



Bodleian Libraries

UNIVERSITY OF OXFORD

This book is part of the collection held by the Bodleian Libraries and scanned by Google, Inc. for the Google Books Library Project.

For more information see:

<http://www.bodleian.ox.ac.uk/dbooks>



This work is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 2.0 UK: England & Wales (CC BY-NC-SA 2.0) licence.

STANDARD V.

SECOND SERIES
INSPECTORS'
Arithmetical Questions

Specially compiled, from the *more difficult Questions*
recently given by Inspectors in the various
districts, for the

NEW CODE, MARCH, 1885,

BY

W. WATSON,

Author of First Series "Inspectors' Arithmetical Questions," "Quarterly Arithmetic," "Quarterly Arithmetical Cards," and "True Test Cards."



LONDON: SIMPKIN, MARSHALL & Co.;
JOHN MARSHALL & Co.
MANCHESTER: JOHN HEYWOOD; THOMAS GREENWELL,
LIVERPOOL: PHILIP, SON, & NEPHEW.
ORMSKIRK: T. HUTTON.
DARLINGTON: NORTH OF ENGLAND SCHOOL
FURNISHING Co.

PRICE ONE PENNY

1885. f. 29

EIGHTH EDITION.

CODE 1885.

FIRST SERIES
INSPECTORS'

Arithmetical Questions :

Specially compiled from the *easier questions* given by Inspectors in the various districts, since the Mundella Code came into operation, with alterations to suit the latest changes in the

NEW CODE, MARCH, 1885,
BY W. WATSON.

400,000 SOLD IN TEN MONTHS.

The following is one of many unsolicited Testimonials received from the Principal Teacher in a London Board School:—

“Your Inspectors’ Arithmetical Questions are A 1.”

“They are a remarkably-cheap series of Test Books, yet quality has not been sacrificed to quantity. The Books only require to be well known to become highly popular.”—
Schoolmaster, Aug. 23rd, 1884.

The FIRST and SECOND SERIES INSPECTORS’ ARITHMETICAL QUESTIONS have been compiled to
ECONOMISE TIME.

Each Book contains

TWENTY-FOUR PAGES and SEVENTY EXAMINATIONS,

Divided into Two Parts (Part I, easier than Part II.),

And each Pupil possessing a copy, no loss of time in giving out, changing, and collecting Cards is entailed. Likewise the answers are corrected far more expeditiously than when Cards are used. The Pupils in rotation might be set to work say Examinations 1, 2, and 3; by this means prevention of copying is secured, whilst only three sets of Answers have to be corrected.

Standards I. to VI. ... **ONE PENNY EACH.**

Standard VII. ... **TWOPENCE** ”

ANSWERS TO EACH STANDARD, on Vellum, TWOPENCE, Nett.
COMPLETE ANSWERS, STS. II. to VII., in Cloth,
FOURPENCE, Nett.

INSPECTORS' ARITHMETICAL QUESTIONS

(SECOND SERIES).

STANDARD V.

PART I.

Ex. 1.

1. What must I pay for eight hundred and sixty-three copies of a book, at three shillings and ninepence farthing each?
2. Write out a bill and receipt for :—95 yards elastic, at $1\frac{1}{4}$ d. per yard ; 5 pairs of gloves, at 2s. 11d. per pair ; 17 pairs of socks, at $9\frac{1}{2}$ d. per pair ; 2 dozen collars, at $6\frac{1}{2}$ d. each ; 5 ties, at 3s. 6d. each.
3. How much income tax does a man pay whose income is £4250 per year, when the tax is 5d. in the pound?
4. Add $\frac{3}{10} + \frac{1}{4} + \frac{5}{8}$, and subtract $\frac{1}{9}$ from the answer.

Ex. 2.

1. How much would a boy receive for 13 months 3 weeks and 4 days, at £1 11s. 8d. per month?
2. Find the value of one and a half million of unframed slates, at one shilling and elevenpence per dozen.
3. Make out a bill for the following :—2400 oranges, at 9d. per doz., 12 gross of eggs, at 2 for $1\frac{1}{2}$ d., 6 score cabbages, at $2\frac{1}{2}$ d. each, 11 doz. boxes of figs, at $10\frac{1}{2}$ d. per doz., and 20 bags of apples, at 1s. 9d. per bag.
4. From the difference between $\frac{8}{9}$ and $\frac{1}{5}$, take the difference between $\frac{5}{8}$ and $\frac{3}{4}$.

Ex. 3.

1. Find the cost of twelve thousand three hundred and forty-five articles, at three hundred and five pounds and tenpence farthing each.
2. A bill :—31 silk handkerchiefs, at 4s. 6d. each.
24 silk scarfs, at 5s. 9d. each.
15 neck ties, at 2s. 9d. each.
14 hats, at 6s. 4½d. each.
13 pairs of gloves, at 2s. 11d. per pair.
3. If £2 13s. 6d. be the price of three yards of silk, how many yards can be bought for £633 1s. 8d. ?
4. Add $\frac{7}{8} + \frac{4}{6} + \frac{5}{7} + \frac{1}{3} + \frac{4}{5}$.

Ex. 4.

1. What is the value of 674 acres 2 roods 29 poles at 11s. 4½d. per acre ?
2. If a building 56 feet high throws a shadow of 36 feet, what is the height of a building which casts a shadow of 119 feet ?
3. What change would a lady receive out of a £10 note after paying for the following :—5¼ yds. of calico, 3¾d. per yd., 7⅞ yds. of muslin, at 1s. 8¼d. per yd., ½ yd. of black silk, at 3s. 11½d. per yd., 20 yds. of holland, at 3s. 4d. per yd., and 5 pairs of blankets, at 18s. 9d. per pair ?
4. Simplify $(\frac{3}{4} + \frac{2}{5}) - (\frac{3}{5} - \frac{4}{7})$.

Ex. 5.

1. What must I pay for eight hundred and seven pigs, at six pounds three shillings and sixpence three farthings each ?
2. What sum of money shall I have left out of £20, after paying the following bill :—
6 doz. buttons, at 11d. per doz.
15 yds. calico, at 7½d. per yard.
10 yds. velvet, at 9s. 3d. per yard.
13¼ yds. flannel, at 1s. 5d. per yard.
9 yds. black silk, at 12s. 9d. per yard ?
3. I borrowed £250 for ten months ; how long ought I to lend £95 in return ?
4. To $\frac{3}{5}$ add $(\frac{5}{8} + \frac{1}{3} + \frac{1}{2})$.

Ex. 6.

1. Find the cost of 16 yds. 2 ft. 10 inches, at 2s. 6½d. per yard.
2. A train travelling 52 miles an hour finished a journey in 9 hours; in what time would a train travelling 36 miles an hour complete the journey?
3. Make out a bill for the following:—5 stones of flour, @ 2s. 3d. per stone, 7½ lbs. of butter, @ 1s. 9d. per lb., a stone of sugar, @ 4½d. per lb., 13 lbs. of rice, @ 2½d. per lb., and ¼ lb. of tea, @ 3s. 9d. per lb.
4. Add together $\frac{3}{10}$, $\frac{4}{5}$, and $\frac{7}{8}$, and take $\frac{1}{3}$ from the answer.

Ex. 7.

1. What must I pay for seven hundred and sixty thousand and ninety-one articles, at thirteen shillings and elevenpence farthing each?
2. Make out and settle the following bill:—
 8 washing machines, at £2 10s. 0d. each.
 11 wringing machines, at £1 15s. 0d. each.
 5 churns, at 3 guineas each.
 17 water tubs, at 8s. 6d. each.
3. If 145 sheep cost £169 3s. 4d., what is the price of a score at the same rate?
4. Add $\frac{7}{8} + \frac{1}{3} + \frac{3}{5} + \frac{2}{3} + \frac{1}{4}$.

Ex. 8.

1. Find the value of 10 tons 14 cwt. 3 qrs., at £4 3s. 4d. per ton.
2. If a stone of sugar cost 3s. 5d., what would 2 casks each containing 4 cwts. cost?
3. What change should I have out of £7 after paying for the following:—½ dozen candlesticks, at 3s. 7d. each, 5 saucepans, at 3s. 4d. each, 1 stone of nails, at 2½d. per lb., 7 pairs of scissors, at 1s. 9½d. each, and 5 dozen teaspoons, at 4 for 1s. 8d.?
4. From the sum of $\frac{5}{6}$ and $\frac{3}{8}$, take the sum of $\frac{3}{5}$ and $\frac{1}{9}$.

4 *Inspectors' Arithmetical Questions.*

Ex. 9.

1. How much must I pay for thirty-five thousand seven hundred and eight articles, at two shillings and sevenpence farthing each ?
2. Make out the bill for :—3 tables, at 18s. 6d. each ; 9 chairs, at 17s. 3d. each ; 11 boxes, at 7s. 9d. each ; 36 pegs, at 4 for 6d. ; 78 screws, at $8\frac{1}{2}$ d. a dozen.
3. If 35 loads of hay can be had for £100, what should be given for 126 loads ?
4. Add $\frac{3}{8} + \frac{1}{6} + \frac{4}{5} + \frac{1}{7}$.

Ex. 10.

1. What is the value of 96 acres 1 rood 20 poles, at £24 7s. 6d. per acre ?
2. How much would it take to supply 172 boys and 98 girls with an orange each, at 2 for three half-pence ?
3. Make out and receipt the following bill :—5 pairs of kid boots at 16s. $5\frac{1}{4}$ d. per pair, 18 pairs of shoes, at £1 3s. 4d. per pair, 15 pairs of slippers, at 4s. 9d. per pair, and 20 pairs of cork socks, at 10d. per pair.
4. Add one-third, two-sevenths, four-fifths, five-sevenths, and two-thirds.

Ex. 11.

1. Find the cost of eight hundred and seventy-nine head of cattle, at fourteen pounds thirteen shillings and ninepence each.
2. Make out this bill :—5 fenders, at 11s. 9d. each, 11 locks, at 1s. $7\frac{1}{2}$ d. each, 72 locks, at 4s. 3d. per dozen, 3 lamps, at 2s. 5d. each, 7 bolts, at $11\frac{1}{2}$ d. each.
3. If 45 yds. of silk be bought for twenty-nine pounds eighteen shillings and threepence, how many yards can be purchased for nine pounds nineteen shillings and fivepence ?
1. Add $\frac{4}{9} + \frac{3}{7} + \frac{1}{8} + \frac{5}{8}$.

Ex. 12.

1. What must be paid for 16 acres 2 roods 18 poles of land, at £63 18s. 9d. per acre?
2. If the rent of 6 acs. 3 rds. 4 pls. be £21 8s. 5d., what will the rent of 8 acs. 1 rd. 30 pls. be?
3. Make out the following baker's bill:—5 stone of flour, at 2s. 4d. per stone, 100 buns, at 9d. per doz., 3 plum loaves, at 1s. 1½d. each, 15 seed loaves, at 1 1½d. each, baking 6 doz. loaves, at 2 for 1½d.
4. How much is $\frac{5}{9}$ more than $\frac{2}{5} - \frac{1}{6}$?

Ex. 13.

1. Find the cost of 1,923 pairs of boots, at 19s. 8¼d. per pair.
2. Make out this bill:—38 lbs. of tea, at 2s. 10d.; 45 lbs. of tea, at 3s. 2d.; 19 lbs. of green tea, at 3s. 8d.; 3005 lbs. of sugar, at 45s. per cwt.
3. If fifty-five acres of land cost £3877 10s., what should be paid for 77 acres 2 roods at the same rate?
4. Simplify $(\frac{3}{4} + \frac{1}{8}) - (\frac{1}{10} + \frac{1}{6})$.

Ex. 14.

1. What would be the cost of constructing a telegraph for a distance of 84 miles 3 fur. 12 poles, at £386 10s. 0d. per mile?
2. If thirty-five cwt., two qrs., fourteen lbs. of raisins cost seventy pounds, what weight can be bought for twenty-eight pounds?
3. Make out the following bill:—1½ gallons oil. at 7d. per qt.; ½ gallon paraffin, at 1½d. per pint; 3 qts. turpentine, at 4s. per gall.; 1½ stone white lead, at 5d. per lb.
4. By how much is $\frac{3}{4} - \frac{1}{7}$ more than $\frac{1}{6} + \frac{2}{7}$.

Ex 15.

1. 734 tons, at £5 11s. 7 $\frac{3}{4}$ d. per ton.
2. Make out a bill for 17lbs. of soap, at 4d. per lb., 5 $\frac{1}{2}$ galls. of beer, at 1s. 4d. per gallon, 13 lbs. of sugar, at 4 $\frac{1}{2}$ d. per lb., and 50 eggs, at 10 for a shilling.
3. A man buys a field containing 7 acres 2 roods for £76 13s. 4d. ; how many acres can he buy for £536 13s. 4d. ?
4. $\frac{5}{8} + \frac{4}{5} + \frac{3}{4} + \frac{5}{9}$.

Ex. 16.

1. Find the cost of purchasing 44 acres 2 roods 25 poles of land, at £55 16s. 7 $\frac{1}{2}$ d. an acre.
2. If twenty-seven acres of wheat can be cut down in four-and-a-half days, how long, at the same rate, will it take to reap seventy-nine-and-a-half acres ?
3. Make out the following bill :— $\frac{1}{2}$ cwt. cheese, at 10 $\frac{1}{2}$ d. per lb. ; 3 tins of biscuits, each 8 $\frac{1}{2}$ lbs., at 9 $\frac{1}{2}$ d. per lb. ; 50 lbs. of sugar, at 2 guineas per cwt. ; 3 chests of tea, each 80 lbs. weight, at 2s. 8d. per lb.
4. $\frac{1}{3} + \frac{2}{5} + \frac{1}{4} + \frac{3}{5} + \frac{2}{3}$.

Ex. 17.

1. Seven thousand four hundred and ninety-three tons, at £3 19s. 7 $\frac{1}{2}$ d.
2. Make out a bill for five quires of paper, at $\frac{1}{2}$ d. per sheet, 5 $\frac{1}{2}$ gross of penholders, at 7d. per dozen, 750 envelopes, at 4s. 6d. per thousand, and 3 dozen table-books, at $\frac{3}{4}$ d. each.
3. If 10 men can reap a field of 48 acres in five days, how many acres could 35 men reap in the same time ?
4. $(\frac{2}{3} + \frac{7}{8}) + (\frac{1}{3} + \frac{1}{2})$.

Ex. 18.

1. Forty-three miles five furlongs sixteen poles, at six shillings and eightpence halfpenny per furlong.
2. If twenty-four shirts can be made out of eighty-four yards of calico, how many similar shirts can be made from two hundred and ten yards?
3. Make out the following bill:— $26\frac{1}{2}$ yds. flannel, at 2s. 6d. per yd. ; $24\frac{3}{4}$ yds. calico, at 7d. per yd. ; 384 yds. linen, at £1 18s. 0d. per doz. yards ; 1200 buttons, at 5d. per score.
4. Add $\frac{1}{3} + \frac{2}{5} + \frac{1}{6} + \frac{3}{9}$.

Ex. 19.

1. Find the cost of 9046 articles, at £6 13s. $7\frac{3}{4}$ d. each.
2. Make out a bill for $10\frac{1}{4}$ lbs. of butter, at 1s. 3d. per lb., $1\frac{1}{2}$ doz. eggs, at $\frac{3}{4}$ d. each, 9 lbs. of coffee, at 1s. 8d. per lb., and 5 lbs. of soap, at 5d. per lb.
3. How many ounces of tea can I buy for 15s. $6\frac{1}{2}$ d., if 18 lbs. cost £2 6s. $7\frac{1}{2}$ d. ?
4. Find the sum of $\frac{1}{7} + \frac{1}{9} + \frac{1}{3} + \frac{1}{2} + \frac{1}{6}$.

Ex. 20.

1. Find the value of 72 sq. yds. 6 sq. ft. 3 sq. incs., at 3s. 7d. per sq. yd.
2. What is the cost of repairing a road for 20 yds. 2 feet 8 incs., at 16s. 6d. per chain?
3. Make out the following bill:—5 lbs. of sugar, @ $4\frac{1}{2}$ d. per lb., 10 lbs. of rice, @ $2\frac{3}{4}$ d. per lb., 1 cwt. of butter, @ 1s. $3\frac{1}{2}$ d. per lb., $\frac{1}{2}$ stone of soap, at $3\frac{1}{2}$ d. per lb., and a cask of treacle, weighing 1 cwt. 2 qrs., @ $2\frac{1}{2}$ d. per lb.
4. Add together $\frac{4}{5} + \frac{2}{3} + \frac{5}{8} + \frac{7}{10}$.

Ex. 21.

1. Find the value of 8632 articles, at £1 14s. 3¼d.
2. Make out a bill for 7 cows, at £12 10s. 6d. each, 25 sheep, at 29s. 5d. each, 9 calves at £1 15s. 8d. each, and 5 pigs, at £1 17s. 6d. each.
3. If 1000 square yards of meadow land produce a load of hay, how many loads will 25 acres produce?
4. $\frac{4}{9} + \frac{2}{3} + \frac{5}{6} + \frac{5}{7}$.

Ex. 22.

1. What is the rent of 39 a. 2 r. 5 p. at £4 12s. 6d. per acre?
2. If 1 qr. 7 lbs. be carried 200 miles for 10s., how far might $\frac{1}{2}$ ton be carried for the same money?
3. A lady bought :—
 4 caps, at 8½d. each.
 5 yards of silk, at 5s. 3d. per yard.
 4 yards of calico, at 8d. per yard.
 8 pairs of stockings, at 1s. 3d. per pair.
 6 pairs of cuffs, at 7¾d. per pair.
4. Find the value of $\frac{3}{4} + \frac{5}{9} + \frac{2}{3} - \frac{3}{5}$.

Ex. 23.

1. What cost three thousand nine hundred and eight articles, at £7 11s. 4½d. each?
2. Make out a bill for 1 cwt. of soda, at 2¼d. per lb., 8 ozs. of tea, at 3s. 2d. per lb., 11 lbs. of sugar, at 4½d. per lb., and 23 lbs. of nuts, at 4½d. per lb.
3. A bankrupt pays 14s. 2d. in the pound; how much will a creditor receive for his debt of £1516 17s. 6d.?
4. Add together $\frac{2}{7}$, $\frac{3}{4}$, $\frac{1}{5}$, $\frac{6}{7}$, and $\frac{2}{3}$.

Ex. 24.

1. What is the cost of 19 yards 2 feet 8 inches, at 2s. 9 $\frac{3}{4}$ d. a yard?
2. In how many days will 6 guineas be spent, at the rate of 7 shillings in 3 days?
3. Make a bill for,—15 $\frac{1}{4}$ yds. of cloth, at 17s. 6d. per yd. ; 426 yds. of lace, at 10 $\frac{1}{4}$ d. per yard ; 70 doz. of neckties, at 3s. 6d. for four ; 110 pairs of stockings, at 2s. 6 $\frac{1}{2}$ d. per pair ; 13 doz. needles, at 8s. 6d. per gross.
4. What is the sum of $\frac{4}{5}$, $\frac{3}{10}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{1}{3}$, and $\frac{3}{8}$?

Ex. 25.

1. What cost seven thousand three hundred and twenty-five articles, at £9 3s. 6 $\frac{1}{2}$ d. each?
2. Make out a bill for 126 articles, at 7 for 3d., 14 lbs., at 3 $\frac{1}{2}$ d. per oz., 16 lbs. of candles, at 5 $\frac{1}{2}$ d. per lb., and 10 ozs., at 2 ozs. for 3 $\frac{1}{2}$ d.
3. If 3 bushels of corn cost £1 9s. 3d., what will 17 qrs. 1 bus. cost, at the same rate?
4. $\frac{2}{3} + \frac{4}{5} + \frac{3}{4} - \frac{5}{8}$.

Ex. 26.

1. Calculate by practice a man's wages for 16 weeks, 3 $\frac{1}{2}$ days, at 3ls. 6d. a week (6 days to a week).
2. For £3 6s. 8d. a certain weight can be carried 176 miles ; how far should it be carried for £4 3s. 4d. ?
3. Make out the following bill,—
 $\frac{3}{4}$ of a ton, at 17s. 6d. per cwt.
1 cwt., at 4 $\frac{1}{2}$ d. per lb.
2 $\frac{1}{2}$ lbs., at 3d. per oz.
5 $\frac{1}{2}$ doz., at 5 $\frac{1}{2}$ d. each article.
75 articles, at 2 $\frac{1}{2}$ d. each article.
4. Add together three-fifths, seven-tenths, four-fifths, and nine-tenths.

Ex. 27.

1. Find by practice the cost of twelve thousand and seventeen articles, at one pound seventeen shillings and eightpence three farthings each.
2. Make out a bill for 15 pairs of boots at 12s. 6d. per pair, 9 pairs of ladies' boots, at 8s. 9d. per pair, 11 pairs of slippers, at 3s. 6d. per pair, and 2 doz. laces, at 2 for 1½d.
3. If goods are carried one hundred and fifty miles for 10s. 5d., how far should they be carried for twenty-five shillings and fivepence?
4. $(\frac{6}{7} + \frac{4}{5}) - (\frac{2}{9} + \frac{1}{3})$.

Ex. 28.

1. Find by practice the value of 150 yds. 2ft. 10in. of cable, at 3s. 9d. a yard.
2. A man can walk 15 miles in 4 hours; how far can he walk in 2 hrs. 30 mins.?
3. Make out a bill of the following:—15 lbs. of beef, at 1s. 4d. a lb.; 16½ lbs. of mutton, at 10½d. a lb.; 14 lbs. of suet, at 1s. 0½d. a lb.; 16 lbs. of veal, at 11¾d. a lb., and 17 lbs. of lamb, at 1s. 1¼d. per lb.
4. To the difference between $\frac{1}{3}$ and $\frac{5}{9}$, add the sum of $\frac{1}{2}$, $\frac{5}{6}$, and $\frac{7}{9}$.

Ex. 29.

1. Find by practice the cost of thirty thousand one hundred and seven articles, at ten pounds sixteen shillings and ninepence three farthings each.
2. Make out a bill for 57 reels of cotton, at 3 for 2½d., 9¾ yds. of silk, at 8s. 10d. per yd., 5 dozen yds. of lace, at 11½d. per yd., and 17 yds. of lining, at 4½d. per yd.
3. If 14 men do a piece of work in 12 days, how long would it take 12 men to do it.
4. Subtract $\frac{2}{3}$ from $\frac{3}{5} + \frac{3}{10}$.

Ex. 30.

1. 107 cwt. 2 qrs. 22 lbs., at £18 10s. per ton.
2. Find the value of 7 cwt. 1 qr. 8 lbs. of cheese, when 3 cwt. 64 lbs. cost £17 18s. 4d.
3. A bill:—4 stone rice, @ $3\frac{1}{2}$ d. per lb. ; 3 qrs. sugar, @ 37s. 4d. per cwt. ; 6 lbs. tea, @ 2s. $8\frac{1}{2}$ d. per lb. ; $\frac{1}{4}$ cwt. soap, @ $3\frac{1}{2}$ d. per lb.
4. Find the difference between $\frac{1}{2} + \frac{1}{3}$ and $\frac{4}{5}$.

Ex. 31.

1. How much must be paid to eight hundred and nineteen men for a week's wages, at two pounds nine shillings and elevenpence three farthings each per week?
2. Make out a bill for 875 envelopes, at 10d. per 100, 7 quires of paper, at $5\frac{1}{2}$ d. per quire, 2 quires of foolscap, at $\frac{1}{2}$ d. per sheet, and 9 note books, at $11\frac{1}{2}$ d. each.
3. If a wheel 36 feet in circumference turns round 36 times in 12 seconds, how often will it turn round in a minute?
4. What is the difference between one-fifth and one-sixth?

Ex. 32.

1. 46 yards 2 feet 9 inches, at £2 0s. 6d. per yard.
2. If 70 loaves of bread can be made from 480 lbs. of flour, how many similar loaves can be made from 66 tons of flour?
3. Make out a bill for the following:—
 - 3 doz. pair gloves, @ 1s. 9d. per pair.
 - 2 gross buttons, @ $6\frac{1}{4}$ d. per doz.
 - 160 yds. fringe, @ 1s. 5d. per doz.
 - 34 yds. of ribbon, @ 7d. per yd.
 - Carriage and packing, 1s.
4. $(\frac{9}{16} + \frac{7}{8}) - (\frac{2}{3} - \frac{1}{5})$.

Ex. 33.

1. Required the cost of 10445 chairs, at £1 17s. 8¼d. each.
2. Make out the following bill:—2 cwt. of cheese, at 8½d. per lb. ; ½ cwt. of butter, at 1s. 3½d. per lb. ; 3 gross of eggs, at 9¼d. per doz. ; and 10 couple of chickens, at 2s. 6d. per couple.
3. If 600 men complete a piece of work in 27 days, how long will it take 54 men to do it ?
4. Subtract the sum of $\frac{1}{8}$ and $\frac{1}{9}$ from $\frac{9}{10}$.

Ex. 34.

1. How much must I give for a field containing 25 acres 2 roods 6 poles, at £78 16s. 8d. per acre ?
2. If eggs are sold at 16 for a shilling, what must I give for twenty-four dozen and eight ?
3. Make out the following bill:—
 - 60 gross pencils, @ 1s. 1½d. per doz.
 - 90 doz. penknives, @ 1s. 4½d. each.
 - 34 quires foolscap, @ 1s. 6d. per quire.
 - 2 doz. rulers, @ 6d. each.
4. $\frac{8}{9} - \frac{2}{5}$. and take the answer from $\frac{7}{11}$.

Ex. 35.

1. Find the value of 8289 gardens, at £61 2s. 8¼d. each.
2. Arrange the following in the form of a bill:—1 dozen eggs, at a penny each ; 11 lbs. of butter, at 1s. 3d. per lb. ; a score of potatoes, at ¼ per lb. ; three dozen oranges, at two for three-halfpence.
3. If 72 men earn £468 12s. 0d. in six weeks, how many men would earn £58 11s. 6d. in the same time ?
4. Take the difference between $\frac{3}{4}$ and $\frac{3}{10}$, from their sum.

STANDARD V.

PART II.

A 1.

1. Find the cost of seventeen score sheep, at two pounds thirteen shillings and threepence each.
2. Write out a bill and receipt for:—2 fitches, each $2\frac{1}{4}$ stones, at 11s. 6d. per stone; 5 hams, each 21 lbs., at 12s. 9d. a stone; 17 lbs. lard at $9\frac{1}{2}$ d.; 39 lbs. butter, at 1s. $3\frac{1}{4}$ d.; 100 eggs, at $10\frac{1}{2}$ d. a dozen.
3. If 156 men get in wages the sum of £177 12s., how many men can have their wages out of £59 4s.?
4. From the half of an orange, cut away $\frac{1}{8}$, and $\frac{1}{10}$; how much remains?

A 2.

1. Find the rent of fifty acres three roods thirty-seven poles of land, at four pounds sixteen shillings and eight-pence per acre.
2. If 18 bushels of corn last 15 horses a week, how long would 56 qrs. 2 bushels last the same number of horses?
3. Make out a bill for the following:—2 sides of bacon, each $74\frac{1}{2}$ lbs., at $8\frac{1}{2}$ per lb.; 3 hams, each 42 lbs., at 11d. per lb.; and 2 bladders of lard, each $11\frac{1}{4}$ lbs., at $10\frac{1}{2}$ d. per lb.
4. From the greatest of the fractions $\frac{3}{8}$, $\frac{4}{7}$, and $\frac{3}{8}$, take the least.

A 3.

1. What must I pay for seventy-three engines, at four hundred and nine pounds twelve shillings and elevenpence farthing each?
2. Make out and settle the following bill :
 - 100 rabbits at 2s. 6d. per couple.
 - 40 woodcocks at 5s. 6d. per brace.
 - 8 hares at 3s. 9d. each.
 - 11 guinea fowls at 2s. 9d. each.
 - 13 ducks at 2s. 10d. each.
3. If a man paid £116 2s. 11d., who owed £1115, how much did he pay in the pound?
4. If from $\frac{4}{5}$ of an estate $\frac{1}{3}$ is cut off, what fraction remains?

A 4.

1. Find the expense of repairing a road twelve miles seven furlongs twenty-six poles in length, at seven pounds per mile.
2. If 5 acs. 1 rd. yield 16 qrs. 5 bush., what will 3 acs. yield?
3. Make out and receipt the following bill: 6 wall maps at 13s. 7 $\frac{1}{2}$ d. each, $\frac{1}{2}$ gross of atlases at 1s. 9d. each, 1 gross of slates at 2s. 9d. per dozen, 2 gross of copy books at 1s. 11d. per dozen, and 5 doz. exercise books at 4 for 10d.
4. Simplify $(\frac{3}{4} - \frac{1}{7}) - (\frac{1}{3} - \frac{1}{5})$.

B 1.

1. What would be the cost of nineteen hundredweights, three quarters, seven pounds of sugar, at fifteen shillings and sevenpence a stone?
2. Make out a bill with receipt for:—7 $\frac{1}{2}$ lbs. treacle at 3 $\frac{1}{2}$ d.; 5 lbs. raisins at 4 $\frac{1}{2}$ d.; 6 $\frac{1}{4}$ lbs. muscatels at 1s. 3d.; 2 $\frac{1}{2}$ stones soap at 2 $\frac{1}{2}$ d. a lb.; 3 cheeses, each weighing 7 $\frac{1}{4}$ lbs., at 10d. a lb.
3. If 25 workmen can mow 3 fields in 4 days, how many men can do the same in 20 days?
4. Take $(\frac{1}{5} + \frac{4}{3} + \frac{2}{3})$ from $(\frac{3}{4} + \frac{1}{3} + \frac{5}{8})$.

B 2.

1. How much was paid for 2 cwt. 3 qrs. 27 lbs. of coffee at 1s. 3d. per lb.?
2. If a book cost eighteen and fourpence halfpenny, and I sell a dozen for twenty-two guineas, how much do I gain on the sale of six gross?
3. Bill: 3704 at 1s. 2½d. each; 720 at 5s. a gross; 3¼ lbs. at 15d. per lb.; 8643 at 11d. a dozen; 475 at 1s. per 100.
4. Take the smaller of $\frac{1}{3}$ and $\frac{1}{4}$, from their sum.

B 3.

1. What must I pay for three thousand nine hundred and eighty-seven clocks, at three guineas and a half each?
2. Make out and settle the following bill:—
 2 pianos at 55 guineas each.
 2 harmoniums at 11 guineas each.
 4 American organs at 15½ guineas each.
 Second-hand cottage piano, £21.
 6 violins at £1 9s. 6d. each.
3. If 40 men can build a wall in 10 days, how many extra men will be required to build it in 8 days?
4. To $\frac{1}{3} + \frac{5}{6}$, add $\frac{3}{5} + \frac{2}{10}$.

B 4.

1. What is the value of 793 tons 18 cwt. 2 qrs. 7 lbs. at £46 12s. 6d. per ton?
2. Find the value of eighteen and a quarter cwt. of flour if a stone of flour cost two shillings and fourpence.
3. Make out and receipt the following bill:—A score rolls of wall paper at 9½d. per roll, 32 boxes of pens at 1s. 6d. per box, a gross of lead pencils at 9d. per dozen, 50 gross of slate pencils at 3½d. per 100, and a ream of note paper at 2½d. per quire.
4. Work this sum:— $\frac{1}{3} + \frac{1}{4} + \frac{1}{5} + \frac{1}{6} + \frac{1}{7}$.

C 1.

1. Find the cost of two loads of potatoes at eightpence farthing per peck.
2. Make out in proper form a bill for:—2 shoulders mutton, each weighing $4\frac{1}{4}$ lbs., at $10\frac{1}{2}$ d. ; $5\frac{1}{2}$ lbs. salt beef at $9\frac{1}{2}$ d. ; 3 tongues at 4s. 9d. each ; half a stone of pork at $8\frac{1}{2}$ d. per lb. ; $1\frac{1}{2}$ stone of beef at 11d. per lb.
3. If I pay £1 19s. 0d. per cwt. for lead, how much will it cost to cover the roof of a building with lead that weighs 5505 lbs. ?
4. A horse jumps $\frac{7}{8}$ and a pony $\frac{5}{9}$ of two yards ; how much further does the horse go than the pony each jump ?

C 2.

1. What is the value of 4 acres 15 poles at £2 2s. 6d. per rood ?
2. If a man walk thirteen and a half miles in four and a half hours, how many hours will he be in walking one hundred and forty-eight and a half miles ?
3. Bill:—4017 at 1s. $10\frac{1}{4}$ d. each ; 36 doz. at $\frac{3}{4}$ d. each ; $4\frac{1}{2}$ yds. at 2s. a foot ; 11 score at 11d. a doz. ; $4\frac{1}{4}$ cwt. at £10 a ton.
4. Add together one-third, one-fifth, one-fourth, five-sixths, and three-sevenths.

C 3.

1. Find the cost of seven hundred and sixteen stones of flour at sixpence three farthings a pound.
2. Make out the following bill:—
 5 doz. bottles of gum at 9d. per doz.
 10 doz. elastic bands at 3d. per doz.
 $\frac{1}{2}$ doz. thermometers at 1s. 1d. each.
 1 gross paper fasteners at 11d. per gross.
3. £45 2s. $2\frac{1}{2}$ d. was paid for mowing 91 acres 3 roods of grass. How many acres should be mown for £5 3s. 3d. at the same rate ?
4. Simplify $(\frac{4}{8} + \frac{1}{3} + \frac{2}{5}) - (\frac{1}{3} + \frac{1}{5} + \frac{2}{4})$.

C 4.

1. What is the value of 1 ton 11 cwt. 3 qrs. 18 lbs. at £2 16s. 8d. per cwt. ?
2. The 2 lb. loaf costs 4d. when wheat is 1s. 10½d. per peck ; what ought it to cost when wheat is 45s. a qr. ?
3. How much short of £20 would the following articles cost :—20 yards of silk at 5s. 9d. per yard, 15¼ yards of ribbon at 3¼d. per yard, 50½ yards of calico at 4½d. per yard, ½ doz. pocket handkerchiefs at 7¾d. each, and 1½ lbs. of wool at 4½d. per oz. ?
4. Add $\frac{3}{5}$ to the difference between four-fifths and five-sixths.

D 1.

1. Find the cost of seven hundred and six revolvers at three guineas and elevenpence each.
2. Write a bill and receipt for :—1000 oranges at 4 for 3d. ; 10 stone apples at 3½d. a lb. ; 1½ cwt. potatoes at 11d. a stone ; 250 cauliflowers at 1s. 6d. a score ; 325 cabbages at 6s. 6d. a hundred.
3. A ship's crew of thirty-six men have provisions for ten weeks ; how long will they last if nine additional sailors are taken on ?
4. Add $\frac{5}{7} + \frac{1}{4} + \frac{1}{3} + \frac{5}{8}$, and subtract from your answer $(\frac{5}{9} - \frac{1}{4})$.

D 2.

1. Find the value of 7698½ articles at £2 11s. 7¼d. each.
2. If 6 cwt. 56 lbs. be carried for £5 6s. 8½d., what would be the cost of carrying 5½ cwt. the same distance ?
3. Bill :—7019 at 11¼d. each ; 34¼ doz. at 7¼d. each ; 4 score at 3d. a doz. ; 5000 at 1s. a 100 ; 4½ ft. at 6d. a yard.
4. From the sum of $\frac{5}{8}$ and $\frac{3}{7}$, take the sum of $\frac{1}{3} + \frac{3}{7}$.

D 3.

1. What would it cost for four hundredweights three quarters of cheese, at ninepence farthing the pound?
2. A bill :—
 2 doz. spelling books at 8d. each.
 $3\frac{1}{2}$ doz. English grammars at 7d. each.
 $1\frac{1}{2}$ doz. geographies at 9s. per doz.
 18 histories at 5d. each.
 Carriage of above, 2s. 6d.
3. A clerk's wages are to be at the rate of £7 15s. per month ; how much will he receive for a term of 15 weeks ?
4. Take $(\frac{1}{8} + \frac{1}{4} + \frac{2}{10})$ from $(\frac{5}{6} + \frac{3}{8} - \frac{1}{4})$.

D 4.

1. Find the value of 6 tons 12 cwt. 3 qrs. 10 lbs. 8 oz. at £3 14s. $8\frac{1}{4}$ d. per cwt.
2. If the 4d. loaf weigh $2\frac{1}{2}$ lbs. when wheat is 63s. a quarter, what should it weigh when wheat is £2 12s. 6d. a quarter ?
3. Make out the following bill :—A stone of sugar at $2\frac{3}{4}$ d. per lb., 19 lbs. of rice at $2\frac{1}{2}$ d. per lb., $2\frac{1}{2}$ cwts. of bacon at 8d. per lb., 13 lbs. of currants at $4\frac{1}{2}$ d. per lb., and half a stone of treacle at 3d. per lb.
4. Find the difference between $\frac{1}{3} + \frac{1}{4}$ and $\frac{2}{3} + \frac{1}{5} + \frac{3}{5}$.

E 1.

1. What must I pay for eighty three thousand and nine picture frames, at seven half crowns each ?
2. Write out a bill for :— $1\frac{1}{2}$ stone potatoe at $1\frac{1}{2}$ d. a lb. ; $7\frac{1}{2}$ lbs. apples at $2\frac{1}{2}$ d. a lb. ; $5\frac{1}{2}$ stone apples at 1s. 9d. a stone ; 40 cabbages at 9d. a dozen ; $9\frac{1}{2}$ lbs. plums at $1\frac{3}{4}$ d.
3. If 4 horses cost £75 12s. 0d., what must be given for 72 ponies of which three are worth one horse ?
4. From $\frac{3}{4}$ of an apple cut away $\frac{1}{8}$, $\frac{1}{4}$, and $\frac{1}{6}$; what remains ?

E 2.

1. Calculate a person's wages for five months three weeks and five days at one pound seven shillings and five-pence per month (6 dys = 1 week).
2. A bankrupt pays £176 5s. for a debt of £1200 ; how much in the £ does he pay ?
3. Bill :—417 at $11\frac{1}{4}$ each ; 13 doz. at 13d. each ; $4\frac{1}{4}$ yds. at 3s. 6d. a ft. ; 12 score at 1s. a doz. ; $7\frac{1}{4}$ tons at 1s. 6d. a cwt.
4. Find the sum and difference of $\frac{5}{6}$ and $\frac{7}{9}$.

E 3.

1. What is the value of $197\frac{3}{4}$ articles at £6 8s. 2d. each.
2. What change should I receive out of a five-pound note, after paying the following bill :—
 - 5 doz. reading books at 10d. each.
 - $3\frac{1}{2}$ doz. geographies at 2d. each.
 - 2 doz. histories at $2\frac{1}{2}$ d. each.
 - 18 atlases at 8s. 6d. per doz.
 - 1 gross lead pencils at 8d. per doz.
3. A bankrupt fails owing £6904 ; he can only pay 16s. $4\frac{1}{2}$ d. in the £ ; what will his creditors lose ?
4. Simplify $(\frac{1}{3} + \frac{1}{4}) - (\frac{1}{6} + \frac{2}{9} - \frac{1}{5})$.

E 4.

1. What is the cost of 6 fur. 11 poles $2\frac{3}{4}$ yards, at £3 14s. $7\frac{1}{2}$ d. per mile.
2. If I pay £9 7s. 6d. income-tax, being at the rate of 5d. in the £, what is my income ?
3. Make out a bill for the following :—5 lbs. of sugar at $4\frac{1}{2}$ d. per lb., $5\frac{1}{2}$ lbs. of tea at 3s. 4d. per lb., $\frac{1}{2}$ stone of coffee at 1s. 3d. per lb., 15 lbs. of rice at $2\frac{1}{2}$ per lb., and $17\frac{1}{2}$ lbs. of sago at $4\frac{1}{2}$ per lb.
4. Add together $\frac{1}{3}$, $\frac{1}{5}$, $\frac{3}{4}$, $\frac{2}{9}$, and take $\frac{3}{4} + \frac{5}{6}$ from the answer.

F 1.

1. Find the value of 1730 ponies at £13 0s. 11 $\frac{3}{4}$ d. each.
2. Make out a bill and receipt for:—17 yds. flannel at 2s. 7d. ; 16 $\frac{3}{4}$ yds. Brussels carpet at 3s. 8d. ; 23 $\frac{1}{2}$ yds. stair carpet at 2s. 9d. ; 11 yds. 1 ft. oil cloth at 4s. 6d. per yard ; 5 table cloths at 11s. 6d. each.
3. If a ninepenny loaf weigh 4 $\frac{3}{4}$ lbs., what will 8 loaves, each 9 $\frac{1}{2}$ lbs., cost ?
4. From the difference between $\frac{9}{10}$ and $\frac{1}{8}$, take the sum of $\frac{1}{7}$ and $\frac{1}{6}$.

F 2.

1. Required the price of 3 cwt. 1 qr. 16 lbs., when 10 lbs. cost 19s. 11 $\frac{3}{4}$ d.
2. If £16 5s. 6d. buy 7 quarters of wheat, find the cost of 35 bushels.
3. What would the following articles cost:—2 fitches of bacon, each weighing 23 $\frac{1}{2}$ lbs., at 8 $\frac{1}{2}$ d. per lb. ; a leg of mutton, weighing 7 $\frac{3}{4}$ lbs. at 10 $\frac{1}{2}$ d. per lb. ; 7 $\frac{3}{4}$ lbs. of beef at 11 $\frac{1}{2}$ d. per lb. ; and a bladder of lard, weighing 8 $\frac{1}{2}$ lbs., at 10d. per lb.
4. Add $\frac{3}{4} + \frac{2}{5} + \frac{1}{8} + \frac{4}{6} + \frac{5}{9} + \frac{1}{2}$.

F 3.

1. Find the value of 745 $\frac{2}{3}$ tons at £4 9s. 10d. per ton.
2. A bill:—
 - 18 $\frac{1}{2}$ lbs. cheese at 10 $\frac{1}{2}$ d. lb.
 - 23 $\frac{1}{4}$ lbs. butter at 1s. 8d. per lb.
 - 4 doz. eggs at 4 for 6d.
 - 11 $\frac{1}{2}$ lbs. bacon at 11d. per lb.
 - 1 qr. 7 lbs. ham at 11 $\frac{3}{4}$ d. per lb.
3. A beam 24 feet long weighed 2160 lbs., what is the weight in cwts. of another as broad and as thick but 3 ft. 6 ins. longer ?
4. $\frac{2}{7} + \frac{3}{4} + \frac{1}{6} + \frac{1}{8} - \frac{2}{3}$.

F 4.

1. Find the cost of 3864 sq. poles, at £57 18s. 9d. per acre.
2. When 17 tons 15 cwt. of coal cost £17 7s. 7¼d., what quantity may be bought for £10 8s. 6¾d.?
3. Make out the following bill: 7 dozen knives and forks at 4s. 2½d. per dozen; 5 dozen teaspoons at 5½d. each; 6 metal tea pots, each weighing 2 lbs. 4 ozs., at 1s. 3½d. per lb.; 1 dozen spades at 2s. 7½d. each; and 10 fire shovels at 2s. 11½d. each.
4. From $(\frac{1}{8} + \frac{3}{7} + \frac{2}{5})$ take $(\frac{1}{4} + \frac{1}{8})$.

G 1.

1. Find the cost of 975½ articles, at £1 7s. 10d. each.
2. Arrange the following items in the form of a bill:—
¼ lb. tea at 3s. 9d.; 6½ lbs. sugar at 3½d.; 9 lemons at 2s. per dozen; 2½ doz. eggs at 5 for 6d.; 5 lbs. of butter at 1s. 9½d.
3. If I lose 1s. 7½d. on £6, how much shall I lose at the same rate of £26?
4. Take $\frac{1}{8}$ from $\frac{3}{4}$, and to the result add $\frac{2}{5}$, $\frac{9}{10}$, and $\frac{6}{7}$.

G 2.

1. If a gallon cost 3s. 4d., required the cost of 38 gals. 3 qts. 1½ pt. Work the sum by practice.
2. If 17 cwt. 4 lb. cost £10 15s. 6d., how much at the same rate could be bought for £1 6s. 11¼d.?
3. Make out this account:—13 skeins of silk at 2 for 2½d.; 174 buttons at 7d. a dozen; 3½ dozen yards of ribbon at 7¾d. per yard; 24 pieces of tape, each 12 yards long, at 3d. for 24 yards; 5¾ yards linen at 3s. 3d. a yard.
4. Add $\frac{7}{8} + \frac{3}{4} + \frac{2}{3} + \frac{1}{6}$, and then subtract $\frac{4}{5}$.

G 3.

1. Find the value of $7\frac{3}{4}$ tons at $5\frac{1}{4}$ d. per lb.
2. Make out and receipt the following bill :—
 13 quarts strawberries at 6d. per quart.
 19 quarts raspberries at 7d. per quart.
 3 stones gooseberries at 1s. 5d. per stone.
 $1\frac{1}{4}$ lbs. cherries at 3d. per lb.
 7 lbs. pears at $2\frac{1}{2}$ d. per lb.
3. I purchase salt at the rate of $2\frac{1}{2}$ d. for $3\frac{1}{2}$ lbs. ; how much will $\frac{3}{4}$ of a cwt. cost me ?
4. $\frac{7}{8} + \frac{3}{4} + \frac{2}{3} + \frac{5}{6} - \frac{1}{3}$.

G 4.

1. What is the value of $2010\frac{3}{5}$ acres of land at £47 17s. 3d. per acre ?
2. If $7\frac{1}{2}$ ounces of best tea cost 3s. $2\frac{3}{4}$ d., what is the value of 24 chests, each containing 1 cwt. $17\frac{3}{4}$ lbs. ?
3. Make out in proper form a bill for the following articles, and find what change there will be out of a £10 note given in payment for the same :— $6\frac{1}{2}$ lb. of butter at 1s. 5d. per lb. ; 3 doz. 11 eggs at 2 for $1\frac{1}{2}$ d. ; 7 fowls at 4s. 6d. a couple ; 3 turkeys, each 15lb. 10oz., at 10d. per lb. ; 4 ducks at 2s. 10d. each ; 5 geese at 7s. 11d. each.
4. Subtract $(\frac{1}{5} + \frac{2}{9})$ from $\frac{1}{4} + \frac{2}{5} + \frac{3}{4}$.

H 1.

1. Find the cost of $1056\frac{7}{8}$ articles at 18s. 9d. each.
2. Make out a bill for :— $7\frac{1}{2}$ lbs. beef at $10\frac{1}{2}$ d. ; $5\frac{1}{4}$ lbs. lamb at 1s. 2d. ; $3\frac{3}{4}$ lbs. steak at 1s. 4d. ; $10\frac{1}{8}$ lbs. mutton at 10d. ; $2\frac{1}{2}$ lbs. suet at $8\frac{1}{2}$ d.
3. If 11 acres 1 rood 15 poles let for £68 5s. 0d., what should the rent of 86 acres 3 roods 35 poles be at the same rate ?
4. $(\frac{7}{8} - \frac{3}{8})$ and add $\frac{1}{12}$ to the answer.

H 2.

1. Find by practice the cost of 9 yards, 3 qrs., $4\frac{1}{2}$ inches of velvet at 4s. 6d. a yard.
2. How many yards of merino, worth 3s. $7\frac{1}{2}$ d. per yard, should be given in exchange for $108\frac{1}{2}$ yards of silk, worth eighteen shillings and three half-pence per yard?
3. Calculate the amount due for rent on the following farm :—69 ac. 3 ro. 25 per. of pasture at £3 6s. 8d. per acre ; 10 ac. 1 ro. 15 per. of orchard at £4 3s. 4d. per acre ; 84 ac. 2 ro. $17\frac{1}{2}$ per. of arable land at £2 6s. 8d. per acre ; 2 ro. 20 per. of garden at £5 per acre ; and five cottages at £3 15s. 6d. each.
4. From $(\frac{5}{6} + \frac{1}{8})$ take $(\frac{1}{4} + \frac{1}{8})$.

H 3.

1. What is the tax on twelve hundred and fifty pounds at one shilling and threepence three farthings in the pound ?
2. A bill :—
 - $\frac{1}{2}$ stone tea at 3s. per lb.
 - 8 lbs. coffee at 1s. 8d. per lb.
 - $2\frac{1}{4}$ stones moist sugar at $3\frac{1}{2}$ d. per lb.
 - 13 lbs. lump sugar at $4\frac{3}{4}$ d. per lb.
 - 6 doz. oranges at 2 for $1\frac{1}{2}$ d.

3. What is the weekly rent of a room at the rate of £1 11s. 8d. for 19 days ?
4. From $(\frac{6}{7} + \frac{4}{5} + \frac{2}{3})$ take $(\frac{1}{2} + \frac{1}{4} + \frac{1}{3})$.

H 4.

1. Find the price of 35 qrs. 5 bush. of barley at £2 13s. 4d. a quarter. Work the sum by practice.
2. If a bankrupt pays 11s. $7\frac{1}{2}$ d. in the £, what will a creditor lose to whom £1,534 13s. 4d. was due ?
3. Make out and receipt a bill for the following :—
 - 6 cheeses, each 34 lbs., at $9\frac{1}{2}$ d. per lb. ; 6 dozen pounds of butter at 1s. $6\frac{1}{2}$ d. per lb. ; ten score of eggs at 1s. 6d. per dozen ; 47 lbs. of soap at $3\frac{1}{2}$ d. per lb. ; 11 lbs. of coffee at 1s. 10d. per lb.
4. From $\frac{5}{8}$ of an orange, take away $\frac{1}{6}$ and $\frac{2}{3}$; what remains ?

J 1.

1. Find the amount of a man's income for a year at five pounds fifteen shillings and sevenpence farthing per day.
2. Write out a bill for:— $2\frac{1}{2}$ gallons oil at $7\frac{1}{2}$ d. per quart; $\frac{1}{2}$ gallon paraffin at $2\frac{1}{2}$ d. per pint; 3 quarts turpentine at 4s. 3d. a gallon; $6\frac{1}{2}$ gallons vinegar at 2d. a pint; $2\frac{1}{2}$ stones white lead at 6d. a pound.
3. A clerk's salary is £146 per annum; what ought he to receive for 73 days' service?
4. From $\frac{1}{2} + \frac{5}{8} + \frac{7}{8}$ take $\frac{3}{4} + \frac{2}{3}$.

J 2.

1. 81 square yards 8 sq. feet 76 sq. inches, at 6s. per square yard.
2. If $12\frac{1}{2}$ yards of silk cost £6 1s. $10\frac{1}{2}$ d., what quantity can be bought for £3 10s. $8\frac{1}{4}$ d.?
3. Make out the following account, and state what change will be given if it is paid with a £5 note:—
 $1\frac{3}{4}$ lbs. of tea at 2s. 9d. a pound; 35 yards of calico at $6\frac{3}{4}$ d. a yard; $5\frac{3}{4}$ lb. of molasses at 3d. per lb.; 13 lbs. of sugar at $2\frac{3}{4}$ d. per lb.; $7\frac{1}{2}$ lb. of cheese at $8\frac{1}{2}$ d. per lb.; $18\frac{1}{4}$ yd. of flannel at 1s. 7d. per yard.
4. Subtract $(\frac{1}{5} + \frac{1}{8})$ from $(\frac{1}{10} + \frac{1}{4} + \frac{2}{3} - \frac{1}{3})$.

J 3.

1. Find the value of forty-eight dozen and six bottles of wine at six shillings and ninepence per bottle.
2. Make out a bill for 2 stones of bacon at 7d. per lb.; $11\frac{1}{2}$ lb. of veal at 11d. per lb.; two dozen kidneys at $3\frac{1}{2}$ d. each; $7\frac{3}{4}$ lb. of mutton at 10d. per lb.; 13 lb. of beef at $9\frac{1}{2}$ d. per lb.
3. If £4 5s. is the cost of 8 stones 8 lbs. of bacon, how much of the same can be bought for £2 8s. $10\frac{1}{2}$ d.?
4. Subtract one-seventh from one-half plus one-fifth.

GREATER SUCCESS IN ARITHMETIC
will be rendered almost certain, with less
WORRY AND ANXIETY,
now felt amongst Teachers and Scholars, by the use of
THE

QUARTERLY ARITHMETIC,

BY W. WATSON.

Specially prepared for the New Code 1885.

The arrangement has been tested, under the Mundella Code,
and the result was 99 per cent. in Arithmetic.

This Arithmetic has been published, at the urgent request
of many Practical Teachers, in order to place the following
advantages within the reach of all.

Every care which experience and information could sug-
gest has been taken

1. To provide a definite work for a given time.
2. To facilitate quarterly examinations.
3. To present an unusually large number of practical
exercises, within the Code requirements.
4. To prevent copying.
5. And to have the exercises properly graduated.

STANDARDS I. and II., 24 PAGES, PRICE 1d. each.
" III. " IV., 32 " " 1½d. "
" V. " VI., 48 " " 2d. "
STANDARD VII., PRICE 3d. each.

ANSWERS TO EACH STANDARD, IN CLOTH, THREEPENCE, NETT.

Watson's Quarterly Arithmetical Cards.

Compiled to accompany the Quarterly Arithmetic in order
to form the Quarters' Tests.

36 Cards, all different, with Two Copies of Answers, in
strong wrapper and elastic band.

PRICE ONE SHILLING.

See page 4 of Cover.

FOR THE NEW CODE, MARCH, 1885.

FIRST SERIES
INSPECTORS' ARITHMETICAL QUESTIONS,
BY W. WATSON.

Compiled from the *easier questions* given by Inspectors in the various districts since the Mandella Code came into operation.
Each Book contains 24 Pages, and 70 Examinations.
Standards II. to VI., ONE PENNY; Standard VII., TWOPENCE.
ANSWERS to each Standard, on vellum, 2d. nett.; Complete Answers, in cloth, 4d. nett.

SECOND SERIES
INSPECTORS' ARITHMETICAL QUESTIONS,
BY W. WATSON.

Compiled from the *more difficult questions* recently given by Inspectors in the various districts, for the New Code, March, 1885.
Each Book contains 24 pages, and 70 Examinations.
Standards II. to VI., 1d.; Standard VII., 2d.
Answers to each Standard, on vellum, 2d. nett.; complete answers, in cloth, 4d. nett.

GREATER SUCCESS IN ARITHMETIC will be rendered almost certain, with less **WORRY AND ANXIETY** now felt amongst Teachers and Scholars, by the use of
THE QUARTERLY ARITHMETIC,
BY W. WATSON.

| | | |
|------------------------|------------------|-----------------|
| STANDARDS I and II, | 24 PAGES, | PRICE 1d. each. |
| " III. " IV., | 32 " " | 1½d. " |
| " V. " VI., | 43 " " | 3d. " |
| STANDARD VII., | THREEPENCE each. | |

ANSWERS to each Standard in cloth, Threepence, Nett.

WATSON'S QUARTERLY ARITHMETICAL CARDS,
Compiled to accompany the QUARTERLY ARITHMETIC, in order to form the **QUARTERS' TESTS.**

36 Cards, all different, with Two Copies of Answers, in strong wrapper and elastic band.

PRICE ONE SHILLING.

The True Test Arithmetical Cards,
BY W. WATSON.

36 Cards, with Two Copies of Answers, in strong cloth case.

PRICE ONE SHILLING.

Pronounced by Practical Teachers to be the Best and most Practical Cards published.

Specimens of all, except answers, forwarded post free, for half price from W. Watson, St. Ignatius' Square, Preston.

Should Parties find it difficult to procure any of these Books through the Trade, they will be forwarded direct from the above address.