

**THE SCIENCE AND ART OF
ARITHMETIC; FOR THE USE
OF SCHOOLS. PART I.
INTEGRAL**

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The science and art of arithmetic; for the Use of Schools. Part I. Integral by A. Sonnenschein & H. A. Nesbitt

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A. SONNENSCHNEIN & H. A. NESBITT

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ARITHMETIC; FOR THE USE
OF SCHOOLS. PART I.
INTEGRAL**

THE SCIENCE AND ART
OF
ARITHMETIC;
For the Use of Schools.

PART I. INTEGRAL.

BY
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AND
H. A. NESBITT, M.A., UNIV. COLL., LONDON.

ANSWERS TO THE EXERCISES
IN THE SECOND EDITION

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III.

- (1) 2412. (2) 92678. (3) 48064. (4) 68823. (5) 18873. (6) 184684.
 (7) 1769557. (8) 358182. (9) 2995985. (10) 8142854. (11) 20287920.
 (12) 71923512. (13) 8888888889. (14) 17105706. (15) 48743161. (16) 55636920.
 (17) 64111192. (18) 110389. (19) 7654321. (20) 44504218.

IV.

- (1) 340 marbles. (2) 237 pupils. (3) 929 chapters; 1189 chapters. (4) 2265 years.
 (5) £80. 18s. 2d. (6) £485. 19s. 10d. (7) £21716. (8) 12 animals; £78. 12s. 9d.
 (9) 220 lambs, 149 oxen, 581 sheep, 123 cows, 66 horses, 68 pigs, 27 calves; 1234 animals in all.

V.

- (1) £39093. 7s. 6½d. (2) £29151. 9s. 1½d. (3) 772725143. (4) 370749464.

VI.

- (1) £242. 2s. 1d. (2) £123. 14s. 7d. (3) £33314. 5s. 6d. (4) £7782. 6s. 8d.
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 16s. 11½d. (9) £708. 9s. 1½d. (10) £81335. 14s. 8½d. (11) £263233. 7s. 2½d.

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 (15) £68. 13s. 3¾d. (16) £194. 19s. 0¾d. (17) ¼d. (18) £45983. 12s. 5d.
 (19) £182. 1s. 1¾d. (20) £7203. 2s. 9¼d.

VII.

- (1) 611514. (2) 411116. (3) 311779. (4) 167288. (5) 234859. (6) 40883.
 (7) 3289763. (8) 2690908. (9) 1. (10) 291710. (11) 428571. (12) 277594.
 (13) 98766. (14) 405677. (15) 183462. (16) 131335. (17) 187879. (18) 492477.
 (19) 4716931. (20) 88989.

VIII.

- (1) 124974; £7914. 2s. 5¾d. (2) 601954; £33227. 8s. 8¼d. (3) £21. 6s. 2¾d;
 4609. (4) £26497. 10s. 9d.; 37682. (5) £7305. 14s. 10¾d.; 100192. (6) 28°.
 (7) £13497. 1s. 6¼d. loss. (8) 35 girls. (9) 16 years; 26 years; 26 years.
 (10) 5 a.m.; 11 p.m.; 8 p.m.; 11 a.m.

IX.

- (1) 7 persons. (2) 12 abars. (3) 8 times. (4) 8 heaps and 52 marbles over.
 (5) 7 days. (6) 9 strips and 7 yards over.

X.

- (1) a. 58; 69; 147; 294; 1096; 1804; 1519; 1100; 909; 1869.
 b. VI; IV; XI; XXIX; CXLIV; DCLXVI; MCCII; MCKLIV; MCCCXCIX;
 MCCCXXIV. (2) a. One thousand and eight; thirteen thousand and fifteen;
 seven millions, 12 thousand and nine; four millions, two hundred and twenty-six
 thousand, eight hundred and forty-three; sixty millions, six hundred and six
 thousand and sixty; nine hundred and eighty-seven millions, six hundred and
 fifty-four thousand, three hundred and twenty-one; forty-two thousand, one hun-
 dred and five; twenty-four thousand, one hundred and fifty; one hundred and
 sixteen thousand and one; one hundred and ten thousand and sixty-one.
 b. 5040; 12012; 1212; 13212; 13014015; 58000000; 20365019; 50050;
 500050; 1001010. (3) Three million, fifty-two thousand, six hundred and four
 UNITS; or three hundred and five thousand, two hundred and sixty TENS and 4
 units over, wanting six units to make three hundred and five thousand, two
 hundred and sixty-one TENS; or thirty thousand, five hundred and twenty-six
 HUNDREDS and four units over, wanting ninety-six units to make thirty thousand,
 five hundred and twenty-seven HUNDREDS; or three thousand and fifty-two THOU-
 SANDS and six hundred and four units over, wanting three hundred and ninety-six
 units to make three thousand and fifty-three THOUSANDS; or three hundred and five
 TEN-THOUSANDS (myriads) and two thousand, six hundred and four units over,
 wanting seven thousand, three hundred and ninety-six units to make three hun-
 dred and six TEN-THOUSANDS; or thirty HUNDRED-THOUSANDS (lacs) and fifty-
 two thousand, six hundred and four units over, wanting forty-seven thousand,
 three hundred and ninety-six units to make thirty-one HUNDRED-THOUSANDS; or
 three MILLIONS and fifty-two thousand, six hundred and four units over, wanting
 nine hundred and forty-seven thousand, three hundred and ninety-six units to
 make four MILLIONS. (4) A.D. 849. (5) A.D. 1087. (6) 36 miles. (7) 370

miles. (8) A.D. 1805. (9) 2018. (10) 1998. (11) Monday, £456. 18s. 9d.; Tuesday, £1019. 16s. 8d.; Wednesday, £563. 2s. 6d.; Thursday, £0; Friday, £145. 17s. 6d.; Saturday, £680. 10s. 3d. (12) £145. 15s. 10d. (13) £1. 13s. 4d. (14) 6 weeks and 2s. 6d. over; £2. 7s. 1d. (15) 12 months and five days over. (16) 32811 soldiers. (17) August 1. (18) Half-past eleven. (19) Twenty minutes past twelve. (20) 8 years. (21) 6 times. (22) £3. 11s. 9d. (23) £687. 10s. (24) Tom has one marble more than John. (25) The Tory had a majority of 32 votes.

XI. (a).

(1) £491. 7s. 2½d. (2) 384 miles. (3) 1752 soldiers. (4) £31. 15s. (5) 974 miles. (6) £4987. 11s. 7½d. (7) 832592. (8) £81058. 12s. 1d. (9) 556818. (10) £103485. 14s. 5½d. (11) 603240. (12) £46908. 17s. 5½d. (13) 1021694. (14) £68177. 7s. 7d. (15) 1279512. (16) £125954. 10s. 6½d. (17) 1686076. (18) £159727. 19s. 8d. (19) 1850634. (20) £37282. 15s. 10½d.

XI. (b).

(1) £1703. 16s. 9½d. (2) 1479 feet. (3) £6136. 2s. 6d. (4) 1167036 soldiers. (5) £1937700. (6) £2000000. (7) 1248888. (8) £121587. 18s. 1½d. (9) 835227. (10) £155198. 11s. 8½d. (11) 904860. (12) £69468. 6s. 2½d. (13) 1632541. (14) £102266. 1s. 4½d. (15) 1919268. (16) £138931. 15s. 9½d. (17) 2542614. (18) £239591. 19s. 6d. (19) 2775951. (20) £55924. 8s. 9½d.

XI. (c).

(1) £3060. 3s. 8d. (2) 3576 feet. (3) £1287. 19s. 4d. (4) 1860 students. (5) 23040 grains. (6) 112 lbs. (7) 1665184. (8) £162117. 4s. 2d. (9) 1118636. (10) £206931. 8s. 11d. (11) 1206480. (12) £92617. 14s. 11d. (13) 2043388. (14) £136854. 15s. 2d. (15) 2559024. (16) £261909. 1s. 1d. (17) 3390162. (18) £319465. 19s. 4d. (19) 3701268. (20) £74665. 11s. 9d.

XI. (d).

(1) £20199. 13s. 2½d. (2) 1880 petals. (3) £13827. 14s. 2d. (4) 685 inches. (5) £4706. 16s. 8d. (6) 15340 yards. (7) 2081480. (8) £202646. 10s. 2½d. (9) 1392045. (10) £258664. 6s. 1½d. (11) 1608106. (12) £115772. 3s. 7½d. (13) 2554235. (14) £170443. 8s. 11½d. (15) 8198780. (16) £314886. 6s. 4½d. (17) 4237690. (18) £399819. 19s. 2d. (19) 4626585. (20) £93206. 19s. 8½d.

XI. (e).

(1) £28844. 1s. 7½d. (2) 2898 pages. (3) £12674. (4) 3174 inches. (5) £106. 3s. (6) 5280 feet. (7) 2497776. (8) £243175. 16s. 8d. (9) 1670454. (10) £310397. 3s. 4½d. (11) 1809720. (12) £138926. 12s. 4½d. (13) 3065082. (14) £204532. 2s. 9d. (15) 3838536. (16) £377863. 11s. 7½d. (17) 5085223. (18) £479183. 19s. (19) 5551902. (20) £111848. 7s. 7½d.

XI. (f).

(1) £45008. 7s. 0½d. (2) 10080 minutes. (3) £4. 16s. 6½d. (4) 5236 inches. (5) 1 day. (6) 2240 lbs. (7) 2914072. (8) £283705. 2s. 3½d. (9) 1948863.

- (10) £862130. 0s. 7½d. (11) 3111340. (12) £162081. 1s. 1¼d. (13) 3575929.
 (14) £238620. 18s. 6½d. (15) 4478292. (16) £440840. 16s. 10¼d. (17) 5932766.
 (18) £559047. 18s. 10d. (19) 6477219. (20) £130489. 15s. 6¾d.

XI. (g).

- (1) £46293. 9s. (2) 5280 feet. (3) £1. 10s. 2d. (4) 1896 inches.
 (5) £14. 4s. (6) 383744 windows. (7) 3330368. (8) £324234. 8s. 4d.
 (9) 2227272. (10) £413862. 17s. 10d. (11) 2412960. (12) £185235. 9s. 10d.
 (13) 4086776. (14) £272709. 10s. 4d. (15) 5118048. (16) £503818. 2s. 2d.
 (17) 6780304. (18) £638911. 18s. 8d. (19) 7402536. (20) £149131. 3s. 6d.

XI. (h).

- (1) £48935. 19s. 5¼d. (2) 3627 ninepins. (3) £118. 2s. 6d. (4) 1998 inches.
 (5) £10500. (6) 1107 grains. (7) 3746664. (8) £364763. 14s. 4¼d.
 (9) 2505981. (10) £465595. 15s. 0¾d. (11) 2714580. (12) £208889. 18s. 6¾d.
 (13) 4597623. (14) £306798. 4s. 1¼d. (15) 5757804. (16) £566795. 7s. 5¼d.
 (17) 7627842. (18) £718775. 18s. 6d. (19) 8327853. (20) £187772. 11s. 5¼d.

XI. (i).

- (1) £58468. 18s. 11¼d. (2) 7980 fingers. (3) £938. 15s. (4) 57860 hundreds.
 (5) £10489. 18s. 4d. (6) 759640 tons. (7) 4162960. (8) £405293. 0s. 5d.
 (9) 2784090. (10) £517328. 13s. 8¼d. (11) 3016200. (12) £231544. 7s. 8¼d.
 (13) 5018470. (14) £340836. 17s. 11d. (15) 6997560. (16) £629772. 12s. 8¼d.
 (17) 8475380. (18) £796639. 18s. 4d. (19) 9253170. (20) £186413. 19s. 4¼d.

XII. (a).

- (1) £22. 10s. 11d. (2) £68419. 11s. 2¼d. (3) £7686. 17s. 6d. (4) 76866750.
 (5) £58. 2s. 1¼d. (6) 38737500. (7) £137. 19s. 7¼d. (8) 1379802081.
 (9) £2383. 8s. 4d. (10) 5616 men. (11) 1176 sheep. (12) £18756.
 (13) 6043 miles. (14) £11887. 9s. (15) 7072 miles. (16) £443748. (17) 7308 legs.
 (18) 2646 legs. (19) 9160 tons. (20) Cost £6. 4s. 10¼d.; sold for £7. 12s. 3d.;
 profit £1. 7s. 4¼d.

XII. (b).

- (1) 40000. (2) 28420. (3) 7686. (4) 7×4080 by 3728. (5) £163696. 4s. 2¼d.
 (6) £16571. 1s. 5¼d. (7) 0. (8) 258265. (9) £147043. 17s. 6d. (10) 4765230.
 (11) £48797. 17s. 2¼d. (12) 3029445. (13) £212846. 1s. 3d. (14) 25566255.
 (15) £2946550. 1s. 6¾d.

XIII.

- (1) $10+4, 9+5, 8+6, 7+7$. (2) $10+5, 9+6, 8+7; 10+6, 9+7, 8+8;$
 $10+7, 9+8; 10+8, 9+9; 10+9$. (3) £59915. 11s. 11d. (4) 41354745.
 (5) £13269. 10s. 4d. (6) 69748656. (7) £111235. 5s. 10¼d. (8) 66323604.
 (9) £7422. 13s. 3d. (10) 74226625. (11) £225509. 15s. 3d. (12) 16281528.

XIV.

- (1) £390. 10s. 7¼d. (2) £385. 17s. 11¼d. (3) 890531250. (4) 385396875.
 (5) £9040. 19s. 4d. (6) £25831. 6s. 8d. (7) 258318320. (8) 90409662.
 (9) £542. 0s. 7¼d. (10) £162. 12s. 2¼d. (11) 542031250. (12) 162609375.
 (13) £7. 18s. (14) £29. 12s. 6d. (15) 790000. (16) 2962500. (17) 499197911.

- (18) £2055. 10s. 5d. (19) £499. 8s. 11½d. (20) 2055520810. (21) £142. 12s. 7½d. (22) £633. 18s. 4d. (23) 1426312494. (24) 6339166640. (25) £1082. 19s. 7½d. (26) £5129. 18s. 1½d. (27) 10829802077. (28) 51290062470. (29) £883. 6s. 8¼d. (30) £2944. 4d. 4¼d. (31) 883265625. (32) 2944218750. (33) £8812. 11s. 10d. (34) £18640. 1s. 8d. (35) 881259161. (36) 1864008810. (37) £18285. 2s. 6d. (38) £86618. 15s. (39) 18285125. (40) 86613750.

XV.

- (1) £111. 2s. 4½d. (2) £154. 12s. (3) 11111875. (4) 15460000. (5) £430. 18s. 3½d. (6) £544. 19s. 7½d. (7) 4309145822. (8) 5449802069. (9) £1237. 4s. 2d. (10) £1721. 8s. 8d. (11) 123720818. (12) 172133312. (13) £1978. 15s. 9½d. (14) £2603. 13s. 5¼d. (15) 1978790625. (16) 2603671875. (17) £327. 18s. 9¼d. (18) £86. 0s. 4d. (19) 3279385375. (20) 860166658. (21) £2116. 9s. 1¼d. (22) 21164572891. (23) £573. 8s. 0½d. (24) £195. 15s. 11d. (25) 5734020805. (26) 1957958324. (27) £3849. 11s. 3d. (28) £3496. 0s. 7½d. (29) 834956250. (30) 349603125.

XVI.

- (1) £939. 18s. 6d. (2) 939925000. (3) £3710. 18s. 1¼d. (4) 3710906235. (5) £2866. 17s. 11d. (6) 316180. (7) $24 = 20 + 4 = 2 \times 13 = 12 \times 2 = 3 \times 8 = 8 \times 3 = 4 \times 6 = 6 \times 4$; $30 = 3 \times 10 = 10 \times 3 = 5 \times 6 = 6 \times 5$; $36 = 30 + 6 = 3 \times 12 = 12 \times 3 = 4 \times 9 = 9 \times 4 = 6 \times 6$; $42 = 40 + 2 = 6 \times 7 = 7 \times 6$; $60 = 6 \times 10 = 10 \times 6 = 5 \times 12 = 12 \times 5$; $63 = 60 + 3 = 7 \times 9 = 9 \times 7$.

XVII.

- (1) £52988. 6s. 8d. (2) £8342289. 11s. 8d. (3) £75614. 11s. 8d. (4) £34524. 8s. 4d. (5) £3410000000. (6) £16041. 13s. 4d. (7) £4166. 13s. 4d. (8) £9687. 10s. (9) £274800. (10) 609000. (11) 50400000. (12) 17000000000. (13) 19000000. (14) 1000. (15) 8000000. (16) 100000. (17) 1000000. (18) 1000000. (19) 100000000. (20) 1000000000000.

XVIII.

- (1) £17802. 19s. 6¼d. (2) £491209. 2s. 6¼d. (3) £41265. 1s. 1¼d. (4) £560. 16s. 10d. (5) £509446. 8s. 9d. (6) £3311739. 17s. 6¼d. (7) £7192. 19s. 2d. (8) £536080. (9) £16300. 17s. 6d. (10) £111223. 17s. 6d. (11) £26118. 2s. 1¼d. (12) £416073. (13) 1368788. (14) 7023081. (15) 17013303. (16) 266486220. (17) 2911902. (18) 41508030. (19) 702342732. (20) 764921532. (21) 70227320. (22) 772570052. (23) 6960153200. (24) 765616852. (25) 5547780. (26) 258255000. (27) 30729600. (28) 2380480. (29) 46281600000. (30) 23673000. (31) £61. 18s. 7¼d. (32) £19384. 9s. 7¼d. (33) £321. 15s. 1¼d. (34) £1412. 10s. (35) £18664. 14s. 3¼d. (36) £136. 6s. 6d. (37) £2. 4s. 4d. (38) £7. (39) £3. 15s. 9d. (40) £42. (41) £8. 9s. (42) £22522. 10s. (43) 107011 men. (44) 406 words. (45) 88128 bricks. (46) 13320 geographical miles. (47) 14688520 eggs. (48) 478380000 grains. (49) 8760 hours. (50) 675259 inches. (51) 43822240 yards. (52) 131466720 feet. (53) 1577600640 inches. (54) 7599384 copies. (55) 17915904 words. (56) 35840 ca. (57) 63360

inches. (58) 960 farthings. (59) 1601600 lbs. (60) 19210 feet. (61) 26448054.
 (62) £7424. 13s. (63) £522. 7s. 6½d. (64) £563. 4s. 5¼d. (65) £21. 4s. 10¼d.
 (66) £385. 8s. 3d. (67) £2. 6s. (68) £14. 14s. 10¼d. (69) £17. 12s. 6d.
 (70) 6s. 6d. per doz.; £130 on the whole. (71) £640. (72) £637. 7s. 2¼d.
 (73) £72. 12s. (74) He gained £36. 8s. 1d. (75) I gain £8. 19s. 4¼d.
 (76) £23. 2s. 7d. (77) £91. 12s. 6¼d. (78) £30. 14s. 11¼d. (79) 215 yards.
 (80) 430 yards. (81) 42 days. (82) 16 days. (83) 40 days. (84) £5. 5s. 4¼d.
 (85) £17. (86) 8s. 3d. (87) £1. 10s. 6d. (88) A profit of £86. 11s.
 (89) 1407 yards. (90) 272 men. (91) 172 threepenny loaves. (92) 3383.
 (93) 15704; 2368. (94) 117936. (95) 13030. (96) 2732880. (97) 362880.
 (98) 2830668750. (99) £28306. 13s. 9d. (100) £4144. 15s. 9¼d. (101) £28350.
 (102) 92866752. (103) 448218972. (104) 7791000. (105) 559482.

XIX.

(1) 3 times. (2) 4 times. (3) 7 articles. (4) 8 weeks. (5) By 5. (6) 10 persons.
 (7) 8 days. (8) 9 strips. (9) 11 regiments. (10) 7 yards. (11) 4 times and £1. 4s. 8d. over.
 (12) 3 times and 8d. over. (13) 6 articles and 6s. 7d. over. (14) 10 months with £1. 5s. to spare.
 (15) 2s. 9d. (16) £1. 7s. (17) 13 months and 1 day over. (18) October 9th. (19) 5 periods. (20) 8 persons and £50. 1s. 4d. over.

XX.

(1) 135 times. (2) 217 articles. (3) By 278. (4) 161 times. (5) 15 years.
 (6) £350 a-year. (7) 84 Napoleons. (8) 142 times. (9) 486 guineas. (10) 80 weeks.
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