3¾

(1)	B		
	£	s.	d.
		11	13 9
			18 0 0
			4 8 0
	£34	1	9

(2)	A		
	£	s.	d.
		18	6
		2	12 0
		26	10 6½
		5	12 3½
		3	4
	£35	16	8

(2)	B		
	£	s.	d.
			9
			5½
		3	5½
			10½
		5	6

(3)	A		
	£	s.	d.
		4	11 8
			2 1½
		3	0 5
		1	10 0
		18	8
	£10	2	10½

(3)	B		
	£	s.	d.
		4	3¾
			5 0
		2	7 3
		3	1½
	£2	19	8½

EXERCISE 23.—Continued.

		A		
(4)	£	s.	d.	
		6	3	
	2	6	9	
	14	17	0	
	1	16	0	
		4	2	
<hr/>				
	£19	10	2	
<hr/>				

		A		
(5)	£	s.	d.	
		3	0 $\frac{1}{2}$	
		9	8 $\frac{1}{2}$	
		7	6	
		8	8 $\frac{1}{2}$	
<hr/>				
	£1	8	11 $\frac{1}{2}$	
<hr/>				

Change £3 11 0 $\frac{1}{2}$

		B		
(4)	£	s.	d.	
	13	2	6	
	3	3	0	
		8	0	
	1	13	0	
		12	6	
<hr/>				
	£18	19	0	
<hr/>				

		B		
(5)	£	s.	d.	
	10	8	4	
	3	12	0	
		1	10 $\frac{1}{2}$	
		15	9	
<hr/>				
	£14	17	11 $\frac{1}{2}$	
<hr/>				

EXERCISE 24.

		A		
(1)	£	s.	d.	
		17	4	
		9	6	
	1	3	7 $\frac{1}{2}$	
		8	0 $\frac{1}{2}$	
		2	9 $\frac{1}{2}$	
	3	7	7	
		5	4	
<hr/>				
	£6	14	2	
<hr/>				

		A		
(2)	£	s.	d.	
	8	4	0	
	0	12	5 $\frac{1}{2}$	
	2	15	0	
	0	6	9	
<hr/>				
	£11	18	2 $\frac{1}{2}$	
<hr/>				

		B		
(1)	£	s.	d.	
	1	10	7 $\frac{1}{2}$	
		9	4	
		11	10 $\frac{1}{2}$	
	11	0	6	
<hr/>				
	£13	12	4	
<hr/>				

		B		
(2)	£	s.	d.	
	1	5	10	
	12	10	0	
	78	2	6	
		2	13	4
<hr/>				
	£94	11	8	
<hr/>				

EXERCISE 24.—*Continued.*

A		
£	s.	d.
3	1	0
	17	10½
5	2	0
1	18	6
£10 19 4½		

£	s.	d.
0	2	3½
2	7	3
9	9	0
£11 18 6½		

£	s.	d.
0	8	6
6	13	10½
12	8	0¾
2	4	6
£21 14 11¼		

B		
£	s.	d.
0	4	8½
25	0	0
2	17	6
£28 2 2½		

£	s.	d.
0	15	2
3	6	8
2	5	0
87	10	0
£93 16 10		

£	s.	d.
2	3	10½
1	2	6
0	4	7½
16	8	1½
1	8	0
£21 7 1½		

EXERCISE 25.

A		
£	s.	d.
3	4	7
22	19	7
2	2	0
15	0	0½
£43 6 2½		

£	s.	d.
43	15	0
1	18	0
1	6	11¾
3	15	0
£50 14 11¾		

B		
£	s.	d.
2	4	7½
7	2	6
16	0	3
£25 7 4½		

£	s.	d.
0	18	9
0	18	9
9	11	8
54	7	6
£65 16 8		

EXERCISE 25.—*Continued.*

	A		B	
(3)	£ s. d. 30 10 0 3 8 9 2 10 9 6 14 4½ <hr/> £43 3 10½		£ s. d. 53 11 0 2 18 4 9 12 0 23 12 6 <hr/> £89 13 10	(3)
(4)	£ s. d. 156 3 9 56 0 0 78 15 0 33 13 4¼ <hr/> £324 12 1¼		£ s. d. 4 19 11 3 2 6 12 10 0 9 17 0½ <hr/> £30 9 5½	(4)
(5)	£ s. d. 3 12 0 6 15 0 3 14 10½ <hr/> £14 1 10½		£ s. d. 2 14 7½ 1 16 1½ 0 16 10¼ 1 10 0¾ 0 11 11¾ <hr/> £7 9 7¾	(5)

EXERCISE 26.

	A		B	
(1)	£ s. d. 4 14 0¾ 0 8 1½ 0 18 5¼ 0 3 9 <hr/> £6 4 4½		£ s. d. 27 3 9 3 6 11¼ 33 16 0 <hr/> £64 6 8¼	(1)

EXERCISE 26. - *Continued.*

		A				
(2)	£	s.	d.			
	6	6	6			
	6	7	5½			
	3	2	0			
	0	18	4			
<hr/>						
	16	14	3½			
	11	17	8½			
<hr/>						
	£4	16	7½	Amount of error.		

(3)	£	s.	d.
	6	2	6
	1	7	6
	0	8	1¾
<hr/>			
	£7	18	1¾

(4) £29 5s. 2¾d. left.

(5)	£	s.	d.
	414	11	11¾
	571	11	1
	112	0	1¾
	274	4	6
	244	3	1½
<hr/>			
	£1,616	10	10

		B			
(2)	£	s.	d.		
	184	5	0		
	79	13	0		
	8	7	0¾		
<hr/>					
	£272	5	0¾		

(3)	£	s.	d.
	0	5	0
	2	1	8
	1	17	9½
	1	11	6
<hr/>			
	£5	15	11½

(4)	£	s.	d.
	85	14	6
	500	0	0
	195	0	0
<hr/>			
	£780	14	6

(5)	£	s.	d.
	12	17	4½
	7	8	5
	6	16	4½
	3	3	11
	32	3	7½
<hr/>			
	£62	9	8½

EXERCISE 27.

		A					
(1)	£	s.	d.	(7)	£	s.	d.
	1	10	0		2	17	0
	2	3	4		26	5	8
	1	4	4½		234	10	0
	0	4	4		0	0	5
	0	12	9		2	16	10¼
	11	0	6		0	1	3
	(13) £0 0s. 5½d.						

		B					
(1)	£	s.	d.	(7)	£	s.	d.
	1	5	4		1	10	0
	8	3	5		0	1	4¾
	2	6	9		1	13	4
	8	12	6		0	0	0¾
	6	10	6		1	10	0
	24	15	0		0	1	2¼
	(13) £0 1s. 6d.						

EXERCISE 28.

A	B
(1) £0 1s. 8d.	(1) £0 3s. 4d.
(2) £0 0s. 6d.	(2) £0 6s. 0d.
(3) £0 4s. 0d.	(3) £0 1s. 9d.
(4) £0 4s. 0d.	(4) £36 0s. 0d.
(5) £0 8s. 4d.	(5) £5 5s. 0d.
(6) £24 0s. 0d.	(6) £5 5s. 0d.
(7) £4 10s. 0d.	(7) £7 18s. 0 $\frac{1}{4}$ d.
(8) £2 8s. 0d.	(8) £0 12s. 9d.
(9) £25 4s. 0d.	(9) £0 2s. 3d.
(10) £11 1s. 4 $\frac{1}{2}$ d.	(10) £0 4s. 0d.
(11) £9 3s. 0d.	(11) 1 $\frac{1}{2}$ acres.
(12) £0 12s. 9d.	(12) 48 lbs.
(13) £3 18s. 9d.	(13) £0 3s. 4d.
(14) £26 0s. 0d.	(14) £8 6s. 3d.
(15) £3 15s. 0d.	(15) £31 19s. 0d.

EXERCISE 29.

A	B
(1) 20,160 lbs.	(1) £0 0s. 3d.
(2) 30 pairs.	(2) £4 14s. 6d.
(3) £7 4s. 0d.	(3) 240 pairs.
(4) £798 0s. 0d.	(4) £1,197 0s. 0d.
(5) £1 10s. 4d.	(5) £1 9s. 9 $\frac{1}{2}$ d.
(6) £0 13s. 6d.	(6) 809 miles.
(7) 66 miles.	(7) £7 11s. 5d.
(8) £3 3s. 2 $\frac{1}{2}$ d.	(8) 19 $\frac{3}{4}$ stones.
(9) 76 $\frac{1}{2}$ acres.	(9) £46 11s. 0d.

EXERCISE 30.

A	B
(1) 141 acres.	(1) £0 14s. 3d.
(2) £0 3s. 5d.	(2) 75 workmen.
(3) £11 8s. 11d.	(3) 10 men.
(4) £0 6s. 0d.	(4) £2,620 0s. 0d.
(5) 6 gallons.	(5) 374 miles.
(6) £33 5s. 10d.	(6) 11 acs. 3 rds, 20 pls.
(7) £2 16s. 0d.	(7) 13 $\frac{1}{2}$ yds.
(8) £0 0s. 10d.	(8) £1 18s. 3d.
(9) £82 10s. 0d.	(9) £198 16s. 0d.

EXERCISE 31.

A

- (1) 4 tons 17 cwt. 1 qr. 12 lbs.
- (2) £0 2s. 8d.
- (3) 93 yards.
- (4) £2 15s. 3d.
- (5) £4 1s. 0d.
- (6) £28 17s. 6d.
- (7) £2 0s. 0½d.
- (8) £4 10s. 3d.
- (9) £1 2s. 11½d.
- (10) £314 0s. 0d.

B

- (1) £47 5s. 0d.
- (2) 13 yards.
- (3) £1 2s. 8d.
- (4) £4 6s. 2d.
- (5) £0 5s. 6½d.
- (6) 72 days.
- (7) £3 10s.
- (8) £6 9s. 6d.
- (9) 36 shares.
- (10) 5 cwt. 1 qr. 12 lbs.

EXERCISE 32.

A

- (1) £136 5s. 4d.
- (2) 6 yds. 3½ qrs.
- (3) 35 tons 10 cwt.
- (4) £25 10s. 10½d.
- (5) £5 3s. 1½d.
- (6) £9 14s. 7¾d.
- (7) £2 0s. 0d.
- (8) 4 tons.
- (9) 1½ days, or 1 dy. 8 hrs.

B

- (1) £42 0s. 0d.
- (2) 22 tons 10 cwt.
- (3) 1 yr. 11 wks 3 dys.
- (4) £17 10s. 4½d.
- (5) £610 0s. 0d.
- (6) 210 miles.
- (7) £1 12s. 8d.
- (8) 3 yards.
- (9) 7 qrs. 4 bush.

EXERCISE 33.

A

- (1) 16 weeks.
- (2) 1 qr. 26 lbs.
- (3) £0 10s. 3d.
- (4) £6 3s. 9d.
- (5) £9 15s. 0d.
- (6) 13½ days.
- (7) £10 0s. 0d.
- (8) £26 14s. 9d.
- (9) £1 13s. 8½d.

B

- (1) 3¾ dozens.
- (2) 15 weeks.
- (3) 21 yards.
- (4) 203 lbs.
- (5) £3 0s. 0d.
- (6) £741 13s. 10½d.
- (7) £37 2s. 0d.
- (8) £11 17s. 6d.
- (9) £34 14s. 2d.

EXERCISE 34.

- | | | |
|------------------|--|------------------|
| A | | B |
| (1) £3 0s 4½d. | | (1) £4 16s. 0d. |
| (2) 7½ bushels. | | (2) £34 2s. 6d. |
| (3) 16½ days. | | (3) 24½ days. |
| (4) 150 men. | | (4) 9 months. |
| (5) 468 acres. | | (5) 1 yard. |
| (6) 21½ days. | | (6) 12s. 0d. |
| (7) £9 19s. 2¾d. | | (7) £29 14s. 2d. |

EXERCISE 35.

- | | | |
|----------------------------|--|---------------------------|
| A | | B |
| (1) £9 13s. 4d. | | (1) £46 18s. 6d. |
| (2) 12 acs. 3 rds. 35 pls. | | (2) 16 sq. yds. 6 sq. ft. |
| (3) 10 months. | | (3) 20 men additional. |
| (4) 6 weeks. | | (4) 40 days. |
| (5) 300 men. | | (5) 40 men. |
| (6) £67 7s. 6d. | | (6) 1s. 4½d. |
| (7) 48 yards. | | (7) 120 yards. |

GREATEST COMMON MEASURE.

EXERCISE 36.

- | | | |
|----------|----------|----------|
| A | | B |
| (1) 22 | (17) 25 | (1) 27 |
| (2) 11 | (18) 29 | (2) 18 |
| (3) 7 | (19) 33 | (3) 21 |
| (4) 9 | (20) 64 | (4) 19 |
| (5) 8 | (21) 53 | (5) 1 |
| (6) 7 | (22) 44 | (6) 9 |
| (7) 18 | (23) 35 | (7) 6 |
| (8) 12 | (24) 23 | (8) 31 |
| (9) 12 | (25) 12 | (9) 8 |
| (10) 12 | (26) 16 | (10) 10 |
| (11) 5 | (27) 18 | (11) 9 |
| (12) 7 | (28) 46 | (12) 10 |
| (13) 3 | (29) 39 | (13) 13 |
| (14) 4 | (30) 62 | (14) 4 |
| (15) 5 | (31) 191 | (15) 1 |
| (16) 24 | (32) 4 | (16) 51 |
| | | (17) 35 |
| | | (18) 29 |
| | | (19) 36 |
| | | (20) 56 |
| | | (21) 15 |
| | | (22) 24 |
| | | (23) 25 |
| | | (24) 14 |
| | | (25) 13 |
| | | (26) 17 |
| | | (27) 6 |
| | | (28) 9 |
| | | (29) 12 |
| | | (30) 16 |
| | | (31) 73 |
| | | (32) 113 |

EXERCISE 36.—Continued.

A		B	
(33) 12	(38) 57	(33) 143	(38) 561
(34) 59	(39) 9	(34) 377	(39) 3
(35) 3	(40) 3	(35) 8	(40) 11
(36) 98	(41) 7	(36) 37	(41) 19
(37) 89	(42) 23	(37) 1	(42) 3

EXERCISE 37.

A	B
(1) $\frac{1}{2}, \frac{1}{2}, \frac{1}{2}$.	(1) $\frac{2}{3}, \frac{1}{2}, \frac{2}{3}$.
(2) $\frac{1}{2}, \frac{2}{3}, \frac{1}{2}$.	(2) $\frac{2}{3}, \frac{1}{2}, \frac{1}{2}$.
(3) $\frac{2}{3}, \frac{2}{3}, \frac{2}{3}$.	(3) $\frac{1}{2}, \frac{1}{2}, \frac{1}{3}$.
(4) $\frac{2}{3}, \frac{2}{3}, \frac{1}{2}$.	(4) $\frac{1}{3}, \frac{1}{3}, \frac{2}{3}$.
(5) $\frac{2}{3}, \frac{2}{3}, \frac{2}{3}$.	(5) $\frac{1}{2}, \frac{1}{3}, \frac{1}{3}$.
(6) $\frac{2}{3}, \frac{2}{3}, \frac{2}{3}$.	(6) $\frac{1}{3}, \frac{2}{7}, \frac{1}{3}$.
(7) $\frac{1}{3}, \frac{1}{3}, \frac{2}{3}$.	(7) $\frac{1}{4}, \frac{1}{3}, \frac{2}{7}$.
(8) $\frac{1}{3}, \frac{2}{7}, \frac{1}{2}$.	(8) $\frac{1}{2}, \frac{17}{26}, \frac{1}{2}$.
(9) $\frac{2}{3}, \frac{2}{3}, \frac{2}{3}$.	(9) $\frac{1}{2}, \frac{1}{3}, \frac{2}{7}$.
(10) $\frac{7}{18}, \frac{2}{11}, \frac{1}{3}$.	(10) $\frac{2}{3}, \frac{4}{5}, \frac{118}{355}$.
(11) $\frac{13}{23}, \frac{21}{100}, \frac{2}{3}$.	(11) $\frac{38}{51}, \frac{9}{11}, \frac{131}{158}$.
(12) $\frac{49}{88}, \frac{9}{11}, \frac{2}{3}$.	(12) $\frac{91}{78}, \frac{411}{500}, \frac{76}{116}$.
(13) $\frac{25}{4}, \frac{27}{8}$.	(13) $\frac{2}{4}, \frac{26}{6}$.
(14) $\frac{22}{8}, \frac{102}{8}$.	(14) $\frac{72}{7}, \frac{41}{6}$.
(15) $\frac{102}{10}, \frac{107}{10}$.	(15) $\frac{199}{11}, \frac{253}{12}$.
(16) $\frac{229}{18}, \frac{222}{14}$.	(16) $\frac{62}{6}, \frac{252}{13}$.
(17) $\frac{226}{28}, \frac{251}{28}$.	(17) $\frac{210}{11}, \frac{127}{10}$.
(18) $\frac{1145}{32}, \frac{1786}{47}$.	(18) $\frac{696}{31}, \frac{1561}{30}$.
(19) $\frac{21}{8}, \frac{253}{12}$.	(19) $\frac{1327}{21}, \frac{242}{12}$.
(20) $\frac{256}{49}, \frac{1337}{47}$.	(20) $\frac{208}{11}, \frac{1902}{37}$.
(21) $\frac{1012}{19}, \frac{1001}{19}$.	(21) $\frac{1511}{20}, \frac{1321}{21}$.
(22) $\frac{541}{22}, \frac{6811}{84}$.	(22) $\frac{567}{28}, \frac{7691}{78}$.
(23) $\frac{2597}{88}, \frac{5325}{88}$.	(23) $\frac{2855}{38}, \frac{6152}{97}$.
(24) $\frac{2562}{88}, \frac{2542}{88}$.	(24) $\frac{4115}{48}, \frac{2012}{27}$.
(25) $1\frac{1}{2}, 1\frac{1}{3}, 1\frac{1}{6}$.	(25) 3, $4\frac{1}{2}$, $3\frac{2}{3}$.
(26) $1\frac{1}{4}, 1\frac{1}{8}, 1\frac{1}{7}$.	(26) $2\frac{1}{8}$, 3, $2\frac{3}{4}$.
(27) $1\frac{2}{3}, 2\frac{1}{2}, 1\frac{5}{6}$.	(27) $5\frac{1}{3}$, $3\frac{2}{3}$, $1\frac{2}{7}$.
(28) $1\frac{5}{8}, 1\frac{5}{8}, 3\frac{1}{7}$.	(28) $1\frac{1}{17}$, $1\frac{2}{3}$, 2.
(29) $8\frac{2}{3}, 4\frac{5}{8}, 4\frac{1}{8}$.	(29) $6\frac{2}{7}$, $4\frac{5}{14}$, $1\frac{1}{2}$.
(30) $3\frac{9}{10}, 1\frac{7}{11}, 2\frac{3}{15}$.	(30) $2\frac{2}{3}$, $6\frac{2}{10}$, $5\frac{1}{2}$.

EXERCISE 37.—*Continued.*

A

- (31) $2\frac{7}{25}$, $2\frac{3}{25}$, $5\frac{9}{16}$.
 (32) $6\frac{7}{5}$, $3\frac{1}{8}$, $1\frac{3}{5}$.
 (33) $12\frac{3}{11}$, $8\frac{2}{7}$, $11\frac{5}{11}$.
 (34) 22 , $14\frac{3}{8}$, $10\frac{3}{4}$.
 (35) $53\frac{3}{10}$, $6\frac{2}{3}$, $8\frac{1}{4}$.
 (36) $12\frac{7}{8}$, $25\frac{4}{10}$, $32\frac{5}{8}$.

B

- (31) $6\frac{1}{8}$, $4\frac{7}{10}$, $7\frac{1}{8}$.
 (32) $6\frac{1}{2}$, $23\frac{3}{11}$, $21\frac{1}{2}$.
 (33) $6\frac{3}{7}$, $37\frac{2}{3}$, $28\frac{3}{4}$.
 (34) $452\frac{3}{8}$, $30\frac{3}{10}$, $57\frac{3}{8}$.
 (35) $33\frac{5}{9}$, 20 , $24\frac{3}{5}$.
 (36) $243\frac{3}{8}$, $182\frac{1}{4}$, $26\frac{7}{8}$.

LEAST COMMON MULTIPLE.

EXERCISE 38.

A

- (1) 12.
 (2) 21.
 (3) 12.
 (4) 168.
 (5) 504.
 (6) 120.
 (7) 105.
 (8) 180.
 (9) 120.
 (10) 420.
 (11) 1,848.
 (12) 88,179.
 (13) 1,260.
 (14) 8,736.
 (15) 420.
 (16) 192.
 (17) 3,822.
 (18) 294.
 (19) 180.
 (20) 10,584.
 (21) 65,520.
 (22) $\frac{3}{8}$, $\frac{4}{8}$.
 (23) $\frac{4}{10}$, $\frac{5}{10}$.
 (24) $\frac{3}{8}$, $\frac{6}{8}$.
 (25) $\frac{15}{21}$, $\frac{9}{21}$, $\frac{14}{21}$.
 (26) $\frac{8}{10}$, $\frac{8}{10}$, $\frac{7}{10}$.
 (27) $\frac{3}{4}$, $\frac{3}{4}$, $\frac{3}{4}$.

B

- (1) 12.
 (2) 10.
 (3) 36.
 (4) 24.
 (5) 24.
 (6) 72.
 (7) 140.
 (8) 52,250.
 (9) 12,509,802.
 (10) 3,168.
 (11) 25,245.
 (12) 222,912.
 (13) 179,280.
 (14) 504.
 (15) 420.
 (16) 1,080.
 (17) 684.
 (18) 5,040.
 (19) 8,736.
 (20) 1,568,160.
 (21) 90,720.
 (22) $\frac{4}{12}$, $\frac{6}{12}$.
 (23) $\frac{2}{4}$, $\frac{3}{4}$.
 (24) $\frac{3}{20}$, $\frac{15}{20}$.
 (25) $\frac{8}{10}$, $\frac{5}{10}$, $\frac{3}{10}$.
 (26) $\frac{7}{12}$, $\frac{9}{12}$, $\frac{3}{12}$.
 (27) $\frac{8}{20}$, $\frac{21}{20}$, $\frac{6}{20}$.

EXERCISE 38.—Continued.

A

- (28) $\frac{3}{50}, \frac{10}{50}, \frac{18}{50}$.
 (29) $\frac{60}{90}, \frac{30}{90}, \frac{36}{90}, \frac{63}{90}$.
 (30) $\frac{54}{84}, \frac{9}{84}, \frac{56}{84}, \frac{42}{84}$.
 (31) $\frac{36}{63}, \frac{14}{63}, \frac{9}{63}, \frac{48}{63}$.
 (32) $\frac{96}{120}, \frac{15}{120}, \frac{80}{120}, \frac{80}{120}$.
 (33) $\frac{252}{280}, \frac{70}{280}, \frac{80}{280}, \frac{105}{280}$.
 (34) $\frac{80}{130}, \frac{45}{130}, \frac{60}{130}, \frac{108}{130}$.
 (35) $\frac{288}{504}, \frac{315}{504}, \frac{432}{504}, \frac{504}{504}$.
 (36) $\frac{441}{630}, \frac{252}{630}, \frac{560}{630}, \frac{120}{630}, \frac{180}{630}$.
 (37) $\frac{1080}{1260}, \frac{504}{1260}, \frac{945}{1260}, \frac{1134}{1260}, \frac{1120}{1260}$.
 (38) $\frac{210}{420}, \frac{70}{420}, \frac{180}{420}, \frac{360}{420}, \frac{336}{420}$.
 (39) $\frac{2016}{2520}, \frac{560}{2520}, \frac{945}{2520}, \frac{360}{2520}, \frac{1512}{2520}$.
 (40) $\frac{504}{2520}, \frac{720}{2520}, \frac{945}{2520}, \frac{2240}{2520}, \frac{2520}{2520}$.
 (41) $\frac{60}{210}, \frac{63}{210}, \frac{42}{210}, \frac{70}{210}, \frac{168}{210}$.
 (42) $\frac{108}{252}, \frac{126}{252}, \frac{224}{252}, \frac{140}{252}, \frac{216}{252}$.

B

- (28) $\frac{3}{8}, \frac{6}{8}, \frac{8}{8}$.
 (29) $\frac{24}{36}, \frac{9}{36}, \frac{18}{36}, \frac{18}{36}$.
 (30) $\frac{14}{63}, \frac{54}{63}, \frac{9}{63}, \frac{56}{63}$.
 (31) $\frac{564}{504}, \frac{144}{504}, \frac{180}{504}, \frac{288}{504}$.
 (32) $\frac{20}{45}, \frac{18}{45}, \frac{30}{45}, \frac{15}{45}$.
 (33) $\frac{126}{315}, \frac{270}{315}, \frac{35}{315}, \frac{252}{315}$.
 (34) $\frac{144}{168}, \frac{21}{168}, \frac{126}{168}, \frac{140}{168}$.
 (35) $\frac{360}{504}, \frac{380}{504}, \frac{252}{504}, \frac{216}{504}$.
 (36) $\frac{360}{630}, \frac{63}{630}, \frac{140}{630}, \frac{378}{630}, \frac{540}{630}$.
 (37) $\frac{30}{60}, \frac{54}{60}, \frac{15}{60}, \frac{50}{60}, \frac{48}{60}$.
 (38) $\frac{252}{280}, \frac{240}{280}, \frac{224}{280}, \frac{70}{280}, \frac{200}{280}$.
 (39) $\frac{1800}{2520}, \frac{1440}{2520}, \frac{315}{2520}, \frac{504}{2520}, \frac{1120}{2520}$.
 (40) $\frac{420}{560}, \frac{490}{560}, \frac{504}{560}, \frac{80}{560}, \frac{210}{560}$.
 (41) $\frac{252}{504}, \frac{252}{504}, \frac{360}{504}, \frac{378}{504}, \frac{56}{504}$.
 (42) $\frac{80}{280}, \frac{70}{280}, \frac{140}{280}, \frac{210}{280}, \frac{112}{280}$.

ADDITION OF PROPER FRACTIONS.

EXERCISE 39.

A

- (1) $\frac{5}{6}$.
 (2) $\frac{9}{20}$.
 (3) $\frac{2}{3}$.
 (4) $\frac{10}{11}$.
 (5) $\frac{35}{42}$.
 (6) $1\frac{1}{12}$.
 (7) $\frac{35}{48}$.
 (8) $\frac{59}{120}$.
 (9) $1\frac{37}{120}$.
 (10) $1\frac{1}{24}$.
 (11) $1\frac{5}{12}$.
 (12) $\frac{201}{280}$.
 (13) $\frac{1}{6}$.
 (14) $1\frac{3}{20}$.
 (15) $\frac{13}{24}$.
 (16) $1\frac{1}{2}$.
 (17) $1\frac{103}{504}$.
 (18) $1\frac{47}{56}$.
 (19) $2\frac{187}{504}$.
 (20) $1\frac{1}{3}$.
 (21) $2\frac{1}{2}$.
 (22) $2\frac{37}{36}$.
 (23) $1\frac{1}{2}$.
 (24) $2\frac{429}{280}$.
 (25) $3\frac{25}{504}$.
 (26) $3\frac{82}{56}$.
 (27) $2\frac{19}{10}$.
 (28) $2\frac{11}{21}$.
 (29) $2\frac{2}{3}$.
 (30) $3\frac{1}{6}$.
 (31) $2\frac{22}{35}$.
 (32) $2\frac{8}{45}$.

B

- (1) $\frac{3}{8}$.
 (2) $\frac{7}{12}$.
 (3) $\frac{7}{10}$.
 (4) $\frac{7}{12}$.
 (5) $1\frac{1}{12}$.
 (6) $\frac{17}{12}$.
 (7) $\frac{41}{12}$.
 (8) $\frac{304}{504}$.
 (9) $1\frac{7}{12}$.
 (10) $1\frac{1}{3}$.
 (11) $\frac{201}{280}$.
 (12) $1\frac{13}{36}$.
 (13) $1\frac{1}{15}$.
 (14) $\frac{33}{56}$.
 (15) $1\frac{1}{2}$.
 (16) $1\frac{1}{2}$.
 (17) $1\frac{107}{120}$.
 (18) $2\frac{8}{15}$.
 (19) $2\frac{127}{360}$.
 (20) $1\frac{7}{18}$.
 (21) $1\frac{1081}{1200}$.
 (22) $2\frac{1}{3}$.
 (23) $2\frac{2}{3}$.
 (24) $2\frac{2}{3}$.
 (25) $1\frac{13}{15}$.
 (26) $2\frac{1}{3}$.
 (27) $2\frac{2}{3}$.
 (28) $3\frac{1}{4}$.
 (29) $2\frac{1}{15}$.
 (30) $1\frac{139}{280}$.
 (31) $2\frac{2}{3}$.
 (32) $2\frac{55}{168}$.

SUBTRACTION OF PROPER FRACTIONS.

EXERCISE 40.

A		B	
(1) $\frac{1}{8}$.	(23) $\frac{25}{88}$.	(1) $\frac{5}{8}$.	(23) $\frac{1}{8}$.
(2) $\frac{1}{30}$.	(24) $\frac{13}{88}$.	(2) $\frac{1}{2}$.	(24) $\frac{23}{88}$.
(3) $\frac{7}{12}$.	(25) $\frac{2}{3}$.	(3) $\frac{3}{8}$.	(25) $\frac{31}{112}$.
(4) $\frac{1}{8}$.	(26) $1\frac{2}{15}$.	(4) $\frac{3}{7}$.	(26) $\frac{4}{7}$.
(5) $1\frac{1}{12}$.	(27) $1\frac{1}{12}$.	(5) $\frac{8}{15}$.	(27) $1\frac{1}{8}$.
(6) $1\frac{1}{5}$.	(28) $1\frac{1}{8}$.	(6) $1\frac{1}{8}$.	(28) $\frac{61}{88}$.
(7) $\frac{4}{12}$.	(29) $\frac{29}{88}$.	(7) $\frac{5}{8}$.	(29) $1\frac{3}{8}$.
(8) $1\frac{1}{12}$.	(30) $\frac{5}{7}$.	(8) $1\frac{1}{15}$.	(30) $17\frac{9}{10}$.
(9) $\frac{1}{20}$.	(31) $\frac{1}{84}$.	(9) $\frac{2}{3}$.	(31) $\frac{21}{16}$.
(10) $\frac{1}{88}$.	(32) $1\frac{1}{140}$.	(10) $\frac{4}{7}$.	(32) $1\frac{3}{8}$.
(11) $\frac{1}{12}$.	(33) $\frac{5}{14}$.	(11) $\frac{2}{3}$.	(33) $1\frac{3}{8}$.
(12) $\frac{1}{30}$.	(34) $\frac{23}{45}$.	(12) $\frac{1}{3}$.	(34) $\frac{4}{9}$.
(13) $1\frac{1}{10}$.	(35) $\frac{1}{4}$.	(13) $\frac{7}{90}$.	(35) $\frac{5}{72}$.
(14) $1\frac{1}{10}$.	(36) $\frac{7}{12}$.	(14) $\frac{2}{3}$.	(36) $\frac{23}{28}$.
(15) $1\frac{1}{10}$.	(37) $\frac{9}{40}$.	(15) $\frac{3}{10}$.	(37) $14\frac{1}{10}$.
(16) $1\frac{9}{10}$.	(38) $1\frac{1}{90}$.	(16) $1\frac{1}{18}$.	(38) $\frac{2}{15}$.
(17) $\frac{29}{88}$.	(39) $1\frac{5}{12}$.	(17) $\frac{5}{8}$.	(39) $78\frac{1}{40}$.
(18) $\frac{21}{44}$.	(40) $\frac{59}{90}$.	(18) $1\frac{1}{15}$.	(40) $15\frac{9}{90}$.
(19) $\frac{1}{6}$.	(41) $\frac{67}{72}$.	(19) $1\frac{1}{18}$.	(41) $13\frac{3}{10}$.
(20) $\frac{8}{35}$.	(42) $1\frac{1}{5}$.	(20) $\frac{7}{14}$.	(42) $\frac{557}{880}$.
(21) $1\frac{3}{4}$.	(43) $1\frac{61}{110}$.	(21) $1\frac{1}{12}$.	(43) $1\frac{2}{3}$.
(22) $1\frac{1}{10}$.	(44) $1\frac{85}{120}$.	(22) $\frac{2}{3}$.	(44) $13\frac{2}{15}$.
(45) $1\frac{101}{110}$.		(45) $33\frac{1}{10}$.	

Miscellaneous Exercises in Addition and Subtraction of Vulgar Fractions.

EXERCISE 41.

A		B	
(1) $1\frac{1}{2}$.	(1) $\frac{7}{35}$.		
(2) $\frac{10}{88}$.	(2) $\frac{16}{35}$.		
(3) $2\frac{1}{6}$.	(3) $15\frac{1}{2}$.		
(4) $1\frac{9}{105}$.	(4) $\frac{47}{70}$.		
(5) $\frac{1}{60}$.	(5) $\frac{2}{21}$.		
(6) $\frac{17}{36}$ sum $\frac{1}{36}$ dif.	(6) $1\frac{1}{18}$ sum $\frac{1}{3}$ dif.		
(7) $\frac{22}{315}$.	(7) $1\frac{17}{120}$.		

EXERCISE 41.—*Continued.*

A		B
(8) $\frac{3057}{880}$.		(8) $\frac{49}{8}$.
(9) $\frac{14}{88}$.		(9) $\frac{167}{2520}$.
(10) $\frac{43}{24}$.		(10) $\frac{19}{88}$.
(11) $\frac{1}{2}$.		(11) $1\frac{1}{2}$.
(12) $2\frac{257}{16}$.		(12) $2\frac{1}{8}$.
(13) $1\frac{13}{28}$.		(13) $\frac{193}{80}$.

EXTRA STANDARD WORK.

COMPOUND FRACTIONS.

EXERCISE 42.

A		B	
(1) $\frac{2}{8}$.	(20) $1\frac{1}{14}$.	(1) $\frac{2}{8}$.	(20) $14\frac{1}{8}$.
(2) $\frac{1}{2}$.	(21) $19\frac{2}{3}$.	(2) $\frac{1}{8}$.	(21) $30\frac{1}{4}$.
(3) $\frac{1}{8}$.	(22) $2\frac{2}{3}$.	(3) $\frac{1}{7}$.	(22) $1\frac{1}{3}$.
(4) $\frac{1}{12}$.	(23) $1\frac{2}{3}$.	(4) $\frac{1}{8}$.	(23) $20\frac{5}{8}$.
(5) $\frac{2}{7}$.	(24) $16\frac{4}{7}$.	(5) $\frac{5}{12}$.	(24) $6\frac{9}{10}$.
(6) $\frac{1}{2}$.	(25) $48\frac{1}{3}$.	(6) $\frac{7}{10}$.	(25) $53\frac{5}{8}$.
(7) $\frac{1}{4}$.	(26) $\frac{567}{1620}$.	(7) $\frac{1}{25}$.	(26) $46\frac{133}{200}$.
(8) $\frac{3}{25}$.	(27) $214\frac{5}{7}$.	(8) $\frac{6}{25}$.	(27) $805\frac{2}{3}$.
(9) $\frac{2}{27}$.	(28) $31\frac{2}{3}$.	(9) $\frac{5}{72}$.	(28) $4\frac{1}{140}$.
(10) $\frac{2}{140}$.	(29) $18\frac{19}{25}$.	(10) $\frac{5}{28}$.	(29) $2\frac{1}{2}$.
(11) $\frac{1}{40}$.	(30) $10\frac{1}{5}$.	(11) $\frac{1}{2}$.	(30) $285\frac{2}{5}$.
(12) $\frac{3}{80}$.	(31) $67\frac{1}{4}$.	(12) $\frac{7}{24}$.	(31) $53\frac{2}{3}$.
(13) $\frac{4}{105}$.	(32) $318\frac{51}{8}$.	(13) $\frac{9}{110}$.	(32) $1\frac{1}{8}$.
(14) $\frac{1}{840}$.	(33) $14\frac{7}{10}$.	(14) $\frac{3}{20}$.	(33) $2281\frac{1}{4}$.
(15) $\frac{7}{48}$.	(34) $408\frac{157}{12}$.	(15) $\frac{2}{81}$.	(34) $70\frac{7}{7}$.
(16) $\frac{3}{26}$.	(35) $1,124\frac{1}{2}$.	(16) $\frac{1}{70}$.	(35) $820\frac{39}{140}$.
(17) $\frac{1}{28}$.	(36) $17\frac{1}{4}$.	(17) $\frac{9}{50}$.	(36) $12\frac{141}{300}$.
(18) $\frac{25}{262}$.	(37) $1,949\frac{1}{2}$.	(18) $\frac{32}{2025}$.	(37) $166\frac{1}{4}$.
(19) $\frac{7}{12}$.	(38) $39\frac{699}{1000}$.	(19) $4\frac{4}{7}$.	(38) $286\frac{1}{2}$.
(39) $1,429\frac{113}{240}$.		(39) $302\frac{689}{240}$.	

EXERCISE 43.

A

- | | |
|--|---|
| (1) $10\frac{1}{2}\frac{3}{4}$. | (22) $21\frac{2}{3}\frac{1}{2}$. |
| (2) $43\frac{1}{8}\frac{3}{9}$. | (23) $74\frac{2}{3}\frac{1}{4}$. |
| (3) $54\frac{1}{2}\frac{0}{0}$. | (24) $7\frac{1}{3}\frac{0}{9}$. |
| (4) $72\frac{2}{1}\frac{5}{2}\frac{3}{0}\frac{0}{0}$. | (25) $2\frac{1}{8}$. |
| (5) $81\frac{2}{4}\frac{0}{8}$. | (26) $10\frac{7}{8}$. |
| (6) $77\frac{1}{1}\frac{3}{8}$. | (27) $22\frac{5}{5}\frac{1}{1}$. |
| (7) $88\frac{7}{1}\frac{0}{2}\frac{0}{0}$. | (28) $1\frac{7}{8}$. |
| (8) $128\frac{1}{1}\frac{0}{5}\frac{5}{3}$. | (29) $43\frac{2}{3}\frac{2}{3}\frac{8}{8}$. |
| (9) $316\frac{1}{3}\frac{3}{3}\frac{3}{3}\frac{3}{3}$. | (30) $105\frac{1}{3}\frac{3}{8}$. |
| (10) $336\frac{2}{8}\frac{2}{3}\frac{4}{3}\frac{0}{2}$. | (31) $\frac{3}{8}\frac{1}{0}$. |
| (11) $299\frac{4}{8}\frac{0}{3}$. | (32) $3\frac{3}{2}\frac{0}{0}$. |
| (12) $114\frac{1}{1}\frac{8}{8}\frac{5}{5}$. | (33) $30\frac{1}{3}$. |
| (13) $12\frac{7}{2}\frac{5}{1}\frac{0}{8}$. | (34) $101\frac{1}{4}$. |
| (14) $65\frac{2}{3}\frac{4}{8}\frac{7}{0}$. | (35) $180\frac{2}{3}\frac{5}{8}\frac{0}{0}$. |
| (15) $138\frac{8}{1}\frac{7}{1}\frac{7}{2}$. | (36) $22\frac{4}{3}\frac{0}{0}$. |
| (16) $69\frac{4}{8}\frac{7}{0}$. | (37) $\frac{1}{2}\frac{0}{8}\frac{0}{8}$. |
| (17) $149\frac{2}{2}\frac{3}{7}\frac{0}{0}$. | (38) $1\frac{4}{2}\frac{0}{0}$. |
| (18) $96\frac{1}{4}\frac{1}{5}\frac{5}{5}$. | (39) $\frac{1}{2}\frac{7}{4}$. |
| (19) $4\frac{2}{3}$. | (40) $6\frac{1}{4}$. |
| (20) $3\frac{3}{8}$. | (41) $60\frac{4}{8}\frac{0}{8}\frac{0}{5}$. |
| (21) $81\frac{1}{4}$. | (42) $13\frac{1}{2}\frac{2}{8}$. |

B

- | | |
|--|---|
| (1) $18\frac{1}{8}$. | (22) $\frac{2}{5}$. |
| (2) $27\frac{1}{1}\frac{7}{8}\frac{5}{8}$. | (23) $2\frac{1}{2}\frac{1}{2}$. |
| (3) $44\frac{1}{1}\frac{3}{8}$. | (24) $11\frac{0}{2}\frac{0}{8}$. |
| (4) $23\frac{1}{3}\frac{3}{8}$. | (25) $6\frac{4}{1}\frac{0}{5}$. |
| (5) $83\frac{1}{4}\frac{0}{8}$. | (26) $4\frac{1}{5}$. |
| (6) $40\frac{0}{1}\frac{3}{7}\frac{3}{8}$. | (27) $34\frac{1}{2}\frac{7}{8}$. |
| (7) $22\frac{1}{2}\frac{1}{8}$. | (28) $76\frac{3}{1}\frac{0}{0}$. |
| (8) $34\frac{2}{2}\frac{4}{2}\frac{7}{2}$. | (29) $101\frac{8}{1}\frac{0}{5}$. |
| (9) $61\frac{0}{8}\frac{0}{1}$. | (30) $214\frac{3}{5}\frac{0}{0}$. |
| (10) $79\frac{5}{2}\frac{7}{1}\frac{1}{4}$. | (31) $7\frac{5}{5}\frac{0}{8}$. |
| (11) $54\frac{1}{1}\frac{1}{4}$. | (32) $22\frac{3}{8}\frac{0}{3}$. |
| (12) $19\frac{9}{3}\frac{9}{7}\frac{0}{4}$. | (33) $10\frac{8}{5}\frac{0}{1}$. |
| (13) $191\frac{3}{8}\frac{7}{0}$. | (34) $1\frac{1}{2}\frac{0}{4}$. |
| (14) $58\frac{1}{1}\frac{0}{8}\frac{7}{0}\frac{0}{0}$. | (35) $13\frac{0}{1}\frac{0}{0}$. |
| (15) $14\frac{8}{1}\frac{0}{3}\frac{4}{4}\frac{5}{0}\frac{5}{4}$. | (36) $31\frac{1}{3}\frac{0}{8}$. |
| (16) $32\frac{0}{8}\frac{1}{8}$. | (37) $1\frac{5}{8}$. |
| (17) $28\frac{1}{3}\frac{7}{0}$. | (38) 0 . |
| (18) $21\frac{1}{3}\frac{6}{4}\frac{1}{8}$. | (39) $5\frac{1}{2}$. |
| (19) $3\frac{2}{4}\frac{3}{0}$. | (40) $1\frac{7}{8}\frac{0}{0}$. |
| (20) $6\frac{0}{8}$. | (41) $1\frac{3}{1}\frac{0}{0}\frac{0}{0}$. |
| (21) $13\frac{1}{2}\frac{7}{8}$. | (42) $7\frac{8}{3}\frac{0}{5}$. |

ANSWERS

TO

The Quarterly Arithmetic.

STANDARD VI.

VULGAR FRACTIONS.

GREATEST COMMON MEASURE.

EXERCISE 1.

A			B	
(1) 24	(16) 191		(1) 51	(16) 73
(2) 25	(17) 4		(2) 35	(17) 113
(3) 29	(18) 12		(3) 29	(18) 143
(4) 33	(19) 59		(4) 36	(19) 377
(5) 64	(20) 5		(5) 56	(20) 29
(6) 53	(21) 3		(6) 15	(21) 8
(7) 44	(22) 98		(7) 24	(22) 37
(8) 35	(23) 89		(8) 25	(23) 1
(9) 23	(24) 57		(9) 14	(24) 561
(10) 12	(25) 334		(10) 13	(25) 33
(11) 16	(26) 9		(11) 17	(26) 3
(12) 18	(27) 3		(12) 6	(27) 11
(13) 46	(28) 7		(13) 9	(28) 19
(14) 39	(29) 23		(14) 12	(29) 3
(15) 62	(30) 12		(15) 16	(30) 11

EXERCISE 2.

A		B
(1) $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}$.		(1) $\frac{2}{3}, \frac{1}{2}, \frac{2}{5}$.
(2) $\frac{1}{2}, \frac{2}{3}, \frac{1}{5}$.		(2) $\frac{4}{5}, \frac{1}{2}, \frac{1}{3}$.
(3) $\frac{1}{3}, \frac{2}{5}, \frac{1}{4}$.		(3) $\frac{1}{2}, \frac{1}{3}, \frac{1}{5}$.
(4) $\frac{5}{8}, \frac{2}{4}, \frac{1}{2}$.		(4) $\frac{1}{3}, \frac{1}{2}, \frac{4}{5}$.
(5) $\frac{2}{3}, \frac{3}{5}, \frac{2}{7}$.		(5) $\frac{1}{2}, \frac{1}{3}, \frac{1}{5}$.
(6) $\frac{4}{5}, \frac{1}{3}, \frac{2}{7}$.		(6) $\frac{1}{3}, \frac{2}{7}, \frac{1}{5}$.
(7) $\frac{1}{3}, \frac{1}{4}, \frac{2}{7}$.		(7) $\frac{1}{2}, \frac{1}{3}, \frac{2}{7}$.

EXERCISE 2.—Continued.

A

- (8) $\frac{1}{3}, \frac{2}{7}, \frac{1}{2}$.
 (9) $\frac{2}{5}, \frac{2}{3}, \frac{1}{3}$.
 (10) $\frac{7}{13}, \frac{3}{11}, \frac{1}{5}$.
 (11) $\frac{13}{23}, \frac{101}{100}, \frac{2}{3}$.
 (12) $\frac{49}{55}, \frac{9}{11}, \frac{3}{5}$.
 (13) $\frac{35}{4}, \frac{37}{5}$.
 (14) $\frac{29}{3}, \frac{103}{8}$.
 (15) $\frac{109}{10}, \frac{107}{14}$.
 (16) $\frac{229}{15}, \frac{229}{14}$.
 (17) $\frac{626}{25}, \frac{951}{28}$.
 (18) $\frac{1145}{32}, \frac{1789}{47}$.
 (19) $\frac{91}{8}, \frac{233}{12}$.
 (20) $\frac{256}{49}, \frac{1337}{47}$.
 (21) $\frac{1019}{16}, \frac{1001}{16}$.
 (22) $\frac{541}{22}, \frac{6311}{84}$.
 (23) $\frac{2597}{8}, \frac{5325}{8}$.
 (24) $\frac{2562}{6}, \frac{8542}{8}$.
 (25) $1\frac{1}{2}, 1\frac{1}{3}, 1\frac{1}{5}$.
 (26) $1\frac{1}{2}, 1\frac{1}{3}, 1\frac{1}{7}$.
 (27) $1\frac{1}{3}, 2\frac{1}{2}, 1\frac{1}{5}$.
 (28) $1\frac{1}{3}, 1\frac{1}{5}, 3\frac{1}{7}$.
 (29) $8\frac{2}{3}, 4\frac{1}{3}, 4\frac{1}{5}$.
 (30) $3\frac{9}{10}, 1\frac{7}{11}, 2\frac{2}{13}$.
 (31) $2\frac{7}{25}, 2\frac{3}{23}, 5\frac{9}{10}$.
 (32) $6\frac{7}{16}, 3\frac{1}{5}, 1\frac{3}{5}$.
 (33) $12\frac{21}{31}, 8\frac{26}{71}, 11\frac{57}{81}$.
 (34) $22, 14\frac{55}{8}, 10\frac{25}{8}$.
 (35) $53\frac{81}{101}, 6\frac{224}{33}, 8\frac{111}{42}$.
 (36) $12\frac{21}{806}, 25\frac{475}{101}, 32\frac{89}{996}$.

B

- (8) $\frac{1}{2}, \frac{17}{25}, \frac{1}{3}$.
 (9) $\frac{1}{2}, \frac{1}{3}, \frac{6}{7}$.
 (10) $\frac{2}{3}, \frac{4}{5}, \frac{113}{115}$.
 (11) $\frac{32}{31}, \frac{9}{11}, \frac{181}{185}$.
 (12) $\frac{61}{78}, \frac{411}{666}, \frac{76}{115}$.
 (13) $\frac{2}{3}, \frac{36}{5}$.
 (14) $\frac{73}{7}, \frac{41}{5}$.
 (15) $\frac{199}{11}, \frac{253}{12}$.
 (16) $\frac{62}{6}, \frac{259}{13}$.
 (17) $\frac{210}{11}, \frac{137}{12}$.
 (18) $\frac{696}{31}, \frac{1561}{36}$.
 (19) $\frac{1327}{21}, \frac{242}{12}$.
 (20) $\frac{208}{11}, \frac{1903}{37}$.
 (21) $\frac{1511}{20}, \frac{1321}{21}$.
 (22) $\frac{567}{23}, \frac{7691}{78}$.
 (23) $\frac{2355}{8}, \frac{2152}{97}$.
 (24) $\frac{4115}{46}, \frac{2013}{7}$.
 (25) $3, 4\frac{1}{2}, 3\frac{1}{4}$.
 (26) $2\frac{1}{3}, 3, 2\frac{1}{4}$.
 (27) $5\frac{1}{3}, 3\frac{2}{3}, 1\frac{2}{7}$.
 (28) $1\frac{1}{2}, 1\frac{2}{3}, 2$.
 (29) $6\frac{2}{7}, 4\frac{5}{14}, 1\frac{1}{2}$.
 (30) $2\frac{2}{3}, 6\frac{3}{10}, 5\frac{1}{2}$.
 (31) $6\frac{1}{3}, 4\frac{7}{10}, 7\frac{5}{8}$.
 (32) $6\frac{1}{3}, 23\frac{2}{31}, 21\frac{1}{3}$.
 (33) $6\frac{29}{37}, 37\frac{2}{3}, 28\frac{2}{4}$.
 (34) $452\frac{2}{13}, 30\frac{3}{19}, 57\frac{83}{168}$.
 (35) $33\frac{65}{109}, 20, 24\frac{55}{8}$.
 (36) $240\frac{2}{7}, 182\frac{79}{47}, 26\frac{717}{114}$.

LEAST COMMON MULTIPLE.

EXERCISE 3.

A

- (1) 12.
 (2) 21.
 (3) 12.
 (4) 168.
 (5) 504.

B

- (1) 12.
 (2) 10.
 (3) 36.
 (4) 24.
 (5) 24.

EXERCISE 3.—Continued.

A

- (6) 120.
 (7) 105.
 (8) 180.
 (9) 120.
 (10) 420.
 (11) 1,848.
 (12) 88,179.
 (13) 1,260.
 (14) 4,368.
 (15) 420.
 (16) 192.
 (17) 3,822.
 (18) 294.
 (19) 180.
 (20) 10,584.
 (21) 65,520.
 (22) $\frac{3}{8}, \frac{4}{8}$.
 (23) $\frac{4}{10}, \frac{5}{10}$.
 (24) $\frac{3}{8}, \frac{6}{8}$.
 (25) $\frac{15}{21}, \frac{9}{21}, \frac{14}{21}$.
 (26) $\frac{81}{90}, \frac{80}{90}, \frac{72}{90}$.
 (27) $\frac{35}{42}, \frac{36}{42}, \frac{30}{42}$.
 (28) $\frac{3}{30}, \frac{10}{30}, \frac{18}{30}$.
 (29) $\frac{60}{90}, \frac{30}{90}, \frac{36}{90}, \frac{63}{90}$.
 (30) $\frac{54}{63}, \frac{9}{63}, \frac{56}{63}, \frac{42}{63}$.
 (31) $\frac{36}{63}, \frac{14}{63}, \frac{9}{63}, \frac{49}{63}$.
 (32) $\frac{96}{120}, \frac{15}{120}, \frac{80}{120}, \frac{80}{120}$.
 (33) $\frac{252}{280}, \frac{70}{280}, \frac{80}{280}, \frac{105}{280}$.
 (34) $\frac{80}{180}, \frac{45}{180}, \frac{60}{180}, \frac{108}{180}$.
 (35) $\frac{238}{504}, \frac{315}{504}, \frac{432}{504}, \frac{504}{504}$.
 (36) $\frac{441}{630}, \frac{252}{630}, \frac{560}{630}, \frac{120}{630}, \frac{180}{630}$.
 (37) $\frac{1080}{1260}, \frac{504}{1260}, \frac{945}{1260}, \frac{1134}{1260}, \frac{1120}{1260}$.
 (38) $\frac{210}{420}, \frac{70}{420}, \frac{180}{420}, \frac{360}{420}, \frac{336}{420}$.
 (39) $\frac{2016}{2520}, \frac{560}{2520}, \frac{945}{2520}, \frac{360}{2520}, \frac{1512}{2520}$.
 (40) $\frac{504}{2520}, \frac{720}{2520}, \frac{945}{2520}, \frac{2240}{2520}, \frac{252}{2520}$.
 (41) $\frac{60}{210}, \frac{63}{210}, \frac{42}{210}, \frac{70}{210}, \frac{108}{210}$.
 (42) $\frac{108}{252}, \frac{120}{252}, \frac{224}{252}, \frac{140}{252}, \frac{210}{252}$.

B

- (6) 72.
 (7) 140.
 (8) 52,250.
 (9) 12,509,802.
 (10) 3,168.
 (11) 25,245.
 (12) 222,912.
 (13) 179,280.
 (14) 504.
 (15) 420.
 (16) 1,080.
 (17) 684.
 (18) 5,040.
 (19) 8,736.
 (20) 1,568,160.
 (21) 90,720.
 (22) $\frac{4}{12}, \frac{6}{12}$.
 (23) $\frac{2}{4}, \frac{4}{4}$.
 (24) $\frac{8}{20}, \frac{15}{20}$.
 (25) $\frac{60}{70}, \frac{56}{70}, \frac{30}{70}$.
 (26) $\frac{27}{72}, \frac{9}{72}, \frac{32}{72}$.
 (27) $\frac{80}{280}, \frac{210}{280}, \frac{56}{280}$.
 (28) $\frac{3}{8}, \frac{6}{8}, \frac{8}{8}$.
 (29) $\frac{24}{30}, \frac{9}{30}, \frac{18}{30}, \frac{16}{30}$.
 (30) $\frac{14}{63}, \frac{54}{63}, \frac{9}{63}, \frac{56}{63}$.
 (31) $\frac{50}{504}, \frac{144}{504}, \frac{180}{504}, \frac{288}{504}$.
 (32) $\frac{20}{45}, \frac{18}{45}, \frac{30}{45}, \frac{15}{45}$.
 (33) $\frac{126}{315}, \frac{270}{315}, \frac{35}{315}, \frac{252}{315}$.
 (34) $\frac{144}{168}, \frac{21}{168}, \frac{126}{168}, \frac{140}{168}$.
 (35) $\frac{360}{504}, \frac{280}{504}, \frac{252}{504}, \frac{216}{504}$.
 (36) $\frac{360}{630}, \frac{63}{630}, \frac{140}{630}, \frac{378}{630}, \frac{540}{630}$.
 (37) $\frac{30}{60}, \frac{54}{60}, \frac{15}{60}, \frac{50}{60}, \frac{48}{60}$.
 (38) $\frac{252}{280}, \frac{240}{280}, \frac{224}{280}, \frac{70}{280}, \frac{200}{280}$.
 (39) $\frac{1800}{2520}, \frac{1440}{2520}, \frac{315}{2520}, \frac{504}{2520}, \frac{1120}{2520}$.
 (40) $\frac{210}{280}, \frac{245}{280}, \frac{252}{280}, \frac{40}{280}, \frac{105}{280}$.
 (41) $\frac{252}{504}, \frac{252}{504}, \frac{360}{504}, \frac{378}{504}, \frac{56}{504}$.
 (42) $\frac{80}{280}, \frac{70}{280}, \frac{140}{280}, \frac{210}{280}, \frac{112}{280}$.

ADDITION OF PROPER FRACTIONS.

EXERCISE 4.

A		B	
(1) $\frac{1}{8}$.	(17) $1\frac{10}{16}$.	(1) $\frac{3}{4}$.	(17) $1\frac{10}{16}$.
(2) $\frac{2}{10}$.	(18) $1\frac{1}{6}$.	(2) $\frac{7}{12}$.	(18) $2\frac{8}{12}$.
(3) $\frac{3}{4}$.	(19) $2\frac{10}{16}$.	(3) $\frac{7}{10}$.	(19) $2\frac{12}{16}$.
(4) $1\frac{10}{11}$.	(20) $1\frac{1}{5}$.	(4) $\frac{7}{12}$.	(20) $1\frac{7}{12}$.
(5) $\frac{3}{7}$.	(21) $2\frac{1}{2}$.	(5) $1\frac{1}{12}$.	(21) $1\frac{10}{12}$.
(6) $1\frac{1}{12}$.	(22) $2\frac{17}{30}$.	(6) $\frac{17}{21}$.	(22) $2\frac{1}{2}$.
(7) $\frac{2}{8}$.	(23) $1\frac{1}{7}$.	(7) $\frac{4}{12}$.	(23) $2\frac{1}{6}$.
(8) $\frac{5}{10}$.	(24) $2\frac{10}{16}$.	(8) $\frac{10}{16}$.	(24) $2\frac{1}{4}$.
(9) $1\frac{17}{10}$.	(25) $3\frac{10}{16}$.	(9) $1\frac{7}{12}$.	(25) $1\frac{1}{12}$.
(10) $1\frac{1}{14}$.	(26) $3\frac{10}{16}$.	(10) $1\frac{1}{2}$.	(26) $2\frac{1}{2}$.
(11) $1\frac{5}{12}$.	(27) $2\frac{9}{10}$.	(11) $\frac{10}{10}$.	(27) $2\frac{9}{10}$.
(12) $\frac{10}{10}$.	(28) $2\frac{11}{12}$.	(12) $1\frac{10}{10}$.	(28) $3\frac{1}{2}$.
(13) $1\frac{1}{6}$.	(29) $2\frac{3}{4}$.	(13) $1\frac{1}{6}$.	(29) $2\frac{4}{6}$.
(14) $1\frac{3}{10}$.	(30) $3\frac{1}{6}$.	(14) $\frac{8}{10}$.	(30) $1\frac{10}{10}$.
(15) $\frac{1}{4}$.	(31) $2\frac{10}{10}$.	(15) $1\frac{1}{4}$.	(31) $2\frac{3}{4}$.
(16) $1\frac{1}{12}$.	(32) $2\frac{5}{12}$.	(16) $1\frac{1}{12}$.	(32) $2\frac{5}{12}$.

SUBTRACTION OF PROPER FRACTIONS.

EXERCISE 5.

A		B	
(1) $\frac{1}{8}$.	(15) $\frac{11}{10}$.	(1) $\frac{5}{10}$.	(15) $\frac{3}{10}$.
(2) $\frac{1}{10}$.	(16) $\frac{7}{10}$.	(2) $\frac{1}{2}$.	(16) $\frac{11}{10}$.
(3) $\frac{1}{12}$.	(17) $\frac{2}{10}$.	(3) $\frac{3}{10}$.	(17) $\frac{8}{10}$.
(4) $\frac{1}{6}$.	(18) $\frac{11}{12}$.	(4) $\frac{3}{7}$.	(18) $\frac{1}{10}$.
(5) $\frac{1}{12}$.	(19) $\frac{1}{5}$.	(5) $\frac{8}{10}$.	(19) $\frac{11}{10}$.
(6) $\frac{1}{10}$.	(20) $\frac{3}{10}$.	(6) $\frac{11}{10}$.	(20) $\frac{7}{10}$.
(7) $\frac{1}{11}$.	(21) $\frac{1}{10}$.	(7) $\frac{5}{10}$.	(21) $\frac{1}{10}$.
(8) $\frac{1}{12}$.	(22) $\frac{1}{10}$.	(8) $\frac{1}{10}$.	(22) $\frac{3}{10}$.
(9) $\frac{1}{10}$.	(23) $\frac{3}{10}$.	(9) $\frac{3}{10}$.	(23) $\frac{1}{10}$.
(10) $\frac{1}{10}$.	(24) $\frac{1}{10}$.	(10) $\frac{4}{10}$.	(24) $\frac{2}{10}$.
(11) $\frac{1}{12}$.	(25) $\frac{2}{10}$.	(11) $\frac{2}{10}$.	(25) $\frac{1}{10}$.
(12) $\frac{1}{10}$.	(26) $1\frac{2}{10}$.	(12) $\frac{1}{10}$.	(26) $\frac{1}{10}$.
(13) $1\frac{1}{10}$.	(27) $1\frac{1}{12}$.	(13) $\frac{7}{10}$.	(27) $\frac{1}{10}$.
(14) $\frac{1}{10}$.	(28) $1\frac{1}{10}$.	(14) $\frac{3}{10}$.	(28) $\frac{1}{10}$.

EXERCISE 5.—*Continued.*

A		B	
(29) $\frac{29}{30}$.	(37) $\frac{9}{40}$.	(29) $1\frac{3}{8}$.	(37) $1\frac{1}{10}$.
(30) $\frac{7}{8}$.	(38) $1\frac{1}{10}$.	(30) $1\frac{9}{10}$.	(38) $1\frac{2}{5}$.
(31) $\frac{71}{84}$.	(39) $1\frac{5}{12}$.	(31) $\frac{21}{40}$.	(39) $\frac{73}{110}$.
(32) $\frac{71}{140}$.	(40) $\frac{59}{60}$.	(32) $\frac{13}{15}$.	(40) $1\frac{5}{66}$.
(33) $\frac{5}{12}$.	(41) $\frac{7}{7}$.	(33) $1\frac{3}{8}$.	(41) $1\frac{3}{10}$.
(34) $\frac{22}{25}$.	(42) $1\frac{1}{2}$.	(34) $\frac{4}{5}$.	(42) $\frac{557}{666}$.
(35) $\frac{1}{4}$.	(43) $\frac{23}{30}$.	(35) $\frac{5}{12}$.	(43) $1\frac{7}{8}$.
(36) $\frac{7}{12}$.	(44) $1\frac{5}{18}$.	(36) $\frac{23}{30}$.	(44) $1\frac{11}{12}$.
(45) $1\frac{11}{10}$.		(45) $\frac{211}{330}$.	

Miscellaneous Exercises in Addition and Subtraction of Vulgar Fractions.

EXERCISE 6.

A		B	
(1) $\frac{1}{12}$.	(1) $\frac{7}{10}$.	(2) $\frac{13}{18}$.	(2) $\frac{13}{18}$.
(2) $\frac{13}{18}$.	(3) $2\frac{51}{10}$.	(3) $1\frac{7}{12}$.	(3) $1\frac{7}{12}$.
(3) $2\frac{51}{10}$.	(4) $\frac{19}{105}$.	(4) $\frac{47}{10}$.	(4) $\frac{47}{10}$.
(4) $\frac{19}{105}$.	(5) $\frac{1}{20}$.	(5) $\frac{2}{11}$.	(5) $\frac{2}{11}$.
(5) $\frac{1}{20}$.	(6) $\frac{17}{36}$ sum $\frac{1}{8}$ dif.	(6) $1\frac{1}{8}$ sum $\frac{13}{8}$ dif.	(6) $1\frac{1}{8}$ sum $\frac{13}{8}$ dif.
(6) $\frac{17}{36}$ sum $\frac{1}{8}$ dif.	(7) $\frac{22}{315}$.	(7) $\frac{17}{120}$.	(7) $\frac{17}{120}$.
(7) $\frac{22}{315}$.	(8) $\frac{2257}{315}$.	(8) $\frac{42}{72}$.	(8) $\frac{42}{72}$.
(8) $\frac{2257}{315}$.	(9) $\frac{2}{3}$.	(9) $\frac{167}{2520}$.	(9) $\frac{167}{2520}$.
(9) $\frac{2}{3}$.	(10) $\frac{42}{45}$.	(10) $\frac{19}{36}$.	(10) $\frac{19}{36}$.
(10) $\frac{42}{45}$.	(11) $\frac{1}{2}$.	(11) $1\frac{1}{2}$.	(11) $1\frac{1}{2}$.
(11) $\frac{1}{2}$.	(12) $2\frac{47}{10}$.	(12) $2\frac{1}{18}$.	(12) $2\frac{1}{18}$.
(12) $2\frac{47}{10}$.	(13) $1\frac{11}{18}$.	(13) $\frac{133}{108}$.	(13) $\frac{133}{108}$.
(13) $1\frac{11}{18}$.	(14) $\frac{131}{180}$.	(14) $\frac{131}{180}$.	(14) $\frac{131}{180}$.
(14) $\frac{131}{180}$.			

COMPOUND FRACTIONS.

EXERCISE 7.

A		B	
(1) $\frac{2}{3}$.	(9) $\frac{2}{27}$.	(1) $\frac{2}{3}$.	(9) $\frac{5}{12}$.
(2) $\frac{1}{2}$.	(10) $\frac{1}{120}$.	(2) $\frac{1}{3}$.	(10) $\frac{5}{18}$.
(3) $\frac{1}{3}$.	(11) $\frac{1}{40}$.	(3) $\frac{1}{4}$.	(11) $\frac{1}{12}$.
(4) $\frac{1}{12}$.	(12) $\frac{2}{80}$.	(4) $\frac{1}{8}$.	(12) $\frac{7}{24}$.
(5) $\frac{2}{3}$.	(13) $\frac{1}{105}$.	(5) $\frac{5}{12}$.	(13) $\frac{1}{110}$.
(6) $\frac{1}{2}$.	(14) $\frac{1}{840}$.	(6) $\frac{7}{10}$.	(14) $\frac{2}{30}$.
(7) $\frac{1}{4}$.	(15) $\frac{7}{45}$.	(7) $\frac{1}{25}$.	(15) $\frac{2}{11}$.
(8) $\frac{2}{35}$.	(16) $\frac{2}{35}$.	(8) $\frac{6}{35}$.	(16) $\frac{1}{70}$.

EXERCISE 7.—Continued.

- | | | | |
|-----------------------------------|---|-----------------------------------|--|
| A | | B | |
| (17) $\frac{1}{25}$. | (31) $18\frac{1}{3}\frac{2}{3}$. | (17) $\frac{9}{50}$. | (31) $21\frac{9}{14}$. |
| (18) $\frac{25}{2}$. | (32) $10\frac{4}{5}$. | (18) $\frac{3}{20}\frac{2}{25}$. | (32) $285\frac{2}{5}$. |
| (19) $\frac{7}{12}$. | (33) $67\frac{1}{4}$. | (19) $4\frac{4}{7}$. | (33) $53\frac{2}{3}$. |
| (20) $1\frac{1}{4}$. | (34) $318\frac{5}{18}$. | (20) $14\frac{1}{16}$. | (34) $\frac{1}{18}\frac{9}{7}$. |
| (21) $19\frac{3}{8}$. | (35) $19\frac{3}{8}$. | (21) $30\frac{1}{4}$. | (35) $34\frac{2}{3}$. |
| (22) $2\frac{2}{63}$. | (36) $121\frac{9}{6}$. | (22) $1\frac{4}{13}$. | (36) $42\frac{1}{2}$. |
| (23) $1\frac{7}{10}$. | (37) $14\frac{7}{10}$. | (23) $20\frac{5}{8}$. | (37) $2281\frac{1}{4}$. |
| (24) $16\frac{4}{3}\frac{7}{6}$. | (38) $408\frac{1}{3}\frac{5}{3}\frac{1}{1}$. | (24) $6\frac{9}{10}$. | (38) $70\frac{7}{17}$. |
| (25) $48\frac{1}{3}$. | (39) $1,124\frac{4}{5}$. | (25) $53\frac{5}{8}$. | (39) $820\frac{1}{4}\frac{3}{10}$. |
| (26) $15\frac{7}{12}$. | (40) $17\frac{1}{2}$. | (26) $19\frac{1}{8}$. | (40) $12\frac{1}{3}\frac{1}{10}$. |
| (27) $17\frac{7}{10}$. | (41) $1,949\frac{3}{4}$. | (27) $14\frac{5}{8}$. | (41) $166\frac{1}{4}$. |
| (28) $\frac{567}{1520}$. | (42) $39\frac{699}{1000}$. | (28) $46\frac{1}{2}\frac{2}{5}$. | (42) $286\frac{1}{2}$. |
| (29) $214\frac{5}{7}$. | (43) $1,429\frac{1}{2}\frac{8}{5}$. | (29) $805\frac{2}{5}$. | (43) $302\frac{1}{2}\frac{8}{5}\frac{8}{10}$. |
| (30) $31\frac{2}{3}$. | (44) 360. | (30) $4\frac{61}{40}$. | (44) $18,168\frac{3}{4}$. |
| (45) 5,643,888 $\frac{1}{3}$. | | (45) 32,453 $\frac{1}{3}$. | |

EXERCISE 8.

- | | | | |
|---|------------------------------------|---|-----------------------------------|
| A | | B | |
| (1) $10\frac{1}{2}\frac{3}{1}$. | (22) $21\frac{3}{8}$. | (1) $18\frac{1}{8}$. | (22) $\frac{2}{15}$. |
| (2) $43\frac{1}{6}\frac{3}{8}$. | (23) $74\frac{2}{8}$. | (2) $27\frac{1}{8}\frac{5}{8}$. | (23) $2\frac{2}{3}$. |
| (3) $54\frac{1}{20}$. | (24) $7\frac{1}{3}\frac{9}{10}$. | (3) $44\frac{1}{8}$. | (24) $11\frac{9}{10}$. |
| (4) $72\frac{2}{2}\frac{5}{10}$. | (25) $2\frac{1}{8}$. | (4) $23\frac{1}{8}$. | (25) $6\frac{4}{15}$. |
| (5) $81\frac{2}{8}$. | (26) $10\frac{7}{8}$. | (5) $83\frac{1}{10}$. | (26) $4\frac{1}{5}$. |
| (6) $77\frac{1}{8}$. | (27) $22\frac{5}{1}$. | (6) $40\frac{9}{17}$. | (27) $3\frac{1}{2}\frac{7}{6}$. |
| (7) $88\frac{7}{20}$. | (28) $1\frac{7}{8}$. | (7) $22\frac{1}{10}$. | (28) $76\frac{3}{10}$. |
| (8) $128\frac{6}{15}\frac{5}{3}$. | (29) $43\frac{2}{8}\frac{8}{2}$. | (8) $34\frac{2}{2}\frac{7}{1}$. | (29) $101\frac{8}{15}$. |
| (9) $316\frac{1}{3}\frac{7}{3}\frac{8}{8}$. | (30) $105\frac{1}{8}$. | (9) $61\frac{6}{1}$. | (30) $214\frac{3}{5}$. |
| (10) $336\frac{2}{6}\frac{4}{1}\frac{8}{2}$. | (31) $\frac{3}{8}$. | (10) $79\frac{5}{7}\frac{1}{1}$. | (31) $7\frac{5}{8}$. |
| (11) $299\frac{4}{3}$. | (32) $3\frac{3}{20}$. | (11) $541\frac{1}{1}$. | (32) $22\frac{3}{8}$. |
| (12) $114\frac{3}{1}\frac{8}{5}$. | (33) $30\frac{1}{5}$. | (12) $19\frac{9}{4}$. | (33) $10\frac{8}{1}$. |
| (13) $6\frac{1}{2}$. | (34) $101\frac{1}{4}$. | (13) $34\frac{9}{20}$. | (34) $1\frac{1}{2}\frac{1}{4}$. |
| (14) $65\frac{2}{5}\frac{4}{8}\frac{7}{6}$. | (35) $180\frac{3}{3}\frac{5}{6}$. | (14) $58\frac{1}{18}\frac{7}{6}$. | (35) $13\frac{9}{10}$. |
| (15) $33\frac{7}{2}\frac{9}{4}$. | (36) $22\frac{4}{6}\frac{3}{6}$. | (15) $14\frac{8}{15}\frac{0}{4}\frac{5}{4}$. | (36) $31\frac{1}{6}\frac{3}{6}$. |
| (16) $69\frac{4}{6}\frac{7}{6}$. | (37) $\frac{2}{3}\frac{2}{9}$. | (16) $32\frac{6}{1}\frac{1}{8}$. | (37) $1\frac{7}{8}$. |
| (17) $72\frac{1}{1}\frac{1}{8}$. | (38) $1\frac{4}{5}$. | (17) $28\frac{1}{3}\frac{7}{6}$. | (38) 0. |
| (18) $96\frac{1}{4}\frac{1}{5}$. | (39) $\frac{1}{2}\frac{7}{1}$. | (18) $21\frac{1}{3}\frac{6}{8}$. | (39) $5\frac{1}{2}$. |
| (19) $4\frac{3}{8}$. | (40) $6\frac{1}{4}$. | (19) $3\frac{2}{3}$. | (40) $4\frac{3}{4}$. |
| (20) $3\frac{3}{8}$. | (41) $60\frac{4}{6}\frac{0}{6}$. | (20) $6\frac{5}{8}$. | (41) $1\frac{1}{10}\frac{7}{6}$. |
| (21) $8\frac{1}{4}$. | (42) $13\frac{1}{2}\frac{9}{6}$. | (21) $13\frac{1}{2}\frac{7}{8}$. | (42) $7\frac{3}{8}$. |

Miscellaneous Exercises in Addition and Subtraction.
EXERCISE 9.

- | A | B |
|--------------------------------|---------------------------------|
| (1) $3\frac{61}{120}$. | (1) $3\frac{233}{120}$. |
| (2) $36\frac{2}{3}$. | (2) $35\frac{137}{120}$. |
| (3) 4s. $0\frac{61}{840}$ d. | (3) 2s. $11\frac{499}{840}$ d. |
| (4) £5 7s. $1\frac{47}{80}$ d. | (4) £5 0s. $2\frac{7}{4}$ d. |
| (5) $515\frac{137}{80}$. | (5) $627\frac{247}{80}$. |
| (6) $\frac{11}{8}$. | (6) $\frac{19}{8}$. |
| (7) $3\frac{7}{10}$. | (7) $4\frac{1}{10}$. |
| (8) £5 0s. $10\frac{1}{10}$ d. | (8) £2 0s. $1\frac{5}{10}$ d. |
| (9) £6 9s. $1\frac{3}{10}$ d. | (9) £5 10s. $10\frac{9}{10}$ d. |
| (10) $\frac{43}{800}$. | (10) $\frac{427}{10000}$. |
| (11) $56\frac{11}{100}$. | (11) $122\frac{17}{100}$. |
| (12) $5\frac{1}{10}$. | (12) $13\frac{1}{10}$. |

M U L T I P L I C A T I O N .
EXERCISE 10.

- | A | B |
|---|--|
| (1) $\frac{1}{8}$. | (1) $\frac{1}{12}$. |
| (2) $\frac{1}{8}$. | (2) $\frac{1}{2}$. |
| (3) $\frac{2}{5}$. | (3) $\frac{2}{3}$. |
| (4) $\frac{1}{12}$. | (4) $\frac{1}{8}$. |
| (5) $\frac{7}{9}$. | (5) $\frac{1}{3}$. |
| (6) $\frac{18}{35}$. | (6) $\frac{17}{10}$. |
| (7) $\frac{1}{10}$. | (7) $\frac{1}{3}$. |
| (8) $\frac{8}{35}$. | (8) $\frac{28}{45}$. |
| (9) $7\frac{1}{8}$. | (9) $3\frac{2}{11}$. |
| (10) $10\frac{5}{8}$. | (10) $13\frac{1}{2}\frac{1}{8}$. |
| (11) $62\frac{1}{2}\frac{5}{8}$. | (11) $23\frac{5}{8}$. |
| (12) $60\frac{1}{2}\frac{4}{7}$. | (12) $38\frac{4}{5}$. |
| (13) $54\frac{1}{4}\frac{2}{5}$. | (13) $60\frac{2}{3}\frac{2}{8}$. |
| (14) $33\frac{1}{2}\frac{9}{10}$. | (14) $53\frac{5}{8}$. |
| (15) $51\frac{1}{14}$. | (15) $38\frac{1}{14}$. |
| (16) $44\frac{7}{10}$. | (16) $45\frac{1}{10}$. |
| (17) $\frac{8}{33}$. | (17) $\frac{4}{36}$. |
| (18) $\frac{1}{12}$. | (18) $\frac{63}{2000}$. |
| (19) $\frac{21}{32}\frac{1}{10}$. | (19) $\frac{7}{36}$. |
| (20) $\frac{1}{12}$. | (20) $\frac{24}{133}$. |
| (21) $\frac{110}{135}$. | (21) $\frac{19}{300}$. |
| (22) $\frac{13}{20}$. | (22) $\frac{91}{848}$. |
| (23) $\frac{17}{45}$. | (23) $\frac{7}{13}$. |
| (24) $\frac{4}{5}$. | (24) $\frac{1}{3}$. |
| (25) $504\frac{8}{15}$. | (25) $520\frac{11}{15}$. |
| (26) $126\frac{73}{102}$. | (26) $510\frac{45}{76}$. |
| (27) $592\frac{20}{31}$. | (27) $966\frac{71}{203}$. |
| (28) $317\frac{547}{1728}$. | (28) $1475\frac{143}{23}$. |
| (29) $4,255\frac{11}{144}$. | (29) $321\frac{53}{96}$. |
| (30) $572\frac{1}{3}$. | (30) $10\frac{46993}{139924}$. |
| (31) $3,370\frac{1}{8}$. | (31) $3,356\frac{2}{3}$. |
| (32) $62\frac{4}{5}$. | (32) $3,630\frac{2}{5}$. |
| (33) $21\frac{1}{2}\frac{5}{8}$. | (33) $19,982\frac{1}{4}\frac{5}{8}$. |
| (34) $81\frac{9}{10}$. | (34) $327\frac{501}{997}$. |
| (35) $4,585\frac{7}{8}\frac{1}{10}$. | (35) $197\frac{2}{5}$. |
| (36) $114\frac{83}{128}$. | (36) $1,342\frac{1}{8}$. |
| (37) $8,370\frac{1}{4}\frac{5}{8}$. | (37) $2,533\frac{7}{8}$. |
| (38) $26,554\frac{1}{5}\frac{4}{8}$. | (38) $1,730\frac{71}{90}$. |
| (39) $4,342\frac{1}{2}\frac{1}{3}\frac{1}{4}$. | (39) $3,740\frac{55}{308}$. |
| (40) $298\frac{25}{18}\frac{1}{15}$. | (40) $8,562\frac{357}{1115}$. |
| (41) $2,403\frac{2}{4}\frac{2}{5}$. | (41) $7,381\frac{2}{5}$. |
| (42) $2,811\frac{90}{101}$. | (42) $5,815\frac{37}{80}$. |
| (43) $6,893\frac{7}{8}\frac{9}{10}$. | (43) $16,137\frac{1}{2}\frac{2}{3}\frac{1}{4}$. |

D I V I S I O N .

EXERCISE 11.

A		B	
(1) $\frac{2}{3}$.	(20) $3\frac{1}{2}\frac{2}{7}$.	(1) $1\frac{1}{8}$.	(20) $1\frac{1}{8}$.
(2) $1\frac{1}{2}$.	(21) $2\frac{1}{2}$.	(2) $1\frac{1}{8}$.	(21) $6\frac{1}{8}$.
(3) $\frac{5}{16}$.	(22) $2\frac{2}{3}\frac{2}{8}$.	(3) $1\frac{1}{8}$.	(22) $1\frac{47}{108}$.
(4) $1\frac{1}{2}$.	(23) $15\frac{5}{8}$.	(4) $1\frac{1}{8}$.	(23) $\frac{1}{2}\frac{1}{4}$.
(5) $\frac{9}{10}\frac{2}{4}$.	(24) $4\frac{1}{2}\frac{6}{1}$.	(5) $1\frac{7}{16}$.	(24) $12\frac{10}{16}\frac{5}{8}$.
(6) $\frac{5}{6}$.	(25) $19\frac{1}{8}$.	(6) $1\frac{2}{17}$.	(25) $1\frac{1}{4}\frac{1}{16}$.
(7) $1\frac{1}{15}\frac{3}{2}$.	(26) $10\frac{5}{16}$.	(7) $1\frac{1}{6}\frac{1}{5}$.	(26) $\frac{1}{2}$.
(8) $\frac{2}{3}\frac{1}{5}$.	(27) $2\frac{2}{3}\frac{2}{8}$.	(8) $\frac{2}{8}\frac{4}{8}$.	(27) $1\frac{5}{8}\frac{1}{2}$.
(9) $1\frac{1}{11}$.	(28) $12\frac{2}{3}\frac{1}{2}$.	(9) $5\frac{1}{2}\frac{5}{8}$.	(28) $3\frac{1}{2}\frac{1}{8}$.
(10) $1\frac{1}{2}\frac{1}{8}$.	(29) $1\frac{2}{3}\frac{1}{8}$.	(10) $2\frac{2}{3}\frac{2}{7}$.	(29) $18\frac{1}{8}$.
(11) $2\frac{5}{8}\frac{6}{7}$.	(30) $\frac{2}{3}\frac{4}{8}\frac{5}{8}$.	(11) $1\frac{1}{10}\frac{4}{10}$.	(30) $1\frac{5}{24}$.
(12) $1\frac{1}{3}\frac{2}{8}\frac{1}{10}$.	(31) $22\frac{2}{7}\frac{2}{10}$.	(12) $1\frac{1}{3}\frac{2}{10}$.	(31) $4\frac{3}{8}\frac{4}{8}$.
(13) $1\frac{2}{3}\frac{3}{16}$.	(32) $\frac{2}{3}\frac{7}{10}$.	(13) $1\frac{2}{3}\frac{5}{8}\frac{1}{1}$.	(32) $10\frac{5}{21}$.
(14) $1\frac{1}{10}\frac{2}{8}\frac{2}{4}$.	(33) $3\frac{2}{3}\frac{1}{8}$.	(14) $1\frac{3}{13}\frac{7}{2}$.	(33) $\frac{17}{20}\frac{2}{15}\frac{5}{5}$.
(15) $1\frac{0}{16}\frac{0}{8}\frac{3}{10}$.	(34) $11\frac{5}{8}$.	(15) $3\frac{2}{3}\frac{2}{3}$.	(34) $\frac{5}{11}\frac{1}{10}$.
(16) $1\frac{2}{3}\frac{1}{2}\frac{5}{8}$.	(35) $\frac{2}{3}\frac{0}{13}\frac{1}{4}\frac{1}{10}$.	(16) $2\frac{1}{11}\frac{1}{8}$.	(35) $\frac{8}{3}\frac{2}{4}$.
(17) $2\frac{1}{2}$.	(36) $106\frac{3}{8}\frac{1}{10}$.	(17) $3\frac{1}{2}$.	(36) $\frac{77}{237}\frac{1}{1}$.
(18) $\frac{2}{4}\frac{5}{8}$.	(37) $\frac{9}{18}\frac{6}{10}$.	(18) $\frac{1}{2}$.	(37) $16\frac{2}{3}\frac{2}{3}$.
(19) $2\frac{2}{6}\frac{2}{3}$.	(38) $11\frac{2}{30}\frac{2}{25}\frac{6}{8}$.	(19) $\frac{1}{2}\frac{1}{4}$.	(38) $1\frac{2}{8}\frac{6}{28}$.

M U L T I P L I C A T I O N A N D D I V I S I O N .

EXERCISE 12.

A	B
(1) £23 16s. 10d.	(1) £31 6s. 7 $\frac{1}{2}$ d.
(2) £38 11s. 6 $\frac{3}{4}$ d.	(2) £97 5s. 9 $\frac{1}{3}$ d.
(3) £4 0s. 5 $\frac{5}{14}$ $\frac{3}{4}$ d.	(3) £2 13s. 10 $\frac{5}{8}$ $\frac{1}{4}$ d.
(4) £10 15s. 0 $\frac{2}{3}$ $\frac{2}{8}$ d.	(4) £5 11s. 0 $\frac{7}{10}$ $\frac{9}{8}$ d.
(5) £173 17s. 1 $\frac{0}{11}$ d.	(5) £272 7s. 7 $\frac{2}{11}$ $\frac{7}{2}$ d.
(6) 101 $\frac{1}{2}$.	(6) 34 $\frac{1}{3}\frac{7}{8}$.
(7) 8 $\frac{1}{18}\frac{5}{8}$.	(7) 1 $\frac{1}{2}$ $\frac{1}{10}$.
(8) 131 $\frac{1}{4}$.	(8) 162 $\frac{8}{10}\frac{1}{4}$.
(9) $\frac{1}{2}\frac{9}{8}$.	(9) 1 $\frac{7}{2}$.
(10) 121 $\frac{5}{11}$.	(10) 23 $\frac{1}{10}$.
(11) £23 11s. 1 $\frac{3}{8}$ d.	(11) £24 12s. 0 $\frac{1}{18}$ d.
(12) £34 13s. 9 $\frac{3}{4}$ d.	(12) £19 19s. 5 $\frac{1}{2}$ d.

EXERCISE 12.—Continued.

A	B
(13) £13 12s. 7 $\frac{1}{2}$ d.	(13) £11 19s. 8 $\frac{1}{2}$ d.
(14) 5s. 6 $\frac{1}{4}$ d.	(14) £3 1s. 5 $\frac{1}{2}$ d.
(15) £17 0s. 0 $\frac{1}{2}$ d.	(15) £13 2s. 8 $\frac{1}{2}$ d.
(16) $\frac{2}{3}$.	(16) $\frac{2}{3}$.
(17) 6 $\frac{1}{2}$.	(17) 8 $\frac{1}{2}$.
(18) $\frac{2}{3}$.	(18) 179.
(19) 11 $\frac{5}{8}$.	(19) 23 $\frac{1}{2}$.
(20) 3 $\frac{21}{100}$.	(20) 21 $\frac{14}{100}$.
(21) 3 $\frac{1}{2}$.	(21) $\frac{1}{2}$.
(22) 39 $\frac{3}{2}$.	(22) 2.
(23) 3 $\frac{1}{2}$.	(23) 194 $\frac{1}{2}$.

COMPLEX FRACTIONS.

EXERCISE 13.

A	B
(1) $\frac{1}{2}$.	(1) $\frac{2}{3}$.
(2) $\frac{3}{8}$.	(2) $\frac{2}{3}$.
(3) $\frac{15}{4}$.	(3) $\frac{5}{8}$.
(4) $\frac{1}{7}$.	(4) 9 $\frac{1}{2}$.
(5) $\frac{6}{8}$.	(5) 1 $\frac{1}{2}$.
(6) $\frac{2}{3}$.	(6) 3 $\frac{7}{11}$.
(7) 1 $\frac{1}{2}$.	(7) $\frac{17}{20}$.
(8) 5 $\frac{1}{2}$.	(8) $\frac{16}{3}$.
(9) 20 $\frac{2}{11}$.	(9) $\frac{2}{3}$.
(10) $\frac{2}{3}$.	(10) $\frac{9}{10}$.
(11) 7 $\frac{2}{7}$.	(11) $\frac{1}{8}$.
(12) 11 $\frac{7}{20}$.	(12) 2 $\frac{3}{8}$.
(13) $\frac{5}{15}$.	(13) $\frac{9}{4}$.
(14) $\frac{2}{3}$.	(14) $\frac{9}{25}$.
(15) 63 $\frac{5}{7}$.	(15) 352 $\frac{2}{3}$.

REDUCTION OF FRACTIONS.

EXERCISE 14.

A	B
(1) 3s. 4d.	(1) 7s. 10 $\frac{1}{2}$ d.
(2) 8s. 9d.	(2) £1 3s. 7 $\frac{1}{2}$ d.
(3) 10 $\frac{1}{2}$ d.	(3) 3s. 7 $\frac{7}{11}$.
(4) 3s. 8d.	(4) 15s. 9d.
(5) £1 7s. 11d.	(5) 4s. 6d.
(6) 6s. 10 $\frac{1}{2}$ d.	(6) 1 $\frac{1}{2}$ d.
(7) 12 cwt.	(7) 2 fur. 26 po. 3 $\frac{2}{3}$ yds.
(8) 70 lbs. or 2 $\frac{1}{2}$ qrs.	(8) 2 rds. 20 sq. po.
(9) 10 $\frac{2}{3}$ ozs.	(9) 2 ft.

EXERCISE 14.—Continued.

- A**
- (10) 5 fur. 24 pls.
 - (11) 25 pls.
 - (12) 2 yds.
 - (13) 18 hrs.
 - (14) 40 min.
 - (15) 48 secs.
 - (16) £1 10s. 0d.
 - (17) £11 4s.
 - (18) £36 15s. 0d.
 - (19) $\frac{1}{2}$.
 - (20) $\frac{1}{10}$.
 - (21) $\frac{1}{7}$.
 - (22) $\frac{23}{120}$.
 - (23) $\frac{1}{5}$.
 - (24) $\frac{1}{10}$.
 - (25) $\frac{2}{10}$.
 - (26) $\frac{2}{3}$.

- B**
- (10) 6 ozs.
 - (11) 12 cwt.
 - (12) 5 fur. 10 pls.
 - (13) £15 0s. 0d.
 - (14) 18s. 0d.
 - (15) 6 fur. 16 pls.
 - (16) 2 cwt. 1 qr. 7 lbs.
 - (17) £1 4s. 2d.
 - (18) £12 13s. 6d.
 - (19) $\frac{1}{5}$.
 - (20) $\frac{1}{3}$.
 - (21) $\frac{1}{4}$.
 - (22) $\frac{1}{8}$.
 - (23) $\frac{1}{4}$.
 - (24) $\frac{1}{8}$.
 - (25) $\frac{2}{5}$.
 - (26) $\frac{1}{3}$.

EXERCISE 15.

- A**
- (1) $\frac{1}{12}$.
 - (2) $\frac{1}{3}$.
 - (3) $\frac{3}{16}$.
 - (4) $\frac{20}{80}$.
 - (5) $\frac{3}{64}$.
 - (6) $\frac{5}{6}$ or $8\frac{5}{6}$.
 - (7) $\frac{17}{2}$ or $86\frac{1}{2}$.
 - (8) $\frac{7}{120}$.
 - (9) $\frac{139}{2340}$.
 - (10) $\frac{20}{25}$.
 - (11) $\frac{1}{15}$.
 - (12) $\frac{9}{154}$.
 - (13) $\frac{14}{925}$.
 - (14) $\frac{2}{5}$.
 - (15) $\frac{5}{12}$.
 - (16) $\frac{40}{60}$.
 - (17) $\frac{2}{10}$.

- B**
- (1) $\frac{7}{12}$.
 - (2) $\frac{20}{88}$.
 - (3) $\frac{17}{3}$ or $58\frac{2}{3}$.
 - (4) $\frac{23}{2240}$.
 - (5) $\frac{11}{21}$.
 - (6) $\frac{2}{10}$ or $1\frac{1}{10}$.
 - (7) $\frac{101}{2}$ or $95\frac{1}{2}$.
 - (8) $\frac{11}{188}$.
 - (9) $\frac{7}{80}$.
 - (10) $\frac{17}{3}$ or $5\frac{2}{3}$.
 - (11) $\frac{43}{204}$.
 - (12) $\frac{2}{3}$ or $8\frac{2}{3}$.
 - (13) $\frac{20}{99}$.
 - (14) $\frac{57}{320}$.
 - (15) $\frac{3}{140}$.
 - (16) $\frac{401}{90}$ or $4\frac{1}{90}$.
 - (17) $\frac{1}{60}$.

EXERCISE 16.

- A**
- (1) $\frac{2}{4}$.
 - (2) $\frac{10}{100}$.
 - (3) $\frac{21}{203}$.
 - (4) $\frac{1}{64}$.
 - (5) $\frac{20}{20}$.
 - (6) $\frac{10}{13}$.
 - (7) $\frac{50}{207}$.
 - (8) $\frac{1}{2}$ or 15.

- B**
- (1) $7\frac{1}{2}$.
 - (2) $\frac{1}{32}$.
 - (3) $\frac{99}{224}$.
 - (4) $\frac{1}{60}$.
 - (5) $\frac{124}{31}$ or $5\frac{29}{31}$.
 - (6) $\frac{28}{81}$.
 - (7) $\frac{7}{18}$.
 - (8) $10\frac{1}{2}$.

EXERCISE 16.—Continued.

A		B	
(9) $\frac{813}{831}$.	(13) $\frac{11}{25}$.	(9) $\frac{1}{18}$.	(13) $\frac{5}{8}$.
(10) $\frac{1}{45}$.	(14) $\frac{3}{40}$.	(10) $\frac{2}{112}$.	(14) $\frac{9}{260}$.
(11) $\frac{14}{18}$.	(15) $\frac{411}{1800}$.	(11) $\frac{19}{47}$.	(15) $\frac{9}{14}$.
(12) $\frac{1}{90}$.	(16) $\frac{55}{192}$.	(12) $\frac{21}{128}$.	(16) $\frac{9}{130}$.

Miscellaneous Exercises in Vulgar Fractions.

EXERCISE 17.

A	B
(1) $\frac{2}{3}$ greatest, $\frac{1}{2}$ least.	(1) $\frac{5}{8}$ greatest, $\frac{4}{5}$ least.
(2) $\frac{7}{8}$, $\frac{3}{7}$, $\frac{1}{4}$, $\frac{2}{9}$, $\frac{1}{3}$.	(2) $\frac{3}{10}$, $\frac{2}{3}$, $\frac{5}{7}$, $\frac{3}{4}$, $\frac{7}{9}$, $\frac{4}{5}$.
(3) $\frac{13}{40}$.	(3) $\frac{4}{9}$.
(4) $\frac{3}{40}$.	(4) $\frac{11}{10}$.
(5) $\frac{274}{437}$.	(5) 2,520.
(6) $\frac{3}{16}$.	(6) £3 6s. $6\frac{3}{4}$ d.
(7) $\frac{5}{24}$.	(7) $\frac{23}{8}$.
(8) £552 17s. $2\frac{3}{4}$ d.	(8) 20.
(9) £3 17s. $5\frac{1}{8}$ d.	(9) $1\frac{2}{5}$.
(10) $\frac{1}{12}$.	(10) $2\frac{3}{8}$.
(11) $\frac{5}{8}$.	(11) $1\frac{1}{2}$.
(12) $\frac{5}{13}$.	(12) $\frac{1}{20}$.
(13) $18\frac{101}{11}$.	(13) $2\frac{1}{7}$.

EXERCISE 18.

A	B
(1) Sum $\frac{5}{8}$, dif. $\frac{1}{3}$.	(1) $\frac{1}{18}$.
(2) $9\frac{3}{8}$.	(2) $\frac{45}{136}$.
(3) $5\frac{1}{15}$.	(3) $13\frac{7}{18}$.
(4) $8\frac{10}{11}$.	(4) $\frac{295}{2208}$.
(5) 18 times.	(5) $\frac{11}{20}$.
(6) $\frac{16}{3}$, $\frac{67}{9}$, $\frac{203}{15}$, $\frac{11312}{83}$.	(6) $4\frac{29}{80}$.
(7) $\frac{5}{11}$.	(7) $8\frac{12}{5}$.
(8) 73, 240.	(8) $1631\frac{10}{100}$.
(9) $2\frac{5}{8}$.	(9) £20 0s. $3\frac{1}{2}$ d.
(10) $\frac{9}{11}$, $\frac{3}{8}$.	(10) $1\frac{7}{8}$.
(11) $\frac{1}{45}$.	(11) $\frac{1}{10}$, $\frac{8}{17}$.
(12) £5 3s.	(12) 6, 240.
(13) $\frac{163}{116}$.	(13) $22\frac{7}{14}$.
(14) 1.	(14) 10.
(15) 120.	(15) 189.

EXERCISE 19.

- | A | B |
|---|---|
| (1) £49 1s. 9d. | (1) $\frac{1}{2}$. |
| (2) $27\frac{1}{2}$. | (2) £5 12s. 4d. |
| (3) $37\frac{5}{8}$. | (3) £4 0s. $8\frac{7}{10}$ d., $4\frac{187}{1000}$. |
| (4) $\frac{4}{3}$ greatest, $\frac{2}{10}$ least. | (4) £1,920 0s. 5d. |
| (5) $1\frac{3}{8}$. | (5) $18\frac{7}{8}$. |
| (6) $2\frac{3}{4}$. | (6) 5. |
| (7) $1\frac{2}{3}$. | (7) £3,575. |
| (8) $39\frac{3}{4}$. | (8) 6 times. |
| (9) $1\frac{1}{4}$. | (9) $5\frac{7}{12}$, $1\frac{1}{2}$, $7\frac{7}{12}$, $1\frac{1}{4}$. |
| (10) 5s. 4d. | (10) £3 1s. 10d. |
| (11) £3 12s. $6\frac{3}{4}$ d. | (11) $6\frac{5}{8}$. |

EXERCISE 20.

- | A | B |
|--|--------------------------------|
| (1) £18 13s. $0\frac{1}{2}$ d., £22 10s. 0d. | (1) $1,261\frac{5}{11}$ yds. |
| (2) $896\frac{3}{5}$. | (2) 2s. $6\frac{2}{3}$ d. |
| (3) £1 8s. $5\frac{7}{10}$ d. | (3) $33\frac{1}{2}$. |
| (4) $\frac{1}{2}$, $\frac{1}{3}$, $\frac{2}{3}$, $4\frac{2}{3}$. | (4) $1\frac{1}{7}$. |
| (5) £3 2s. $6\frac{1}{2}$ d. | (5) £3 3s. $11\frac{1}{8}$ d. |
| (6) £2 1s. $1\frac{3}{8}$ d. | (6) £2 1s. $5\frac{2}{3}$ d. |
| (7) £9 19s. $0\frac{5}{8}$ d. | (7) $\frac{5}{14}$. |
| (8) $\frac{6}{17}$. | (8) £7 13s. $6\frac{9}{10}$ d. |
| (9) £5 8s. $4\frac{1}{2}$ d. | (9) 16s. 8d. |
| (10) 26 days. | (10) 76. |
| (11) $1\frac{1}{2}$. | (11) $4\frac{3}{8}$. |
| (12) 390. | (12) £4 11s. 1d. |

EXERCISE 21.

- | A | B |
|--|-----------------------------|
| (1) 42. | (1) £22 8s. 4d. |
| (2) 1. | (2) 1. |
| (3) $1\frac{1}{6}$. | (3) 5,040. |
| (4) $1\frac{8}{11}$. | (4) 95, $1\frac{7}{10}$. |
| (5) £483 15s. $6\frac{3}{4}$ d. | (5) $12\frac{17}{100}$. |
| (6) $5\frac{5}{7}$. | (6) $\frac{5}{8}$ too much. |
| (7) £4,420 14s. 6d. | (7) $2\frac{7}{10}$. |
| (8) £3,600, £2,880, £2,400,
£1,800, £1,440. | (8) £1 16s. |

EXERCISE 22.

- | A | B |
|--|---|
| (1) $101\frac{2}{8}$ lb. and $85\frac{4}{8}$ lb. | (1) £ $2\frac{1}{2}$ or £2 10s. 4d. |
| (2) $\frac{1}{8}$. | (2) $16\frac{1}{2}$ days. |
| (3) $\frac{1}{2}$. | (3) £2,700. |
| (4) 120 miles. | (4) 180. |
| (5) $1\frac{3}{8}$. | (5) $\frac{2}{3}\frac{2}{5}\frac{4}{8}$. |
| (6) $45\frac{2}{8}$. | (6) $3\frac{1}{2}\frac{1}{4}$. |
| (7) $\frac{1}{3}$. | (7) $\frac{1}{3}\frac{1}{5}$. |

DECIMAL FRACTIONS.

EXERCISE 23.

- | A | B |
|-----------------------------|---------------------------|
| (1) $\frac{1}{10}$. | (1) $\frac{1}{2}$. |
| (2) $\frac{1}{100}$. | (2) $\frac{2}{100}$. |
| (3) $\frac{1}{1000}$. | (3) $\frac{1}{200}$. |
| (4) $\frac{1}{10000}$. | (4) $\frac{1}{2}$. |
| (5) $\frac{1}{100000}$. | (5) $\frac{1}{20}$. |
| (6) $\frac{1}{1000000}$. | (6) $\frac{1}{200}$. |
| (7) $\frac{1}{2}$. | (7) $\frac{1}{200}$. |
| (8) $\frac{1}{20}$. | (8) $\frac{2}{100}$. |
| (9) $\frac{3}{1000}$. | (9) $\frac{5}{8}$. |
| (10) $\frac{8}{100}$. | (10) $\frac{1}{8}$. |
| (11) $\frac{34}{1000}$. | (11) $\frac{3}{4}$. |
| (12) $\frac{6}{20}$. | (12) $\frac{5}{100}$. |
| (13) $6\frac{1}{2}$. | (13) $\frac{2}{2000}$. |
| (14) $7\frac{1}{2}$. | (14) $\frac{1}{8000}$. |
| (15) $32\frac{1}{20}$. | (15) $\frac{1}{200}$. |
| (16) $5\frac{3}{100}$. | (16) $\frac{7}{30}$. |
| (17) $3\frac{2}{1000}$. | (17) $\frac{1}{24}$. |
| (18) $4\frac{1}{2}$. | (18) $\frac{2}{30}$. |
| (19) $7\frac{7}{20}$. | (19) $\frac{2}{2000}$. |
| (20) $20\frac{1}{200}$. | (20) $500\frac{1}{200}$. |
| (21) $367\frac{1}{200}$. | (21) $\frac{2}{30}$. |
| (22) $8\frac{3}{200}$. | (22) $62\frac{7}{200}$. |
| (23) $\frac{8001}{10000}$. | (23) $56\frac{1}{200}$. |
| (24) $16\frac{1}{100}$. | (24) $\frac{1}{2000}$. |
| (25) .1. | (25) .5. |
| (26) .25. | (26) .05. |
| (27) .8. | (27) 1.5. |
| (28) .36. | (28) .02. |
| (29) .9. | (29) .25. |
| (30) .675. | (30) .875. |
| (31) .17. | (31) 2.25. |
| (32) .125. | (32) .8125. |
| (33) .23. | (33) .375. |
| (34) .5. | (34) .90625. |
| (35) .05. | (35) 14.263. |
| (36) .9375. | (36) .072. |
| (37) .016. | (37) .011. |
| (38) .18. | (38) .85. |
| (39) .0093. | (39) .4523. |
| (40) .34. | (40) .4625. |
| (41) .003. | (41) .0057. |
| (42) .2. | (42) .9375. |
| (43) .0011. | (43) .00204. |
| (44) .29375. | (44) 23.14. |
| (45) .0017. | (45) 1.81372. |
| (46) .32. | (46) 7.9375. |
| (47) .019. | (47) 812.57. |
| (48) 18.7. | (48) 6.008. |

ADDITION OF DECIMALS.**EXERCISE 24.**

- A**
- (1) 63·842.
 - (2) 802·9558.
 - (3) 20·23388.
 - (4) 44·96035.
 - (5) 48·631504.
 - (6) 98·99994.
 - (7) 1296·0968.
 - (8) 6153·70427.
 - (9) 35·837004.
 - (10) 126·37472045.
 - (11) 4852·7779.
 - (12) 71·65377.
 - (13) 17·63105.
 - (14) 2107·7567.
 - (15) 909·23225.
 - (16) 416·45789.
 - (17) 38140·286.

- B**
- (1) 278·13076.
 - (2) 97·286155.
 - (3) 869·35984.
 - (4) 939·2649.
 - (5) 273·83785.
 - (6) 662·28114.
 - (7) 47·550685.
 - (8) 997·49323.
 - (9) 748·85045.
 - (10) 52·68313.
 - (11) 5888·1927.
 - (12) 376·8231.
 - (13) 1765·74986.
 - (14) 3779·20382.
 - (15) 964·307276.
 - (16) 988·68711.
 - (17) 356·27889.

SUBTRACTION OF DECIMALS.**EXERCISE 25.**

- A**
- (1) 211·6875.
 - (2) 6·214.
 - (3) 311·90571.
 - (4) ·0001.
 - (5) ·09.
 - (6) ·08885.
 - (7) 307·4741.
 - (8) 4·612432.
 - (9) 1·1527.
 - (10) 7·77938.
 - (11) 687·77175.
 - (12) 71·4325.
 - (13) 86·2062135.
 - (14) 8·0000001.

- B**
- (1) ·40.
 - (2) 657·30283.
 - (3) ·009.
 - (4) 7544·52.
 - (5) 1346·4.
 - (6) 295·713.
 - (7) 316·0171.
 - (8) 4·219576.
 - (9) 254·735915.
 - (10) 2·696.
 - (11) ·1572.
 - (12) 1·3006.
 - (13) ·100061.
 - (14) 22·199.

EXERCISE 25.—*Continued.*

A

- (15) $\cdot 910268$.
- (16) $47\cdot 113825$.
- (17) $\cdot 003242$.
- (18) $\cdot 901331$.
- (19) $\cdot 0895357$.
- (20) $765\cdot 85275$.
- (21) $2\cdot 666667$.
- (22) $2\cdot 88641$.
- (23) $1\cdot 13706$.

B

- (15) $313\cdot 8864$.
- (16) $50\cdot 70637$.
- (17) $47\cdot 59814$.
- (18) $\cdot 00009$.
- (19) $\cdot 001038$.
- (20) $2\cdot 04173$.
- (21) $9\cdot 22221$.
- (22) $348\cdot 7509988$.
- (23) $9\cdot 9989891$.

MULTIPLICATION OF DECIMALS.

EXERCISE 26.

A

- (1) $333\cdot 2$.
- (2) $\cdot 03332$.
- (3) $99\cdot 693$.
- (4) $3226\cdot 24$.
- (5) $32262\cdot 4$.
- (6) $9\cdot 92$.
- (7) $\cdot 00243$.
- (8) $2\cdot 43$.
- (9) $21\cdot 3978$.
- (10) $\cdot 04$.
- (11) $\cdot 0000004$.
- (12) $\cdot 8$.
- (13) 4360 .
- (14) $47\cdot 6$.
- (15) $6\cdot 240312$.
- (16) $\cdot 01428$.
- (17) 4760 .
- (18) $8\cdot 5698$.
- (19) 48320 .
- (20) $2358\cdot 9824$.
- (21) $\cdot 03$.
- (22) 9 .
- (23) $\cdot 00009$.
- (24) $29\cdot 75$.

B

- (1) $1043\cdot 68$.
- (2) $631\cdot 38$.
- (3) $455\cdot 05$.
- (4) $2478\cdot 34$.
- (5) $5070\cdot 22$.
- (6) $3776\cdot 45$.
- (7) $2\cdot 117178$.
- (8) $3\cdot 625656$.
- (9) $3\cdot 277278$.
- (10) $\cdot 009025$.
- (11) $\cdot 005329$.
- (12) $\cdot 007396$.
- (13) $\cdot 00000045323$.
- (14) $\cdot 00000060421$.
- (15) $\cdot 00000023919$.
- (16) $355\cdot 216$.
- (17) $237\cdot 169$.
- (18) $887\cdot 364$.
- (19) 3 .
- (20) $4\cdot 55$.
- (21) $63\cdot 90355$.
- (22) $5\cdot 22$.
- (23) $25\cdot 20126$.
- (24) $64\cdot 80324$.

EXERCISE 26.—Continued.

A	B
(25) .02112.	(25) .000161.
(26) 2816.	(26) .0004608.
(27) .00007614.	(27) .0005015.
(28) 1.735.	(28) 140.608.
(29) 79.280.	(29) 226.981.
(30) .07980.	(30) 79.507.
(31) 246.	(31) 9.5532.
(32) 4508.	(32) 27.02546.

DIVISION OF DECIMALS.

EXERCISE 27.

A	B
(1) 2.	(1) 2.
(2) 3.	(2) 9.
(3) 25.	(3) 139.
(4) 53.	(4) 4.
(5) 707.	(5) 4369.
(6) 2100.	(6) 1236000.
(7) 50940.	(7) 204000.
(8) 71956.	(8) 123600.
(9) 17371000.	(9) 3000003000.
(10) 5210.	(10) 1737100.
(11) .2.	(11) .0703.
(12) 524.7.	(12) 36.891.
(13) .00005.	(13) 8.04.
(14) 51.18.	(14) 20.056.
(15) 28.34.	(15) 73.008.
(16) 63.	(16) 23061.
(17) 7201.	(17) 3517.
(18) 52.	(18) 4.784.
(19) 557.	(19) 10102827.
(20) 155.	(20) 23.
(21) 9538000.	(21) 17371000.
(22) 170010.	(22) 29620000.
(23) 751350.	(23) 7638000.
(24) 784320.	(24) .0000015625.
(25) .108.	(25) 8892.
(26) .025.	(26) .05008.
(27) 176.	(27) 701.
(28) 10500.	(28) 3687.
(29) 1234.	(29) .7859.
(30) .000156.	(30) .2962.
(31) .00561.	(31) 23627.
(32) 8400.	(32) 953800.

CIRCULATING DECIMALS.

EXERCISE 28.

A	B
(1) $\frac{1}{2}$; $\frac{7}{8}$; $\frac{19}{25}$.	(1) $\frac{5}{8}$; $\frac{17}{25}$; $\frac{7}{11}$.
(2) $\frac{3}{11}$; $\frac{88}{99}$; $\frac{5}{11}$.	(2) $\frac{101}{111}$; $\frac{43}{111}$; $\frac{37}{11}$.
(3) $\frac{11^2}{111}$; $\frac{58}{99}$; $2\frac{2}{33}$.	(3) $\frac{115}{111}$; $2\frac{688}{111}$; $5\frac{154}{111}$.
(4) $\frac{1}{90}$; $\frac{3}{10}$; $\frac{7}{90}$.	(4) $\frac{11}{90}$; $\frac{4}{10}$; $\frac{13}{90}$.
(5) $\frac{57}{990}$; $8\frac{1}{11}$; $4\frac{101}{111}$.	(5) $\frac{136}{111}$; $\frac{9}{11}$; $\frac{25}{111}$.

EXERCISE 28.—Continued.

A

- (6) $\frac{251}{249975}$; $3\frac{22}{110}$; $5\frac{3}{1100}$.
- (7) $\cdot 1\dot{6}$; $\cdot 58\dot{3}$; $\cdot 0\dot{3}$.
- (8) $\cdot 42857\dot{1}$; $\cdot 30769\dot{2}$; $\cdot 5$.
- (9) $\cdot 23$; $\cdot 72$; $\cdot 0083$.
- (10) $2\cdot 4\dot{6}$; $\cdot 642857\dot{1}$; $\cdot 358$.
- (11) $10\cdot 357142\dot{8}$; $2\cdot 38085\dot{2}$; $\cdot 021\dot{6}$.
- (12) $3\cdot 732$; $2\cdot 0009$; $17\cdot 060975$.
- (13) $281\cdot 509564$.
- (14) $858\cdot 955385$.
- (15) $14\cdot 643854$.
- (16) $15\cdot 6\dot{5}\dot{3}$.
- (17) $2\cdot 0\dot{6}$.
- (18) $\cdot 7\dot{7}\dot{8}$.
- (19) $1\cdot 311329$.
- (20) $5\cdot 317\dot{6}$.
- (21) $\cdot 7\dot{6}89\dot{1}$.
- (22) $\cdot 0\dot{4}$.
- (23) $1056\cdot 641\dot{6}$.

B

- (6) $\frac{145}{16668}$; $\frac{92}{198}$; $\frac{275}{2177}$.
- (7) $\cdot 6$; $\cdot 8\dot{3}$; $\cdot 42857\dot{1}$.
- (8) $2\cdot 57142\dot{8}$; $1\cdot 5$; $\cdot 84615\dot{3}$.
- (9) $\cdot 7\dot{2}$; $\cdot 7\dot{7}\dot{2}$; $2\cdot 0\dot{9}$.
- (10) $1\cdot 5\dot{3}7\dot{0}$; $4\cdot 0\dot{9}$; $1\cdot 71428\dot{5}$.
- (11) $\cdot 78$; $\cdot 857142$; $1\cdot 4$.
- (12) $\cdot 5\dot{6}$; $5\cdot 0\dot{4}\dot{5}$; $\cdot 7\dot{4}\dot{3}$.
- (13) $13\cdot 843948$.
- (14) $126\cdot 962449$.
- (15) $69\cdot 493463$.
- (16) $1\cdot 671\dot{6}$.
- (17) $\cdot 61\dot{4}$.
- (18) $\cdot 24\dot{9}\dot{8}$.
- (19) $2\cdot 09\dot{8}\dot{1}$.
- (20) $\cdot 042\dot{4}3\dot{6}$.
- (21) $\cdot 001\dot{9}5\dot{7}$.
- (22) $1\cdot 52\dot{7}$.
- (23) $47\cdot 32$.

REDUCTION OF DECIMAL FRACTIONS.

EXERCISE 29.

A

- (1) 5s. 6d.
- (2) 13s. $1\frac{1}{2}$ d.
- (3) $1\frac{1}{2}$ d.
- (4) 6s. 5·4d.
- (5) 2s. 10·452d.
- (6) £1 6s. 3d.
- (7) 10s. $1\frac{1}{2}$ d.
- (8) £19 6s. 11·52d.
- (9) 1s. $4\frac{1}{8}$ d.
- (10) £13 5s. 6d.
- (11) 10s. 8·1d.
- (12) £1 6s. 0·96d.
- (13) 12s. 4d.

B

- (1) 8s. 9d.
- (2) 3s. $4\frac{1}{2}$ d.
- (3) 1s. 11·352d.
- (4) 7s. 10·374d.
- (5) £4 10s. 4·375d.
- (6) 2s. 4·63d.
- (7) 7·39125d.
- (8) £6 13s. 6d.
- (9) £35 5s. 0d.
- (10) £1 8s. 4d.
- (11) £1 16s. 5·4d.
- (12) 5s. $7\frac{1}{2}$ d.
- (13) 2s. $6\frac{3}{4}$ d. or 2s. 6·046875d.

EXERCISE 29.—*Continued.*

A

- (14) $9\frac{1}{4}$ d.
 (15) 6 cwts. 1 qr. 14 lbs.
 (16) 1 cwt. 2 qrs. 16 lbs. 12 ozs.
 12·8 drs.
 (17) 1 ton 11 cwts. 1 qr. 21 lbs.
 4 ozs. 7·68 drs.
 (18) 5 fur. 15 pls. 4 yds. 0 ft.
 3·312 incs.
 (19) 6 mls. 1 fur. 38 pls. 0 yds.
 1 ft. 3·84 incs.
 (20) 2 acs. 3 rds. 25 pls. 27 yds.
 7 ft. 67·68 incs.
 (21) 1 rd. 31 pls. 10 yds. 8 ft.
 1·44 incs.
 (22) 4 gals. 3 qts. 0 pts. 2·4
 gills.
 (23) 8 gals. 2 qts. 1 pt. 1·472
 gills.
 (24) 4 bus. 1 pk. 0 gal. 2 qts.
 1 pt. 2·016 gills.
 (25) 13 hrs. 28 mins. 7·68 secs.
 (26) 3 ft. 10·23 incs.
 (27) 4 pls. 0 yds. 1 ft. 9·78 incs.
 (28) 1 qt. 2·08 gills.
 (29) 1 pt. 3·56 gills.
 (30) 1 fur. 34 pls. 1 yd. 0 ft.
 11·52 incs.

B

- (14) 3s. 5·145d.
 (15) 7 cwt. 0 qrs. 14 lbs.
 (16) 1 cwt. 2 qrs. 3 lbs [5 oza.
 12·16 drs.
 (17) 2 tons 12 cwts. 2 qrs. 26 lbs.
 14 ozs. 1·28 drs.
 (18) 3 fur. 3 pls. 3 yds. 2 ft.
 2·64 incs.
 (19) 5 fur. 20 pls. 4 yds. 2 ft.
 3·072 incs.
 (20) 1 ac. 2 rds. 27 pls. 15 yds.
 6 ft. 82·08 incs.
 (21) 2 acs. 0 rds. 37 pls. 19 yds.
 5 ft. 60·192 incs.
 (22) 6 gal. 1 qt. 0 pts. 3·264
 gills.
 (23) 1 pt. 1·0816 gills.
 (24) 7 bus. 2 pks. 1 gal. 3 qts.
 1 pt. 0·6208 gills.
 (25) 9 hrs. 10 min. 48 secs.
 (26) 1 lb. 9 ozs. 11·68 drs.
 (27) 2 bus. 1 pk. 0 gals. 0 qts.
 1 pt. 2·4 gills.
 (28) 3 acs. 2 rds. 39 pls. 9 yds.
 8 ft. 42·912 incs.
 (29) 9 gals. 3 qts. 0 pts. 1·984 gills.
 (30) 11 hrs. 5 mins. 25·44 secs.

EXERCISE 30.

A

- (1) ·125; ·2.
 (2) ·16̇; ·5.
 (3) ·75; ·06̇.
 (4) ·025; ·0125.
 (5) ·25; ·125.
 (6) ·3̇; ·5.
 (7) ·1; ·04.

B

- (1) ·25; ·3̇.
 (2) ·375; ·625.
 (3) ·875; ·0625.
 (4) ·03̇; ·083̇.
 (5) ·75; ·16̇.
 (6) ·25; ·16̇.
 (7) ·03̇; ·0572916̇.

EXERCISE 30.—*Continued.*

A	B
(8) $\cdot 025$.	(8) $\cdot 54$.
(9) $\cdot 03205128$.	(9) $\cdot 027$.
(10) $\cdot 125$.	(10) $\cdot 2571428$.
(11) $\cdot 008370 +$.	(11) $\cdot 125$.
(12) $\cdot 55625$.	(12) $\cdot 0098169\dot{i}$.
(13) $\cdot 3$.	(13) $\cdot 0049825 +$.
(14) $\cdot 46875$.	(14) 6.
(15) $1\cdot 55$.	(15) $\cdot 144406 +$.
(16) 3.	(16) $\cdot 028125$.
(17) $\cdot 375$.	(17) $1\cdot 625$.
(18) $\cdot 064453125$.	(18) $\cdot 11825396$.

Miscellaneous Exercises in Decimal Fractions.

EXERCISE 31.

A	B
(1) $\cdot 483017$.	(1) $\cdot 53$; $\cdot 007$; $\cdot 084375$.
(2) $7\cdot 792968 + \text{etc.}$	(2) 6408 ; 114000.
(3) $\cdot 075$.	(3) 2s. $1\frac{1}{2}$ d. ; £1 6s. 7·14d.
(4) $25\cdot 1\dot{6}$.	(4) $800\cdot 37$; $205\cdot 4$; $\cdot 073$.
(5) $\cdot 61$.	(5) $4\cdot 2633$; $1\cdot 405712$.
(6) $\cdot 00038646$.	(6) $16\cdot 5393$.
(7) $\cdot 000004$.	(7) $1\frac{3}{100}$; $6\frac{7}{10}$; $\frac{25}{10000}$; $74\frac{1}{100}$.
(8) $1\cdot 55625$.	(8) $\cdot 041\dot{6}$; $\cdot 3375$.
(9) $7\cdot 71428\dot{5}$ cwt.	(9) $\cdot 07$; $\cdot 0043$; $\cdot 000091$.
(10) $\cdot 953125$ bushel.	(10) $72\cdot 8$; $797\cdot 448165 +$.
(11) $\cdot 342465 +$.	(11) $\cdot 0625$; $8\cdot 0125$; $\cdot 008$; $\cdot 00390625$; $8\cdot 08690625$.

EXERCISE 32.

A	B
(1) $\cdot \dot{i}$.	(1) 1.
(2) $\cdot 01$.	(2) $3\cdot 204$.
(3) $1\cdot 22$.	(3) $\cdot 1$.
(4) $8\cdot \dot{8}$.	(4) 19.
(5) $\cdot 05$.	(5) $48\cdot 75$.
(6) $\cdot 12$.	(6) $10\cdot 9$.
(7) $186\cdot 94$.	(7) 2000.
(8) $\cdot 03125$.	(8) $\cdot 225$.
(9) $298\cdot 25$.	(9) 3 cwts. 0 qrs. 10 lbs. 10 ozs.

EXERCISE 33.

- | A | B |
|--------------------------|----------------------------|
| (1) 10·054945 + minutes. | (1) 7½ minutes. |
| (2) 1¼ days. | (2) 13·064094 +. |
| (3) 1¼. | (3) 685·056. |
| (4) 528·387096 +. | (4) £12,000. |
| (5) £250. | (5) ·8335 or ¼; ·258 or ¼. |
| (6) 45 ; 24. | (6) £54 15s. 3·9d. |
| (7) £4 2s. 11·04d. | (7) 10,000,000 times. |
| (8) £1·6̇. | (8) ·01̇. |
| (9) ·0001̇. | (9) 1. |

EXERCISE 34.

- | A | B |
|--------------------|----------------------|
| (1) £5 2s. 4·72d. | (1) 11; 11. |
| (2) 32. | (2) 8½d. |
| (3) 1¼. | (3) 1¼. |
| (4) 5·6̇. | (4) ·103286 +. |
| (5) £13 9s. 3½d. | (5) £33 7s. 11·625d. |
| (6) £2 6s. 11·77d. | (6) £3 17s. 1·13d. |
| (7) ·5̇. | (7) ·125. |
| (8) £210. | (8) ·125. |
| (9) ·01775̇. | (9) £24 19s. 5½d. |
| (10) £·17. | (10) ·18906̇. |

SIMPLE PROPORTION.

EXERCISE 35.

- | A | B |
|-------------------------|------------------|
| (1) 32 men. | (1) 2s. 3½d. |
| (2) £21 19s. 3½d. each. | (2) £2 13s. 9d. |
| (3) 10s. 6d. | (3) £318 3s. 0d. |
| (4) £66 3s. 0d. | (4) 16s. 4d. |
| (5) £1 1s. 4½d. | (5) £4 2s. 6d. |
| (6) £20 16s. 8d. | (6) £43 0s. 5d. |
| (7) 363¼ lbs. | (7) 3½ days. |

EXERCISE 36.

- A**
- (1) 686 qrs. 7 bush.
 - (2) 379.
 - (3) £35 18s. 9d.
 - (4) £99 5s. 0d.
 - (5) 21 sheep.
 - (6) £54 18s. 0d.
 - (7) 63 cwt.
 - (8) £3,359 10s. $5\frac{1}{4}$ d.
 - (9) 15 hrs. 46 mins. 45 sec.

- B**
- (1) 720 miles.
 - (2) $283\frac{1}{2}$ miles.
 - (3) 252 men.
 - (4) £62 16s. 0d.
 - (5) £13 9s. 2d.
 - (6) $6\frac{3}{4}$ lbs.
 - (7) 390 men.
 - (8) 816 days.
 - (9) £77 19s. 0d.

SIMPLE PROPORTION WITH FRACTIONS.

EXERCISE 37.

- A**
- (1) £16 7s. 1d.
 - (2) £2,033 0s. $8\frac{1}{4}$ d.
 - (3) £49 4s. 8d.
 - (4) 168 miles 6 furlongs.
 - (5) £3 17s. 8d.
 - (6) £1,800.
 - (7) £5 12s. 6d.
 - (8) £142 10s. $8\frac{3}{8}\frac{1}{1}$ d.
 - (9) £4 13s. 4d.
 - (10) $15\frac{1}{4}$ lbs.

- B**
- (1) 7s. $10\frac{1}{2}$ d.
 - (2) £3 5s. $0\frac{1}{4}\frac{1}{4}$ d.
 - (3) £1,146 3s. $9\frac{1}{4}$ d.
 - (4) £12,648 11s. 3d.
 - (5) £15 8s. 0d.
 - (6) £208 5s. $8\frac{1}{4}$ d.
 - (7) £471 4s. $4\frac{3}{8}\frac{1}{4}$ d.
 - (8) $103\frac{3}{4}$ yards.
 - (9) 4677·5 yards.
 - (10) £18 18s. $4\frac{1}{4}$ d.

EXERCISE 38.

- A**
- (1) £13 4s. 0d.
 - (2) £1 5s. 0d.
 - (3) £3 6s. $11\frac{2}{7}\frac{2}{5}$ d.
 - (4) £14 7s. $2\frac{1}{2}$ d.
 - (5) £4 18s. $5\frac{1}{4}$ d.
 - (6) £1 5s. 0d.
 - (7) £13 19s. $3\frac{1}{4}$ d.
 - (8) $30\frac{3}{4}$ yards.
 - (9) £562 3s. 2 d.
 - (10) 5s. $10\frac{1}{4}$ d.

- B**
- (1) 2,625 guineas, or £2,756 5s.
 - (2) £286 16s. 4d.
 - (3) £59 14s. 8d.
 - (4) £46 13s. $7\frac{1}{4}$ d.
 - (5) £97 19s. $5\frac{1}{4}$ d.
 - (6) £2,250.
 - (7) ·369078 +.
 - (8) 2 days.
 - (9) 15s. $7\frac{1}{2}$ d.
 - (10) £13 0s. $3\frac{1}{4}$ d.

EXERCISE 39.

- A**
- (1) £15 5s. 10½d.
 - (2) 5½ days.
 - (3) 1½ hour.
 - (4) 6¼ hours.
 - (5) 1¼ week.
 - (6) 15 days.
 - (7) 7½ hours.

- B**
- (1) 1½ hour.
 - (2) 3½ hours.
 - (3) £13 14s. 11¼d.
 - (4) 45 men.
 - (5) 8 cwt. 3 qrs. 16½ lbs.
 - (6) 1988 ft.
 - (7) 200 acres.

SIMPLE INTEREST.

EXERCISE 40.

- A**
- (1) £40.
 - (2) £15.
 - (3) £60.
 - (4) £15.
 - (5) £29 5s.
 - (6) £6 15s.
 - (7) £151 4s.
 - (8) £30 Int., £280 Amt.
 - (9) £40 ,, £240 ,,
 - (10) £33 15s. Int., £408 15s. Amt.
 - (11) £25 1s. 6d. Int., £275 16s. 6d. Amt.
 - (12) £35 12s. 10½d. Int., £510 17s. 10½d. Amt.
 - (13) £90 1s. 2½d. Int., £840 11s. 2½d. Amt.
 - (14) £5 17s. 9¾d. Int., £93 2s. 9¾d. Amt.
 - (15) £11 7s. 2¼d. Int., £920 2s. 2¼d. Amt.

- B**
- (1) £60.
 - (2) £90.
 - (3) £52 10s.
 - (4) £134 11s. 8d.
 - (5) £163 2s. 6d.
 - (6) £52 10s.
 - (7) £75 12s.
 - (8) £36 Int., £336 Amt.
 - (9) £26 5s. Int., £276 5s.
 - (10) £73 2s. 9¼d. Int., £682 12s. 9¼d. Amt.
 - (11) £45 19s. 3¼d. Int., £406 9s. 3¼d. Amt.
 - (12) £47 12s. 6d. Int., £285 15s. Amt.
 - (13) £86 0s. 7½d. Int., £700 10s. 7½d. Amt.
 - (14) £55 17s. 9¼d. Int., £366 7s. 9¼d. Amt.
 - (15) £5 12s. 6¾d. Int., £755 17s. 6¾d. Amt.

EXERCISE 41.

- A**
- (1) £59 1s. 3d.
 - (2) £2 3s. 1¼d. or 3¼d.
 - (3) £550 17s 6¼d.
 - (4) £6 17s. 4.72d.

- B**
- (1) £15 12s. 6d.
 - (2) £8 4s. 3¼d.
 - (3) £635 6s. 9¼d. or 1¼d.
 - (4) £21 13s. 4¼d. or 3¼d.

EXERCISE 41.—Continued.

- A**
- (5) £959 6s. 10 $\frac{1}{4}$ d.
 - (6) £63 16s. 5 $\frac{1}{2}$ d.
 - (7) £334 4s. 10 $\frac{3}{4}$ d.
 - (8) £129 11s. 3 $\frac{3}{4}$ d.
 - (9) £1 10s. 7 $\frac{1}{2}$ d.

- B**
- (5) £188 13s. 9 $\frac{2}{3}$ d.
 - (6) £247 13s. 11 $\frac{1}{2}$ d.
 - (7) £629 9s. 8d.
 - (8) £9 15s. 3 $\frac{1}{2}$ d.
 - (9) £13 3s. 9 $\frac{1}{2}$ d.

INTEREST—TIME.

EXERCISE 42.

- A**
- (1) 2 years.
 - (2) 3 \cdot 49 + years.
 - (3) 3 $\frac{2}{3}$ 1 $\frac{1}{3}$ $\frac{1}{4}$ years.
 - (4) 1 month.
 - (5) 4 months.
 - (6) 2 $\frac{1}{3}$ $\frac{4}{8}$ $\frac{5}{8}$ $\frac{3}{8}$ years.
 - (7) 1 year.
 - (8) 5 years.
 - (9) 2 years 2 months.
 - (10) 5 years.
 - (11) 4 years.
 - (12) 8 years.

- B**
- (1) 5 years.
 - (2) 4 $\frac{1}{2}$ years.
 - (3) 6 $\frac{1}{3}$ $\frac{2}{3}$ $\frac{2}{3}$ $\frac{2}{3}$ years.
 - (4) 2 months.
 - (5) 5 months.
 - (6) 7 $\frac{2}{3}$ $\frac{2}{3}$ $\frac{1}{3}$ $\frac{1}{3}$ $\frac{7}{3}$ $\frac{2}{3}$ years.
 - (7) 1 $\frac{1}{2}$ years.
 - (8) 6 months.
 - (9) 1 year.
 - (10) 6 months.
 - (11) 1 $\frac{3}{4}$ years.
 - (12) 4 $\frac{1}{2}$ years.

INTEREST—RATE.

EXERCISE 43.

- A**
- (1) 5 per cent.
 - (2) 3 per cent.
 - (3) 6 $\frac{1}{2}$ per cent.
 - (4) 4 $\frac{1}{2}$ per cent.
 - (5) 3 $\frac{7}{8}$ per cent.
 - (6) 4 $\frac{1}{4}$ per cent.
 - (7) $\frac{7}{12}$ per cent.
 - (8) 2 $\frac{1}{3}$ $\frac{2}{3}$ $\frac{2}{3}$ $\frac{2}{3}$ per cent.
 - (9) 1 $\frac{2}{3}$ $\frac{1}{3}$ $\frac{2}{3}$ $\frac{2}{3}$ per cent.
 - (10) 3 $\frac{2}{3}$ $\frac{1}{3}$ $\frac{1}{3}$ per cent.
 - (11) 706 $\frac{1}{2}$ $\frac{2}{3}$ $\frac{2}{3}$ per cent.
 - (12) 8 $\frac{1}{3}$ $\frac{2}{3}$ $\frac{1}{3}$ $\frac{2}{3}$ per cent.
 - (13) 3 $\frac{1}{2}$ per cent.
 - (14) 6 per cent.

- B**
- (1) 5 per cent.
 - (2) 5 $\frac{1}{2}$ per cent.
 - (3) 4 $\frac{5}{8}$ per cent.
 - (4) 5 per cent.
 - (5) 4 $\frac{3}{8}$ per cent.
 - (6) 3 $\frac{3}{4}$ per cent.
 - (7) 23 $\frac{3}{10}$ $\frac{3}{10}$ per cent.
 - (8) $\frac{5}{10}$ $\frac{1}{10}$ $\frac{4}{10}$ $\frac{2}{10}$ per cent.
 - (9) 12 $\frac{5}{7}$ $\frac{6}{7}$ $\frac{6}{7}$ per cent.
 - (10) 51 $\frac{3}{8}$ $\frac{1}{8}$ $\frac{3}{8}$ $\frac{3}{8}$ per cent.
 - (11) 12 $\frac{1}{4}$ $\frac{2}{4}$ $\frac{5}{4}$ per cent.
 - (12) 14 $\frac{1}{7}$ $\frac{1}{7}$ $\frac{1}{7}$ per cent.
 - (13) 2 $\frac{1}{2}$ per cent.
 - (14) 6 per cent.

INTEREST—PRINCIPAL.**EXERCISE 44.****A**

- (1) £100.
- (2) £100.
- (3) £375.
- (4) £238 2s. 6d.
- (5) £908 15s. $1\frac{1}{4}$ d.
- (6) £1,006 2s. 11d.
- (7) £222 12s. $9\frac{1}{2}$ d.
- (8) £428 19s. $4\frac{2}{3}$ d.
- (9) £625.
- (10) £881 19s. $6\frac{2}{3}$ d.
- (11) £973 17s. $9\frac{1}{2}$ d.
- (12) £1,110 19s. $7\frac{5}{7}$ d.
- (13) £720.
- (14) £416 13s. 4d.

B

- (1) £100.
- (2) £100.
- (3) £475 5s.
- (4) £80 4s.
- (5) £657 13s. $8\frac{1}{16}\frac{2}{3}$ d.
- (6) £9735 16s.
- (7) £302 15s. $6\frac{2}{3}$ d.
- (8) £516 19s. $8\frac{1}{3}$ d.
- (9) £746 19s. $10\frac{1}{2}$ d.
- (10) £914.
- (11) £1,014 17s. $9\frac{1}{2}$ d.
- (12) £1,852 19s. $7\frac{1}{4}\frac{1}{2}$ d.
- (13) £2,737 10s.
- (14) £2,320 16s. 8d.

Miscellaneous Exercises in Simple Interest.**EXERCISE 45.****A**

- (1) £900.
- (2) 20 yrs.
- (3) 4 yrs.
- (4) 10 yrs.
- (5) 73 days.
- (6) 4 per cent.
- (7) 2 per cent.
- (8) £188 6s. 8d.
- (9) £468 16s. 0d.

B

- (1) £1,902 6s. $9\frac{1}{8}\frac{1}{2}$ d.
- (2) 3 yrs.
- (3) 5 yrs.
- (4) 20 yrs.
- (5) 50 yrs.
- (6) 2 per cent.
- (7) 20 per cent.
- (8) £1,216 15s. 5d.
- (9) £649 4s. 2d.

EXERCISE 46.**A**

- (1) 5 per cent.
- (2) £294 7s. 6d.
- (3) £266 2s. 11d.
- (4) $6\frac{1}{2}$ per cent.
- (5) $241\frac{2}{7}\frac{1}{16}\frac{2}{3}$ days.
- (6) £3,231 15s. 5d.
- (7) £26 12s. 0d.
- (8) £935 1s. $3\frac{2}{7}$ d.
- (9) £4,476 12s. 3d.

B

- (1) £54 15s. 0d.
- (2) £157 10s. 0d.
- (3) $4\frac{2}{3}$ per cent.
- (4) $3\frac{1}{2}$ years.
- (5) £288.
- (6) $8\frac{1}{2}$ years.
- (7) £82 17s. $1\frac{1}{2}$ d.
- (8) £699 5s. $3\frac{2}{7}$ d.
- (9) $4\frac{1}{2}$ per cent.

A N S W E R S

TO

The Quarterly Arithmetic.

STANDARD VII. COMPOUND PROPORTION.

EXERCISE 1.

A		B
(1) £92.		(1) £135.
(2) £31 9s. 4d.		(2) £37 10s. 0d.
(3) £972.		(3) £96.
(4) 16 days.		(4) £100.
(5) £20 13s. 0d.		(5) £2,109 7s. 6d.
(6) £40.		(6) £38 8s. 0d.

EXERCISE 2.

A		B
(1) 24 men.		(1) 4 days.
(2) 8 men.		(2) 40 days.
(3) 120 acres.		(3) 24 horses.
(4) 30 acres.		(4) 168 acres.
(5) $5\frac{1}{2}$ men.		(5) 225 acres.
(6) 27 days.		(6) 20 days.
(7) 480 acres.		(7) $3\frac{3}{4}$ acres.
(8) 8 men.		(8) £17 10s. 0d.
(9) 6 men.		(9) 250 days.

EXERCISE 3.

A		B
(1) 50 days.		(1) 30 acres.
(2) 10 horses.		(2) 15 horses.
(3) $107\frac{1}{8}$ men.		(3) 5 horses.
(4) 10 horses.		(4) 10 men.
(5) 12 men.		(5) 15 men.
(6) 8 horses.		(6) 14 men.
(7) 70 acres.		(7) 75 acres.
(8) 200 acres.		(8) 325 acres.
(9) 165 acres.		(9) 165 acres.

EXERCISE 4.

- | A | B |
|---|-----------------------------|
| (1) 648 men. | (1) 324 loaves. |
| (2) £448. | (2) $3\frac{5}{7}$ weeks. |
| (3) 12 men. | (3) $503\frac{1}{8}$ yards. |
| (4) £240. | (4) 9 weeks. |
| (5) $312\frac{1}{2}$ lbs. | (5) $22\frac{1}{2}$ miles. |
| (6) 13 men. | (6) 8 months. |
| (7) £6 $\frac{2}{3}$, or £6 13s. 4d. | (7) £14 3s. 4d. |
| (8) £15 12s. 6d. | (8) 36 months. |
| (9) 4 cwts. 3 qrs. $14\frac{7}{8}$ lbs. | (9) $10\frac{1}{2}$ weeks. |

EXERCISE 5.

- | A | B |
|---|----------------------------|
| (1) 60 men. | (1) 9 men. |
| (2) $11\cdot52\bar{6}$ acres. | (2) $51\frac{1}{7}$ acres. |
| (3) 11 men. | (3) £48. |
| (4) $80\frac{3}{5}$ acres or $80\cdot12$ acres. | (4) £7 16s. 3d. |
| (5) £15 17s. $8\frac{1}{2}$ d. | (5) £46 10s. 0d. |
| (6) £5 5s. $11\frac{1}{2}$ d. | (6) £114 6s. 0d. |
| (7) 9 days. | (7) £3 12s. 0d. |
| (8) £74 17s. $2\frac{3}{4}$ d. | (8) £200 0s. 0d. |
| (9) 40 days. | (9) 16 days. |

EXERCISE 6.

- | A | B |
|--------------------------------|---|
| (1) 4 lbs. 14 ozs. | (1) 96 tons 10 cwts. 2 qrs.
$18\frac{2}{3}$ lbs. |
| (2) £816 13s. 4d. | (2) $141\frac{1}{8}$ acres. |
| (3) 312 men. | (3) 12 days 18 hours. |
| (4) £138 4s. $0\frac{1}{2}$ d. | (4) 1,344 miles. |
| (5) £32. | (5) £5 4s. $5\frac{1}{3}$ d. |
| (6) 18 men. | (6) $366\frac{2}{7}$ yds. |
| (7) 9 horses. | (7) 27 men. |
| (8) 1 bushel. | (8) 14 hrs. 48 mins. $53\frac{1}{2}$ secs. |
| (9) £10 9s. $9\frac{7}{10}$ d. | (9) £10 2s. $2\frac{3}{4}$ d. |

EXERCISE 7.

- | A | B |
|--------------------------------|---------------------------------|
| (1) 9 lbs. $5\frac{1}{3}$ ozs. | (1) 8s. |
| (2) 4,500 gallons. | (2) 300 men. |
| (3) 2 lbs. $1\frac{1}{2}$ ozs. | (3) 208 acres. |
| (4) $75\frac{2}{3}$ miles. | (4) 17 lbs. $6\frac{1}{2}$ ozs. |
| (5) £123 3s. 9d. | (5) £288 6s. $2\frac{1}{2}$ d. |
| (6) $160\frac{1}{2}$ days. | (6) 5d. |

EXERCISE 8.

A	B
(1) 32 men.	(1) 16 men.
(2) 1,056 men.	(2) 3,125 men.
(3) 1s. $7\frac{3}{4}$ d.	(3) 363 men.
(4) $2\frac{1}{2}$ lbs.	(4) $106\frac{2}{3}$ days.

EXERCISE 9.

A	B
(1) $3,109\frac{1}{11}$ tons.	(1) 162 lbs.
(2) 11 days.	(2) $213\frac{1}{3}$ feet.
(3) £6 0s. $6\frac{6}{11}$ d.	(3) $19\frac{2}{5}$ days.
(4) 25,872 gallons.	(4) £97 7s. $4\frac{1}{2}$ d.
(5) $5\frac{1}{3}$ hours.	(5) $67\frac{1}{2}$ feet.

PROPORTIONAL PARTS.

EXERCISE 10.

A	B
(1) 30, 40, 50.	(1) 114, 171, 285.
(2) 804, 938, 1,072.	(2) 40, 60, 100.
(3) 750, 1,000, 1,500, 1,750.	(3) 742, 848, 954.
(4) 40, 80, 120.	(4) 40, 80, 120.
(5) £9 6s. 8d., £10 13s. 4d., £12, £13 6s. 8d., £14 13s. 4d.	(5) £1,166 13s. 4d., £2,100, £3,733 6s. 8d.
(6) £60 3s. 6d., £80 4s. 8d., £240 14s. 0d.	(6) £8. £16, £24, £32.
(7) 15, 20, 25.	(7) 6, $9\frac{2}{5}$, $14\frac{2}{5}$.
(8) 30, 40, 50.	(8) 8, 16, 24, 32.
(9) $18,450\frac{1}{3}$, $20,757\frac{1}{9}$, $23,063\frac{1}{3}$, $25,370\frac{1}{9}$.	(9) 12, 18.
(10) $155\frac{1}{3}$, $177\frac{1}{3}$, 200, $222\frac{2}{3}$, $244\frac{1}{3}$.	(10) £560, £420, £280.

EXERCISE 11.

A	B
(1) 210, 168.	(1) 108, 72, 54.
(2) £326 1s. $8\frac{2}{3}$ d., £130 8s. $8\frac{2}{3}$ d., £43 9s. $6\frac{1}{3}$ d.	(2) $26\frac{2}{11}$, $17\frac{5}{11}$, $16\frac{4}{11}$.
(3) 804, 603, 402.	(3) A £4,285 14s. $3\frac{1}{7}$ d., B £2,857 2s. $10\frac{1}{7}$ d., C £2,142 17s. $1\frac{1}{7}$ d., D £1,714 5s. $8\frac{1}{7}$ d.
(4) £4,285 14s. $3\frac{1}{7}$ d., £2,857 2s. $10\frac{1}{7}$ d., £2,142 17s. $1\frac{1}{7}$ d., £1,714 5s. $8\frac{1}{7}$ d.	(4) $1\frac{1}{2}$, $1\frac{1}{3}$, $2\frac{5}{6}$.

EXERCISE 11.—*Continued.*

- | A | B |
|---|--|
| (5) D £61 10s. 9 $\frac{2}{3}$ s, E £38 9s. 2 $\frac{1}{2}$ d. | (5) £36, £12, £16. |
| (6) A £98, B £56. | (6) A £18 15s. 0d., B £11 5s. 0d. |
| (7) £4,375, £2,625. | (7) £888 17s. 9 $\frac{1}{2}$ d., £1,333 6s. 8d., £1,777 15s. 6 $\frac{1}{2}$ d. |
| (8) £10 3s. 3d., £14 13s. 7d. | (8) A's £18 7s. 6d., B's £28 17s. 6d., C's £36 15s. 0d. |
| (9) A's £2,142 17s. 1 $\frac{1}{2}$ d., B's £1,428 11s. 5 $\frac{1}{2}$ d., C's £1,071 8s. 6 $\frac{1}{2}$ d., D's £857 2s. 10 $\frac{1}{2}$ d. | (9) 3, 3 $\frac{3}{4}$, 5 $\frac{1}{4}$. |

EXERCISE 12.

- | A | B |
|--|---|
| (1) 1 $\frac{1}{2}$ days. | (1) 2 $\frac{2}{3}$ days. |
| (2) 3 $\frac{1}{3}$ hours. | (2) 2 $\frac{3}{8}$ days. |
| (3) A £14,000; B £16,000; C £18,000. | (3) A £1,000; B £1,200. |
| (4) 30 days. | (4) 1 $\frac{1}{2}$ days. |
| (5) A £33 6s. 8d.; B £66 13s. 4d.; C £200. | (5) £135; £195; £255. |
| (6) £1,400, £2,475. | (6) A £3 2s. 6d.; B £2 12s. 6d.; C £6 15s. 0d. |
| (7) £72 3s. 9d.; £134 1s. 3d.; £175 6s. 3d.; £195 18s. 9d. | (7) £219 15s. 10d.; £314 1s. 3d.; £339 17s. 11d.; 8s. 4d. in the £. |

**PARTNERSHIP AND MISCELLANEOUS
EXAMPLES.**

EXERCISE 13.

- | A | B |
|---|---|
| (1) A £2,020 16s. 8d.; B £1,625; C £1,354 3s. 4d. | (1) A £40; B £60. |
| (2) A £240; B £210. | (2) £166 13s. 4d.; £133 6s. 8d. |
| (3) A £480; B £420. | (3) A £76; B £52. |
| (4) A £60; B £245; C £405. | (4) A £60; B £100; C £135. |
| (5) A £120; B £175; C £150. | (5) A £750; B £400. |
| (6) £15 10s. 6d.; £20 9s. 6d. | (6) £13 12s. 8 $\frac{2}{3}$ d.; £13 7s. 3 $\frac{1}{3}$ d. |

EXERCISE 14.

- | A | B |
|--|---|
| (1) A £6 5s. 0d. ; B £5 5s. 0d. ;
C £13 10s. 0d. | (1) A £11 5s. ; B £20 ; C £29
5s. |
| (2) A £20 5s. ; B £15 15s. ;
C £18. | (2) A £17 14s. 11 $\frac{1}{4}$ d. ; B £17 5s.
0 $\frac{1}{4}$ d. |
| (3) £117 8s. 6 $\frac{1}{2}$ d. ; £186 3s.
4 $\frac{1}{2}$ d. ; £214 2s. 2 $\frac{1}{2}$ d. | (3) A £1 15s. 10d. ; B £25 4s.
3d. ; C £9 19s. 2 $\frac{1}{2}$ d. ;
D £14 12s. 4 $\frac{1}{2}$ d. |
| (4) A £81 11s. 3d. ; B £156 7s.
6d. ; C £174 7s. 6d. | (4) A £179 8s. 8d. ; B £142 9s. ;
C £99 3s. 4d. |
| (5) 28 $\frac{1}{2}$ minutes. | (5) 1 $\frac{1}{2}$ hours. |
| (6) 50 minutes. | (6) 34 $\frac{1}{2}$ minutes. |

EXERCISE 15.

- | A | B |
|---|--|
| (1) A £36 ; B £12 ; C £16. | (1) A £5,000 ; B £3,750 ;
C £3,125. |
| (2) £220 16s. 8d. ; £191 13s.
4d. ; £300 ; £287 10s. | (2) £36 ; £12 ; £16. |
| (3) £48 9s. 2 $\frac{1}{3}$ d. ; £80 15s.
4 $\frac{2}{3}$ d. ; £129 4s. 7 $\frac{1}{3}$ d. ;
£161 10s. 9 $\frac{2}{3}$ d. | (3) Son, £1,644 7s. 6d. ; Wife,
£548 2s. 6d. ; Daughter,
£182 14s. 2d. |
| (4) £77 15s. 6 $\frac{2}{3}$ d. ; £155 11s.
1 $\frac{1}{3}$ d. ; £466 13s. 4d. | (4) A £384 ; B £336 ; C £280. |
| (5) A £540 ; B £756 ; C £810 ;
D £1,374. | (5) 500 yards. |
| (6) £71 8s. 6 $\frac{1}{2}$ d. ; £28 11s. 5 $\frac{1}{2}$ d. | (6) 5 hours ; 225 miles. |

AVERAGES.

EXERCISE 16.

- | A | B |
|------------------------|------------------------|
| (1) 5. | (1) 6. |
| (2) 15. | (2) 20. |
| (3) 21. | (3) 27. |
| (4) 27. | (4) 23. |
| (5) 21 $\frac{1}{4}$. | (5) 32 $\frac{1}{2}$. |
| (6) 303. | (6) 40. |
| (7) 36. | (7) 404. |
| (8) $\frac{1}{2}$. | (8) $\frac{1}{2}$. |
| (9) $\frac{1}{4}$. | (9) $\frac{11}{7}$. |
| (10) $\frac{1}{8}$. | (10) $\frac{7}{5}$. |
| (11) $\frac{3}{8}$. | (11) $\frac{5}{8}$. |
| (12) $\frac{7}{20}$. | (12) $\frac{107}{8}$. |
| (13) 3 $\frac{3}{8}$. | (13) 14. |
| (14) 1.4977. | (14) 31.740425. |

EXERCISE 17.

A

- (1) $\cdot 3725$.
- (2) $1\cdot 86568$.
- (3) $78\frac{2}{3}$.
- (4) $3s. 2\frac{1}{2}d.$
- (5) $\text{£}3 17s. 5\frac{1}{4}d.$
- (6) $\text{£}382 9s. 3\frac{1}{2}d.$
- (7) $3s. 5\frac{1}{8}d.$
- (8) 2 mls. 6 furs. 17 pls. 3 yds.
- (9) 1 ton 3 qrs. 9 lbs. 8 ozs.
- (10) 13 yrs. $1\frac{1}{3}$ mths.
- (11) 13 qrs. $5\frac{1}{2}$ bus.

B

- (1) $2\cdot 41375$.
- (2) $9\frac{2}{11}$.
- (3) $88\cdot 575$.
- (4) $4s. 2\frac{1}{8}d.$
- (5) $\text{£}5 13s. 7\frac{3}{10}d.$
- (6) $\text{£}925 2s. 8\frac{1}{2}d.$
- (7) $9\frac{7}{8}$ pence.
- (8) 8 cwts. 2 qrs. $10\frac{2}{3}$ lbs.
- (9) 272 chs. $1\frac{1}{2}$ yds.
- (10) 22 days 19 hrs. $22\frac{2}{3}$ mins.
- (11) 44 sq. yds. 3 sq. ft. 60 sq
incs.

EXERCISE 18.

A

- (1) $4s. 6\frac{2}{3}d.$
- (2) $5s. 2\frac{8}{11}d.$
- (3) $\text{£}7 2s. 0\frac{1}{2}d.$
- (4) $73s. 1\frac{1}{9}d.$
- (5) 4 tons 3 cwts. 3 qrs. $22\frac{2}{3}$ lbs.

B

- (1) $11s. 11\frac{1}{4}d.$
- (2) $9s. 9\frac{1}{11}d.$
- (3) $12s. 2\frac{1}{4}d.$
- (4) 34 yrs. $1\frac{1}{3}$ months.
- (5) $\text{£}1 3s. 10\frac{7}{13}d.$

EXERCISE 19.

A

- (1) $26\cdot 9625$.
- (2) 9.
- (3) $318\cdot 5$.
- (4) $8\frac{2}{3}d.$ per lb.
- (5) $\text{£}42 4s.$
- (6) $1s. 6\frac{2}{7}d.$
- (7) 5 ft. $9\frac{7}{8}\frac{0}{7}$ in.

B

- (1) $35\frac{2}{7}$.
- (2) $24\cdot 5$.
- (3) 233 yards.
- (4) 13 \cdot 48 yrs.
- (5) $\text{£}2 10s.$
- (6) $\text{£}1 14s. 8\frac{7}{16}d.$
- (7) 3 per cent.

EXERCISE 20.

A

- (1) $12\frac{1}{2}$.
- (2) 27 lbs. 11 ozs.
- (3) $11\frac{7}{8}$.
- (4) $\text{£}117 2s. 7\frac{4}{9}\frac{2}{1}$ d.
- (5) $\text{£}1 15s. 0\frac{3}{4}d.$
 $\text{£}10 16s. 3\frac{3}{10}d.$

B

- (1) $9\frac{1}{15}\frac{2}{9}$ years.
- (2) 75s.
- (3) 224.
- (4) $\text{£}4 1s. 9\frac{2}{11}d.$
- (5) 23s.
- (6) 1 hr. 44 mins. 55 secs.

EXERCISE 21.

A

- (1) 11 sts. 6 lbs.
- (2) 91 bush. 1 pk.
- (3) 2s. 7d. per lb.
- (4) 87 lbs. $9\frac{3}{8}$ ozs.
- (5) $5\frac{1}{2}$ d. per yard.
- (6) $2\frac{3}{8}$ days.

B

- (1) 115·5.
- (2) 2 mistakes.
- (3) 5 ft. $9\frac{1}{8}$ ins.
- (4) $6\frac{1}{2}$ d. per yd.
- (5) $22\frac{7}{10}$ years.
- (6) 4s $0\frac{3}{4}$ d.

EXERCISE 22.

A

- (1) £2,560 5s. 0d.
- (2) 2s. 3d.
- (3) 14,400 feet.
- (4) 6s. $8\frac{1}{4}$ d.
- (5) 1s. per dozen.
- (6) 2 gallons.

B

- (1) 6,874 letters.
- (2) £1 19s. 6d. over.
- (3) 94 ac. 2 rds. 15 per.
- (4) 26 mats.
- (5) 5 chains 21 yds. $2\frac{1}{2}$ feet.
- (6) £1 8s. $8\frac{1}{4}$ d.

EXERCISE 23.

A

- (1) 381 days.
- (2) 6d.
- (3) £2 7s. $4\frac{2}{3}$ d.
- (4) 255 ins.

B

- (1) 16s. $5\frac{1}{2}$ d.
- (2) $2\frac{1}{2}$ gallons.
- (3) 28·6497 +.
- (4) £4 5s. each.

PERCENTAGES.

EXERCISE 24.

A

- (1) 10 per cent.
- (2) 75 per cent.
- (3) $33\frac{1}{3}$ per cent.
- (4) $5\frac{1}{2}$ per cent.
- (5) 300 ; 39.
- (6) 36 ; 108.
- (7) 60 ; 22 ; 106.
- (8) 50 per cent.
- (9) $33\frac{1}{3}$ per cent.
- (10) $12\frac{1}{2}$ per cent.
- (11) $4\frac{1}{8}$ per cent.
- (12) $12\frac{1}{2}$ per cent.
- (13) $13\frac{3}{4}$ per cent.
- (14) $27\frac{1}{2}$ per cent.

B

- (1) 5 per cent.
- (2) $43\frac{3}{4}$ per cent.
- (3) $16\frac{2}{3}$ per cent.
- (4) $16\frac{2}{3}$ per cent.
- (5) 225 ; 78.
- (6) 45 ; 15.
- (7) 147 ; 21 ; 2,199.
- (8) 75 per cent.
- (9) 25 per cent.
- (10) $8\frac{1}{3}$ per cent.
- (11) 50 per cent.
- (12) $6\frac{1}{4}$ per cent.
- (13) $18\frac{3}{4}$ per cent.
- (14) 55 per cent.

EXERCISE 25.

- | A | B |
|---------------------------------|--------------------------------|
| (1) £10 ; £25. | (1) £35 ; £20. |
| (2) £40 ; £60. | (2) £30 ; £9 4s. |
| (3) £12 ; £13 10s. | (3) £24 ; £7 4s. |
| (4) £20 ; £15. | (4) £5 ; £11. |
| (5) £43 4s. 9d. | (5) £59 13s. 6d. |
| (6) £69 15s. ; £34 17s. 6d. | (6) £34 17s. 6d. ; £17 8s. 9d. |
| (7) £20. | (7) £25. |
| (8) £17 5s. 7½d. | (8) £7 14s. 2½d. |
| (9) £19 2s. 10½d. | (9) £24 13s. 0⅞d. |
| (10) £1 10s. 6d. ; £2 0s. 3d. | (10) 3s. ; 7½d. ; 10½d. |
| (11) £110 ; £33. | (11) £55 ; £22. |
| (12) 1s. 10d. ; 11d. ; 5½d. | (12) 2s. 9d. ; 1s. 4½d. 8¼d |
| (13) 140 ; 63 ; 28 ; 7. | (13) 175 ; 14 ; 84 ; 91. |
| (14) 5½d. ; 5s. 3d. ; 18s. 4½d. | (14) 7s. ; 3s. 6d. ; 10½d. |
| (15) £1 18s. 9d. | (15) £3 2s. 6d. |
| (16) £3 19s. 6d. | (16) £112 3s. 9d. |
| (17) £1 8s. 1½d. | (17) £6 16s. 3¼d. |
| (18) £12 18s. 3¾d. | (18) £197 3s. 9¾d. |

EXERCISE 26.

- | A | B |
|--|-------------------------------|
| (1) 60 per cent. | (1) 48 per cent. |
| (2) $53\frac{7}{8}$ per cent. | (2) 44 per cent. |
| (3) 102 children. | (3) 117 girls. |
| (4) $8\frac{1}{3}$ percentage. | (4) $112\frac{1}{2}$. |
| (5) 8 per cent. | (5) 100 girls. |
| (6) $24\frac{7}{8}\frac{8}{8}$ per cent. | (6) 92%, 88%, 80%. |
| (7) $48\frac{3}{4}$ per cent. | (7) $18\frac{2}{3}$ per cent. |
| (8) $95\frac{1}{2}$ per cent. | (8) $18\frac{8}{9}$ per cent. |
| (9) $17\frac{1}{2}$ per cent. | (9) $30\frac{5}{8}$ per cent. |

EXERCISE 27.

- | A | B |
|-------------------------------|--|
| (1) $73\frac{1}{3}$ per cent. | (1) $3\frac{3}{4}$ per cent. |
| (2) $38\frac{8}{9}$ per cent. | (2) $24\frac{7}{8}\frac{8}{8}$ per cent. |
| (3) $83\frac{1}{3}$ per cent. | (3) $11\frac{2}{3}$ per cent. |
| (4) £12 10s. 3d. | (4) $3\frac{2}{3}$ d. |
| (5) £43 14s. 0d. | (5) $9\frac{1}{11}$ per cent. |
| (6) £36 8s. 0d. | (6) $18\frac{2}{3}$ per cent. |
| (7) $15\frac{1}{3}$ per cent. | (7) $28\frac{2}{3}$ per cent. |
| (8) $12\frac{1}{2}$ per cent. | (8) 7s. 7½d. |

EXERCISE 28.

- A**
- (1) 12 per cent.
 - (2) £717 15s. 0d.
 - (3) 9s. 4½d.
 - (4) 9s. 3¾d.
 - (5) 5 per cent.
 - (6) £1 10s. 2⁷/₁₀₀d.
 - (7) £80 7s. 1¾d.
 - (8) 287 children.

- B**
- (1) 14 per cent.
 - (2) 2s. 1d.
 - (3) £68.
 - (4) £202 9s. 6d.
 - (5) 91²/₃; 87¹/₂; 85⁵/₁₂.
 - (6) £5 8s. 9d.
 - (7) 3s. 8d.
 - (8) Percentage of copper = 59¹/₂,
percentage of tin = 35³/₄,
percentage of zinc = 5.

EXERCISE 29.

- A**
- (1) £1 1s. 9d.
 - (2) 3s. 10d.
 - (3) £94 18s. 0d.
 - (4) 12¹/₇ per cent.
 - (5) 25 per cent.
 - (6) 25 per cent.
 - (7) £2.
 - (8) 9975.

- B**
- (1) 34²/₃ per cent. gain.
 - (2) 405.
 - (3) £43 1s. 0d.
 - (4) 4s. 2d.
 - (5) £9 2s. 4¹/₂d.
 - (6) £1 4s. 4²/₁₁d.
 - (7) £3 3s. 11¹/₄d.
 - (8) £1146.

EXERCISE 30.

- A**
- (1) 26⁷/₈ per cent.
 - (2) £207 7s. 9d.
 - (3) 75¹/₂ per cent. of spirit and
24²/₃ p. c. of water.
 - (4) 4s.
 - (5) 6s. 6⁶/₂₃d.
 - (6) 54,444.
 - (7) 16s. 6d.
 - (8) 87,500.

- B**
- (1) £3,827.
 - (2) 55.38 galls.
 - (3) 3s. 8d.
 - (4) £1 11s. 2²/₅d.
 - (5) £1,674 4s. 0d.
 - (6) 7²/₁₃ p. c.
 - (7) 5s. 5¹/₂d.
 - (8) 21⁶/₇₁.

EXERCISE 31.

- A**
- (1) £24 2s. 6d.
 - (2) 7²/₃ per cent.
 - (3) 7¹/₂d.
 - (4) £15 18s. 0d.

- B**
- (1) 17s. 11¹/₂²/₁₀₀d.
 - (2) 3¹/₈³/₁₀₀d.
 - (3) £29 14s. 8²/₃³/₁₀₀d.
 - (4) £2 10s. 0d.

EXERCISE 31.—*Continued.*

A

- (5) £350.
 (6) £28 13s. 7½d.
 (7) 43¼ per cent.
 (8) 40 per cent.
 (9) 18s. 9d.

B

- (5) £2,692 7s. 11¼d.
 (6) 8s. 9½d.
 (7) 4s. 5¼d.
 (8) £1,825.
 (9) 85⅝ per cent.

EXERCISE 32.

A

- (1) 5s. 10d.
 (2) 2s.
 (3) £15 6s. 0d.
 (4) £55.
 (5) 8 per cent.
 (6) £825 8s. 8⅔d.
 (7) £2,000.
 (8) £37 10s. 0d.

B

- (1) 76⅓ gallons.
 (2) £10 5s. 4d.
 (3) £23 11s. 9d.
 (4) £82 6s. 4⅓d.
 (5) 4,250.
 (6) 23⅙⅓ per cent.
 (7) £96 9s. 8½d.
 (8) £70 ; £490.

EXERCISE 33.

A

- (1) 7s.
 (2) £1 1s. 2⅔d.
 (3) £27 10s. 0d.
 (4) £1 2s. 6d.
 (5) £16 11s. 6⅓d.
 (6) 7s. 7⅓d.
 (7) £99 15s. 4⅓d.
 (8) 1⅔ per cent.
 (9) 15 per cent.

B

- (1) 18s. 9d. per gallon.
 (2) £2,926.
 (3) 18⅔ per cent.
 (4) 25 per cent.
 (5) £404 8s. 10⅓d.
 (6) £21 8s. 6⅔d.
 (7) 10⅓d.
 (8) 3½ per cent. loss.
 (9) 5 per cent. loss.

EXERCISE 34.

A

- (1) 2s. 9d.
 (2) 53s. 9d.
 (3) 13s. 0¼d.
 (4) 3s. 1⅓d.
 (5) £37 16s. 0d.
 (6) 392.
 (7) (1) .045, (2) 2.
 (8) 3⅓ per cent.

B

- (1) £1.
 (2) 14s. 9d.
 (3) £126.
 (4) 72s.
 (5) £72.
 (6) 4s. 1½d.
 (7) ½d. each.
 (8) 426,250.

Miscellaneous Examples in Percentages, Commission, Brokerage, Insurance, and Profit and Loss.

EXERCISE 35.

- | A | B |
|--------------------|---|
| (1) 11s. 2½d. | (1) £7 16s. 8d. |
| (2) 10s. 5d. | (2) £2 12s. 6d. total gain ; 6¼ per cent. |
| (3) 6s. 8d. | (3) 50 per cent. |
| (4) 14¼s. | (4) £1 5s. 0d. |
| (5) 8½d. | (5) 66⅔ per cent. |
| (6) 10 per cent. | (6) £19 11s. 1d. |
| (7) £2,531 5s. 0d. | (7) £12,837 10s. 0d. |
| (8) £41 13s. 7½d. | (8) £2 10s. 7½d. |

EXERCISE 36.

- | A | B |
|-------------------------|---------------------|
| (1) 17⅔. | (1) £350. |
| (2) £28 1s. 0d. | (2) 3⅓ per cent. |
| (3) 21⅓ per cent. | (3) 33⅓ per cent. |
| (4) £1 13s. 9d. | (4) 6s. 8¼d. |
| (5) £9 10s. 0d. | (5) 16⅔ per cent. |
| (6) £75. | (6) 24⅔ p. c. loss. |
| (7) 15s. | (7) 1 per cent. |
| (8) 1s. 4½d. | (8) £14 7s. 6d. |
| (9) 24⅔ per cent. loss. | (9) 60 per cent. |

EXERCISE 37.

- | A | B |
|------------------|---------------------|
| (1) 55,566. | (1) 1⅞ per cent. |
| (2) £45. | (2) 13s. 1½d. |
| (3) 12s. 8d. | (3) 62s. 8d. |
| (4) 16 per cent. | (4) £5,010 10s. 0d. |
| (5) 120,000. | (5) £360. |
| (6) 21⅞. | (6) 18s. 4d. |

EXERCISE 38.

- | A | B |
|-------------------------------|--------------------------|
| (1) 87½ per cent., £1 1s. 0d. | (1) £262 10s. |
| (2) 200 gallons. | (2) £3 9s. 4½d. |
| (3) £10 10s. 0d. | (3) 2⅓ per cent. |
| (4) 18⅔ per cent. gain. | (4) 3s. 3d. |
| (5) £993 4s. 6d. | (5) Loss of £20. |
| (6) 1s. 3d. | (6) £17 12s. 4½d., £546. |

EXERCISE 39

- A**
- (1) £26,613 6s. 8d.
 - (2) £82 10s. 0d.
 - (3) £208.
 - (4) 1,255 tons.
 - (5) 50 gallons.
 - (6) £377 8s.

- B**
- (1) 579 sheep.
 - (2) $8\frac{14}{100}\frac{8}{100}$ per cent.
 - (3) 34,877, or $\frac{2589}{20143}$.
 - (4) 362 (1·9).
 - (5) £15 6s. 7d.
 - (6) £382.

SIMPLE AND COMPOUND RULES.

EXERCISE 40.

- A**
- (1) 19,208,081.
 - (2) 6,075 yards.
 - (3) 841,525.
 - (4) £730 16s.
 - (5) £37 5s. 3d.

- B**
- (1) 946,196.
 - (2) 372,547.
 - (3) 17 dys. 4 hrs. 20 mins.
 - (4) 2,120 acres.
 - (5) 120 lbs.

EXERCISE 41.

- A**
- (1) 6 lbs.
 - (2) $40\frac{1}{2}$ scores.
 - (3) 1,120 half-guineas.
 - (4) 90 guineas 10s. ; 2,814
h. crowns.
 - (5) 516.
 - (6) 15s.
 - (7) 2s. $11\frac{1}{4}$ d.
 - (8) £1 0s. 6d.
 - (9) 24 weeks.
 - (10) £3 1s. $6\frac{3}{4}$ d.

- B**
- (1) $276\frac{1}{4}$ lbs.
 - (2) £524 12s. 10d.
 - (3) 1,250 times.
 - (4) 1,250 crowns 2s. ; 27,750
fourpenny pieces.
 - (5) £2 3s. $11\frac{1}{2}$ d.
 - (6) $2\frac{1}{4}$ d.
 - (7) 9s. 6d.
 - (8) £69 7s. 6d.
 - (9) 2s. 4d.
 - (10) £50 8s.

WEIGHT AND MEASURES.

EXERCISE 42.

- A**
- (1) 2 tons 15 cwts. 1 qr. 23 lbs.
 - (2) 1 ft. $10\frac{1}{4}$ ins.
 - (3) 24 seconds.
 - (4) 12 ozs.
 - (5) 16 cwts. 1 qr. 18 lbs.
 - (6) 9d.
 - (7) 341 tons 15 cwts. 3 qrs. 7 lbs.
 - (8) 1 yd. 1 ft. 1 inch.

- B**
- (1) 13 cwts. 16 lbs.
 - (2) 1 hr. 27 mins. 30 secs.
 - (3) 3,584 mls. 6 furs. 25 pls.
 - (4) 17 rows.
 - (5) 5,204 gals. 1 qt.
 - (6) 20,655,360 inches.
 - (7) 605 ; 660.
 - (8) 6 furs. 5 yds.

EXERCISE 43.

- | A | B |
|---|---|
| (1) 13 cwts. 1 qr. 3 lbs. 15 ozs. | (1) 2 tons 11 cwts. 2 qrs. 4 lbs.
4 ozs. |
| (2) 2,747 yards. | (2) 4 cwts. 27 lbs. |
| (3) 2 mls. 4 furs. 4 pls. 1 yd. 1 ft. | (3) £5 17s. 9d. |
| (4) 7 lbs. 8 ozs. | (4) 130 qrs. 6 bush. 3 pks. |
| (5) 320 times. | (5) 192 times. |
| (6) 18,720 times. | (6) 6 lbs. $6\frac{1}{9}$ ozs. |
| (7) 140 plots. | (7) 14 cwts. 2 qrs. 11 lbs. |
| (8) 493 yards. | (8) 97 packages. |
| (9) 92 mls. 2 pls. 5 yds. 2 ft.
10 incs. | (9) 47 tons 12 cwts. 26 lbs. 11 ozs. |
| (10) 5,067 gals. $1\frac{1}{2}$ pts. | (10) 5 tons 12 cwts. 1 qr. 14 lbs. |

PRACTICE, BILLS, AND PROPORTION.

EXERCISE 44.

- | A | B |
|---------------------------------------|------------------------------------|
| (1) £63,915 13s. $10\frac{1}{2}$ d. | (1) £61,391 17s. $2\frac{1}{4}$ d. |
| (2) £827 1s. $5\frac{1}{4}$ d. | (2) £55,485 13s. 9d. |
| (3) £377 7s. $3\frac{3}{4}$ d. | (3) £2,683 0s. $9\frac{9}{16}$ d. |
| (4) £4,002 2s. $4\frac{3}{4}$ d. | (4) £19,872 6s. $1\frac{1}{2}$ d. |
| (5) £5,334 11s. $9\frac{3}{4}$ d. | (5) £2,257 10s. 0d. |
| (6) £1,264 1s. $10\frac{1}{2}$ d. | (6) £2,406 4s. $3\frac{1}{4}$ d. |
| (7) £910 19s. $2\frac{5}{8}$ d. | (7) £493 7s. $8\frac{1}{4}$ d. |
| (8) £839 14s. $4\frac{1}{2}$ d. | (8) £2,493 4s. $3\frac{3}{8}$ d. |
| (9) £20 13s. 5d. | (9) £3 19s. $6\frac{3}{4}$ d. |
| (10) £105 4s. $7\frac{3}{8}$ d. | (10) £29 16s. $7\frac{1}{4}$ d. |
| (11) £345,847 13s. $2\frac{7}{16}$ d. | (11) 15s. $5\frac{5}{8}$ d. |
| (12) £8,095 4s. $2\frac{1}{4}$ d. | (12) £490 10s. 10d. |

EXERCISE 45.

- | A | B |
|----------------------------------|----------------------------------|
| (1) £6 10s. $1\frac{1}{4}$ d. | (1) £2 11s. $5\frac{1}{2}$ d. |
| (2) £23 19s. 6d. | (2) £2 15s. $5\frac{3}{4}$ d. |
| (3) £16 9s. 8d. | (3) £186 14s. $1\frac{1}{4}$ d. |
| (4) $555\frac{497}{1880}$ yards. | (4) £95 16s. $11\frac{1}{8}$ d. |
| (5) £3 19s. $5\frac{3}{4}$ d. | (5) £140. |
| (6) £16 10s. $8\frac{3}{8}$ d. | (6) 21 tons 1 cwt, 1 qr. 24 lbs. |
| (7) £26 18s. 4d. | (7) 7s. $10\frac{1}{2}$ d. |

VULGAR AND DECIMAL FRACTIONS.

EXERCISE 46.

- | | | | |
|----------------------------|---------------------------|--|------------------------------|
| A | | B | |
| (1) $11\frac{220}{1000}$. | (6) $\frac{8}{17}$. | (1) $56\frac{1}{3}$. | (6) $8\frac{277}{1000}$. |
| (2) 73. | (7) $6\frac{651}{2432}$. | (2) 42. | (7) $14\frac{2}{3}$. |
| (3) $\frac{31}{400}$. | (8) $2\frac{67}{100}$. | (3) $5\frac{1}{3}$ times. | (8) $13\frac{2}{3}$. |
| (4) $5\frac{220}{1000}$. | (9) $\frac{175}{38578}$. | (4) $5\frac{2}{3}$. | (9) $3\frac{27}{100}$. |
| (5) $1\frac{2}{80}$. | (10) $\frac{15}{212}$. | (5) $87\frac{74}{100}$. | (10) $17\frac{22}{100}$ yds. |
| (11) $4\frac{73}{100}$. | | (11) $\frac{6}{10}$; $\frac{1}{10}$. | |

EXERCISE 47.

- | | | | |
|---|--|----------|--|
| A | | B | |
| (1) $55\frac{2}{3}$. | (1) 3 tons 2 cwts. 1 qr. $14\frac{6}{11}$ lbs. | | |
| (2) $\frac{1}{25}$ of a day by 6 mins. $10\frac{2}{3}$ secs. | (2) 5s. 3d. | | |
| (3) 2 days $14\frac{1}{2}$ hours. | (3) 84 parcels. | | |
| (4) $\frac{1}{2}$ of a guinea, $\frac{1}{4}$ of £, $\frac{1}{4}$ of 3s. $9\frac{1}{2}$ d. | (4) $112\frac{1}{2}$ cubic feet. | | |
| (5) 4s. 6d. | (5) 5s. $9\frac{1}{2}$ d. | | |
| (6) 180 persons. | (6) 16s. $10\frac{2}{3}$ d. | | |
| (7) £480. | (7) £1 17s. 6d. | | |
| (8) £1 13s. $5\frac{1}{2}$ d. | (8) £4 6s. 6d. | | |
| (9) £18 7s. 6d. | (9) £42 13s. $1\frac{2}{3}$ d. | | |
| (10) £13 0s. $7\frac{1}{2}$ d. | (10) £67 1s. 1d. | | |
| (11) £200. | (11) £1 3s. 10d. | | |

EXERCISE 48.

- | | | | |
|--|---|----------|--|
| A | | B | |
| (1) £20 17s. $10\frac{1}{2}$ d. | (1) $\frac{10}{100}$. | | |
| (2) £90. | (2) £4 16s. | | |
| (3) M land 3 rds. 24 pls.; A land 2 rds. 30 pls. | (3) $10\frac{1}{2}$ hours. | | |
| (4) $\frac{2}{7}$. | (4) 300 gallons. | | |
| (5) £1 8s. $7\frac{1}{11}$ d. | (5) A $\frac{5}{8}$, B $\frac{1}{3}$, C $\frac{1}{4}$. | | |
| (6) £1 13s. $7\frac{1}{2}$ d. | (6) $1\frac{3}{7}$ hours. | | |
| (7) $28\frac{2}{3}$ days. | (7) $\frac{7}{10}$. | | |
| (8) $3\frac{1}{2}$ days. | (8) $\frac{1}{10}$. | | |

EXERCISE 49.

A

- (1) $\frac{2}{9}$; $\frac{5}{99}$; $\frac{2}{11}$; $\frac{31}{198}$; $\frac{595}{38}$ or $19\frac{11}{38}$.
- (2) $\cdot 01\dot{6}$; $\cdot 02\dot{7}$.
- (3) $\cdot 040625$.
- (4) $\cdot 00003140625$.
- (5) $41\cdot 24\dot{6}\dot{3}$.
- (6) $\cdot 03068$.
- (7) £65 4s. 2d.
- (8) $\frac{11}{9}$.
- (9) £7,780.
- (10) $1\cdot 0\dot{6}$.

B

- (1) $\frac{307}{1000}$; $\frac{1271}{990}$; $1\frac{17}{75}$.
- (2) $\cdot 1\dot{6}$.
- (3) $\cdot 002291\dot{6}$.
- (4) $\cdot 40625$; $\cdot 20\dot{4}\dot{5}$.
- (5) $7\cdot 586$; $\frac{131}{100}$.
- (6) $\frac{3751}{8000}$ d.
- (7) £1 13s. $11\frac{1247}{1250}$ d. or $\cdot 999904$; $\cdot 16\dot{3}$.
- (8) $3\frac{3}{4}$ d.
- (9) £18 15s. $4\frac{1}{2}$ d.; £46 12s. $11\frac{1}{4}$ d.
- (10) $\cdot 05\dot{1}$.

Simple Interest, Averages, and Percentages.

EXERCISE 50.

A

- (1) £107 10s.
- (2) £14 12s. $2\frac{1}{4}$ d.
- (3) £3 6s. $5\frac{2}{3}$ d.
- (4) £719 7s. 6d.
- (5) £959 13s. $8\frac{432}{1250}$ d.
- (6) 4 years.
- (7) $3\frac{3}{4}$ per cent.
- (8) £1,604 5s.
- (9) 80 years; 16 years.

B

- (1) £8 10s. $5\frac{5}{8}$ d.
- (2) £89 0s. $9\frac{6}{7}$ d.
- (3) £32 7s. $5\frac{287}{305}$ d.
- (4) £684 16s. $0\frac{2}{13}$ d.
- (5) £269 9s. $7\frac{2}{5}$ d.
- (6) $4\frac{1}{2}$ years.
- (7) 5 per cent.
- (8) £4,562 10s.
- (9) $6\frac{2}{5}$ years.

EXERCISE 51.

A

- (1) $4\frac{1}{2}$ d.
- (2) $2\frac{1}{2}$ per cent. more.
- (3) $7\frac{2}{3}$ per cent.
- (4) 600 males, 350 females,
1,050 children.
- (5) Sherry, 5s.; ale, 4d.

B

- (1) $1\frac{1}{2}$ d.
- (2) $27\frac{1}{2}$ per cent. 8s. 8d.
- (3) 17 tons 2 cwts.
- (4) 123 children.
- (5) $532\frac{1}{4}$ gallons.

EXTRA STANDARD WORK.

COMPOUND INTEREST.

EXERCISE 52.

A

- (1) £12 3s. 7½d.
- (2) £15 14s. 1¾d. +.
- (3) £24 7s. 2¾d.
- (4) £60 17s. 7½d.
- (5) £217 10s. 5¾d.
- (6) £144 18s. 4¼d. +.
- (7) £24 18s. 4¾d. +.
- (8) £74 14s. 10½d. +.
- (9) £125 11s. 8½d.
- (10) £224 19s. 6¼d. +.
- (11) £486 2s. 1¾d. +
- (12) £893 8s. 4d.

B

- (1) £36 10s. 9¾d.
- (2) £47 2s. 5½¾d.
- (3) £31 8s. 3¾d. +.
- (4) £30 8s. 9¾d.
- (5) £108 15s. 2⅞d.
- (6) £72 9s. 2¼d.
- (7) £36 12s. 8½d.
- (8) £36 12s. 8½d.
- (9) £220 15s. 7d.
- (10) £337 9s. 2⅞d.
- (11) £513 12s. 8d. +.
- (12) £670 1s. 3d.

EXERCISE 53.

A

- (1) £48 14s. 11d.
- (2) £893 8s. 4½d.
- (3) £3,603 6s. 7¾d.
- (4) 2s. 1d.
- (5) S. J. £450, C. J. £484 11s. 10½d.
- (6) £666 13s. 4d.
- (7) 2s. 1d.
- (8) £1,000.

B

- (1) £163 4s.
- (2) £909 11s. 3d.
- (3) £100 13s. 8½d. +.
- (4) 4s. 9⅞¾d.
- (5) £7 12s. 6d.
- (6) £2,807 14s. 4¾d. +.
- (7) A's the better by £82 17s. 6d.
- (8) £500.

MENSURATION OF SURFACES.

EXERCISE 54.

A

- (1) 196 sq. yds.
- (2) 756 sq. yds. 2 ft. 36 ins.
- (3) 113 sq. yds. 7 ft.
- (4) 348 sq. yds. 4 ft.
- (5) 14 sq. yds. 2 ft. 64 ins.
- (6) 73 sq. yds. 6 ft. 9 ins.

B

- (1) 576 sq. yds.
- (2) 915 sq. yds. 0 ft. 81 ins.
- (3) 152 sq. yds. 1 ft.
- (4) 413 sq. yds. 4 feet.
- (5) 34 sq. yds. 6 ft. 16 ins.
- (6) 213 sq. yds. 4 ft. 52 ins.

EXERCISE 54.—*Continued.*

- | A | B |
|--------------------------------|--------------------------|
| (7) 34 sq. yds. | (7) 63 sq. yds. 5 ft. |
| (8) 127 sq. yds. 4 ft. | (8) 180 sq. yds. 4 ft. |
| (9) 7 sq. yds. 8 ft. 108 ins. | (9) 16 sq. yds. 96 ins. |
| (10) 24 sq. yds. 1 ft. 80 ins. | (10) 59 sq. yds. 87 ins. |
| (11) 38 yds. | (11) 38 yds. |
| (12) 88 yds. | (12) 46 yds. 2 ft. |
| (13) 88 yds. 2 ft. | (13) 81 yds. 27 ins. |

EXERCISE 55.

- | A | B |
|-------------------------------|--------------------------------|
| (1) £30 1s. 3d. | (1) £5 17s. $11\frac{5}{8}$ d. |
| (2) £23 11s. 9d. | (2) £12 19s. $9\frac{3}{8}$ d. |
| (3) £4 6s. 11d. | (3) £5 2s. $9\frac{1}{2}$ d. |
| (4) 109 yards 1 ft. | (4) £10 10s. |
| (5) £11 4s. 6d. | (5) 180 yards 1 ft. 4 ins. |
| (6) £5 0s. $10\frac{3}{4}$ d. | (6) £4 14s. $5\frac{1}{3}$ d. |
| (7) 11,520 bricks. | (7) 64 tons 9 cwts. 7 lbs. |

