ACHIEVEMENT MENTAL ARITHMETIC

By H. E. HUMPHREYS, B.A.

PUPIL'S BOOK II

FOR

SENIOR SCHOOLS

A SERIES OF GRADUATED EXERCISES AND TESTS
FOR CULTIVATING
ACCURACY, SPEED AND INTELLIGENCE

SCHOFIELD & SIMS, LTD.
HUDDERSFIELD

EXERCISE I.

REVISION.

Set I.

1. Add $\frac{1}{2}$ dozen, $\frac{1}{2}$ score and $\frac{1}{2}$ gross .. ..
2. Take $\frac{1}{4}$ of a hundred from 5 dozen .. ..
3. What must be added to 59 to make 100 ? .. .. ..
4. How much short of 6 dozen is 7×8 ? .. .. ..
5. What is the remainder when 57 is divided by 9 ? .. ..
6. 20×19 .. ..
7. What must be paid for a dozen stamps at $1\frac{1}{2}$d. each ? ..
8. How many minutes are there from 8·37 a.m. to 9·17 a.m. ?
9. How many half-crown balls will £$1\frac{3}{4}$ buy ? .. .. ..
10. By how much is 3 quarters heavier than 5 stones ? ..

Set II.

1. Add 1/7, 2/6, $11\frac{1}{2}$d. .. ..
2. What will 10 ozs. of butter cost at 1/4 a lb. ? .. ..
3. How many times can a pint bottle be filled from 1 gallon 3 quarts ? .. ..
4. Write down : Seventeen thousand and ten .. ..
5. What is the cost of 3 dozen eggs at $1\frac{1}{2}$d. each ? .. ..
6. How many times can you pay 5d. from 7/6 ? .. ..
7. How much is left of a yard stick when a piece 9 inches long has been cut from it ? .. ..
8. A woman used 1 pint of milk each day through the month of June. At $2\frac{1}{2}$d. a pint, how much did it cost ? ..
9. Add $\frac{3}{8}$ shilling to $\frac{4}{5}$ of half a crown .. ..
10. How much more is £·75 than 7 florins ? .. .. ..

EXERCISE II.

REVISION.

Set I.

1. How much more is $\frac{1}{3}$ than $\frac{1}{5}$? .. ..
2. If a boy has $\frac{1}{4}$ of £$\frac{1}{4}$, how much money has he ? .. ..
3. How much is ·34 + ·26 short of 1 ? .. ..
4. Write in figures : thirty-one thousand, eight hundred and five .. ..
5. Find the cost of 1 dozen books at 10$\frac{1}{2}$d. each .. ..
6. What is the cost of 8 yards at 3/11$\frac{1}{2}$ a yard ? .. ..
7. How many 7 lb. bags can be filled from a sack holding $\frac{3}{4}$ cwt. ? .. ..
8. If bananas are 5 for 6d., what will 45 cost ? .. ..
9. How many pint bottles can be filled from a 5-gallon drum
10. A man bought eggs at 1$\frac{1}{4}$d. each and sold them at 1$\frac{1}{2}$d. each. How many must he sell to gain 1s. ? .. .. ..

Set II.

1. Write 7007 in words .. ..
2. Write down all the prime factors of 36 .. .. ..
3. Take the sum of 17 and 21 from 50 .. .. ..
4. What is the nearest number to 120 that will divide by 9 and leave no remainder ? .. ..
5. Counting 100 a minute, how long will it take to count 2000 ? .. ..
6. If 2 ft. 6 ins. of ribbon is cut from a piece 2 yards long, how many inches are left ? .. ..
7. How many minutes are there from 10·45 a.m. to 11·30 a.m. ?
8. One side of the classroom is 8 yards long, and the other is 6 yards. How far is it all round the walls ? .. ..
9. Find the cost of 2 chairs at 15/6 each .. .. ..
10. Add together : 3$\frac{1}{2}$d. ; 7$\frac{1}{2}$d. ; 4$\frac{1}{2}$d. .. ..

EXERCISE III.

FOUR RULES IN NUMBER : MONEY AND LENGTH : CHANGE.

Set I.

1. Take 64 from 100 .. ..
2. Calculate the change from 2/6 when 11½d. is spent ..
3. Deduct 1/5 from 10/- .. ..
4. What is the cost of ½ yard of silk at 5/11 a yard ? ..
5. There is an inch waste in cutting a yard of cloth into 7 equal parts. How long is each part ? .. .. ..
6. If a dozen rulers cost 3/9, what is the price of one ? ..
7. If a girl saves 2/6 a month, how much will she have saved at the end of 18 months ? .. ..
8. Take two from ten thousand .. ..
9. Add : 2/6½d. ; 7½d. ; 3/6 .. ..
10. A table measures 5 ft. 6 ins. × 4 ft. 6 ins. How far is it round the edges ? .. ..

Set II.

1. Find the cost of 25 buns at 1½d. each .. .. ..
2. Write in figures : eighteen thousand and eighteen ..
3. 34 + 25 − 18 .. ..
4. What is the cost of 6 coats at 19/11 each ? .. ..
5. 15 ÷ 1¼ .. ..
6. In what year will a boy be 20 years old, if he was 12 years old in 1935 ? .. ..
7. How many slabs 2 ft. 6 ins. long will be wanted to make a path 10 yards long ? .. ..
8. Take 12/8 from 15/4 .. ..
9. How many yards are there in 2 furlongs ? .. .. ..
10. How many ¼-inch lengths can be cut from ½ yard of wire ?

EXERCISE IV.

MONEY : WEIGHT : POSTAGE : ERRANDS.

Set I.

1. Find the cost of 1 lb. 7 oz. of beef at 1/4 a lb. .. ..
2. Letters 1½d. each, and postcards 1d. each. What would it cost to stamp 7 letters and 5 postcards ? .. ..
3. If a ton of wood costs 50/-, what will 1 cwt. cost ? ..
4. Carriage on 12 equal parcels totals 14/-. How much for each ? .. ..
5. If 3 biscuits weigh ½ oz., what is the weight of 36 ? ..
6. How many ounces are there in a 2½-lbs. bag of flour ? ..
7. Find the total weight of 40 2-oz. packets of tobacco ..
8. How much change out of 10/- will an errand boy receive who went for 4 2-lb. tins of paint at 8d. a lb. ? ..
9. 41 threepenny bits in a money-box. How much is that ?
10. What is the cost of 4 dozen lemons at 4 for 3d. ? .. ..

Set II.

1. Two Health stamps at 1/6 each and 3 Unemployment stamps at 9d. each. How much altogether ? .. ..
2. How much is $\frac{1}{15}$ of £1 ? .. ..
3. What fraction is 8/- of £1 ? .. ..
4. When roast meat is 2/- a lb., how much an ounce is it ? ..
5. Add thirteen to thirteen hundred .. ..
6. How much short of 1 ton is 15 cwt. 3 qrs. ? .. ..
7. If 3 pennies weigh an ounce, how much will 1/6 in coppers weigh ? .. ..
8. One ton of coal at 1/3 a cwt. .. ..
9. Three bags of wood at 10½d. each .. ..
10. What change out of £1, after spending 14/6½ ? .. ..

EXERCISE V.

FACTORS : FRACTIONS.

Set I.

1. What fraction is 4d. of 1/- ? .. ..
2. How much is £$\frac{1}{12}$? .. ..
3. What fraction is $\frac{1}{2}$ of $\frac{1}{5}$? .. ..
4. Which is greater $\frac{2}{3}$ or $\frac{3}{4}$? .. ..
5. Find (a) $\frac{2}{3}$ of a yard .. ..
   (b) $\frac{3}{4}$ of a yard. Give both in inches .. .. ..
6. What is the largest number that will divide into both 10 and 20 ? .. ..
7. Find the cost of 12 yards at 1/3 a yard .. .. ..
8. Three numbers multiplied together make 84. Three is one of them and four is another. What is the third number ?
9. A number multiplied by itself produces 1.21. What is the number ? .. ..
10. Reduce $\frac{40}{48}$ to its lowest terms .. ..

Set II.

1. What other factor besides 7 does 91 possess ? .. ..
2. Several numbers will divide into both 32 and 48. What is the largest of these numbers ? .. ..
3. A cart holds $\frac{3}{4}$ of a ton. How many cwts. is this ? ..
4. What is half of $\frac{3}{8}$? .. ..
5. $\frac{7}{8} - \frac{3}{4}$ .. ..
6. What fraction is 4 ozs. of 1 lb. ? .. ..
7. Simplify : $\frac{£10}{£2}$ .. ..
8. How many $\frac{1}{2}$ pints are there in $\frac{3}{4}$ gallon ? .. .. ..
9. What part of £1 is 6/8 ? .. ..
10. Find the cost of 24 chairs at 6/8 each .. .. ..

EXERCISE VI.

PRICE PER LB. FROM COST OF AN OUNCE : RECTANGLES : LENGTH : WEIGHT.

Set I.

1. Find the price of 1 lb. of China tea at $2\frac{1}{2}$d. an ounce ..
2. How much short of 1 lb. is $12\frac{1}{2}$ ozs. ? .. .. ..
3. A plank is 2 yards long and 5 inches wide. How far is it round its outside edges ? .. ..
4. What is the area of a rectangle 3 ins. $\times$ $2\frac{1}{2}$ ins. ? ..
5. One side of a pane of glass 1 sq. ft. in area is 8 ins. long. What length is the other ? .. ..
6. What dec. fraction has the same value as $\frac{3}{8}$? .. ..
7. Find the price of 1 lb. of tobacco at 8d. an ounce ..
8. How much must be added to $\frac{3}{4}$ to make 2 ? .. ..
9. 1 lb. of ham at $1\frac{3}{4}$d. an ounce .. ..
10. What is the value of ·1 of 5/- ? .. ..

Set II.

1. The top of a palm stand is a sq. ft. in area. If one side is 9 inches, what is the length of the other side ? .. ..
2. A boy took from 5·50 p.m. to 6·30 p.m. to deliver his papers. How long was this ? .. ..
3. How much is ·4 less than ·64 ? .. ..
4. What part of a cwt. is 84 lbs. ? .. ..
5. If 3 equal strips of carpet cover 13 yards, what is the length of each piece ? .. ..
6. Find the price of 4 yards of carpet at 4/6 a yard .. ..
7. How many stones (14 lbs.) are there in $\frac{1}{2}$ cwt. ? .. ..
8. If 20 equal parcels weigh 10 lbs., what is the weight of each ? .. ..
9. Add 14, 18, 32 .. ..
10. What is the greatest factor that both 42 and 18 have ? ..

EXERCISE VII.

FRACTIONS OF 1/- PREPARATORY TO COST PER DOZ. AND SCORE : COST PER LB. : PARTS OF £1.

Set I.

1. What fraction of 1/- is $7\frac{1}{2}$d. ? .. ..
2. Reduce 1/6 to the fraction of 1/- .. ..
3. How many 1/8 articles can be bought for £1 ? .. ..
4. How much money is each of the following: $1\frac{3}{4}$ shillings; £$1\frac{3}{4}$? .. ..
5. If coffee is $1\frac{1}{4}$d. an ounce, what will 1 lb. cost ? .. ..
6. What fraction is $10\frac{1}{2}$d. of 1/- ? .. ..
7. What sum of money is £$\frac{7}{8}$? .. ..
8. If $3\frac{1}{2}$ lbs. of bacon cost 4/1, how much will 7 lbs. cost ? ..
9. (a) What fraction is 8d. of 1/- ? .. ..
   (b) What sum of money is £$\frac{2}{3}$? .. ..
10. How many florins are of the same value as 4 half-crowns ?

Set II.

1. If a powder costs $3\frac{1}{2}$d. an oz., find cost of 1 lb. .. ..
2. Express as a decimal three-hundredths .. .. ..
3. If 120 children each pay 2d. for a tram ride, what is the cost of all their tickets ? .. ..
4. How many 2-oz. tablets of soap can be made from 3 lbs. ?
5. What would be paid for 2 articles at 1/$11\frac{1}{2}$d. each ? ..
6. If $1\frac{1}{2}$ times a sum of money is 2/-, what is the sum ? ..
7. How much is £$\frac{7}{8}$ more than £$\frac{3}{4}$? .. ..
8. 13×99 .. ..
9. How many plants at $7\frac{1}{2}$d. each can be bought for 2/6 ..
10. How much money is $\frac{4}{15}$ of £1 ? .. ..

EXERCISE VIII.

COST PER SCORE : FRACTIONS.

Set I.

1. Find the cost of a ton of coal at 1/9 per cwt. .. ..
2. If beef is 8d. a lb., what will 20 lbs. cost ? .. .. ..
3. What fraction is 3 cwts. of a ton ? .. ..
4. If 30 oranges cost 2/-, how many can be bought for 3/- ? ..
5. If 20 equal sacks of corn weigh 1 ton, what is the weight of each in stones ? .. ..
6. Write in figures : eighteen thousand and nine .. ..
7. Write 45 in Roman numerals .. ..
8. How many times will $\frac{1}{5}$ divide into $1\frac{3}{5}$? .. .. ..
9. When will a girl born in 1934 be 20 years old ? .. ..
10. What must be paid for $1\frac{1}{2}$ dozen pencils at $1\frac{1}{2}$d. each ? ..

Set II.

1. A carpenter is paid 1/4 per hour. What are his wages for 20 hours ? .. ..
2. Rate of pay = 1/6 per gross. How much is earned by a girl who makes 20 gross ? .. ..
3. When $3\frac{1}{2}$d. has been spent a boy has $\frac{3}{4}$ of his money left. How much did he have at first ? .. ..
4. How much money is $\frac{1}{2}$ of half a crown ? .. .. ..
5. If marbles are 8 for 1d., how much will a score cost ? ..
6. How many ounces are there in $1\frac{3}{8}$ lbs. ? .. .. ..
7. Take 2 ozs. from $\frac{3}{4}$ lb. How much remains ? .. ..
8. What is the cost of 1 lb. of coffee at $1\frac{1}{2}$d. an ounce ? ..
9. If a walk is begun at 5·5 p.m. and is finished $1\frac{1}{4}$ hours later, at what time is it finished ? .. ..
10. Four yards of serge at 6/11 a yard .. ..

EXERCISE IX.

GENERAL QUESTIONS AND REVISION.

Set I.

1. Add 20, 27 and 32 .. ..
2. Find the cost of 17 electric bulbs at 2/6 each
3. If 25 buns cost 1/6, what should be paid for 75 ? .. ..
4. What length is $\frac{1}{5}$ of 2 ft. 6 ins. ? .. ..
5. How much is 39 short of 70 ? .. ..
6. At 7d. an ounce, how much will 1 lb. cost ? .. ..
7. What is the area of a piece of paper 7 ins. $\times 5\frac{1}{2}$ ins. ? ..
8. After 15 eggs have been sold, $\frac{1}{4}$ of the original number remains. How many were there at first ? .. ..
9. If vinegar is 4d. a pint, how much will there be in a jar which has 2/2 worth of vinegar in it ? .. .. ..
10. How much is ·2 of 10 ? .. ..

Set II.

1. $25+25+25-24$ .. ..
2. (a) How many dozens can be made up from 170 ? ..
   (b) How many left over ? .. ..
3. Divide $\frac{3}{8}$ by 2 .. ..
4. Multiply ·4 by ·8 .. ..
5. If eggs are 9d. a dozen, how much each are they ? ..
6. Write in figures : thirty-seven thousand and five .. ..
7. 1 ft. 9 ins. is cut from a yard of string. What length remains ? .. ..
8. A boy sleeps for $\frac{3}{8}$ of each 24 hours. How many hours is he awake ? .. ..
9. What is the cost of 20 collars at 11d. each ? .. ..
10. Change 50 ins. into yds., ft. and ins. .. .. ..

EXERCISE X.

FACTORS : FRACTIONS : DECIMALS.

Set I.

1. By how much is $\frac{1}{2}$ greater than $\frac{1}{3}$? .. ..
2. How many buns at 2 for $1\frac{1}{2}$d. can be bought for 9d. ? ..
3. What is the largest number that will divide into both 36 and 48 without a remainder ? .. ..
4. What is the cost of 4 galls. 2 qts. at 2/6 a gall. ? .. ..
5. A man was 32 years old in 1935. In what year was he born ? .. ..
6. What decimal fraction has the same value as $\frac{1}{4}$? .. ..
7. Add together ·5 and ·35 .. ..
8. $\frac{8}{9} = \frac{x}{36}$ What is x ? .. ..
9. How many times does $\frac{1}{8}$ divide into $\frac{1}{2}$? .. .. ..
10. If each of 20 houses produces 8/6 a week rent, what is the total produced by all the houses ? .. .. ..

Set II.

1. Reduce $\frac{24}{48}$ to its lowest terms .. ..
2. $3\frac{1}{2} \times 6$ .. ..
3. Write $\frac{5}{8}$ as a decimal .. ..
4. Find the sum of $\frac{1}{5}$ and $\frac{1}{4}$ .. ..
5. Take $\frac{1}{6}$ from $\frac{1}{2}$ .. ..
6. A man sold 8 bicycles for £2 10s. each and gained £4. How much did he give for the lot ? .. ..
7. What is $1\frac{1}{2}$ times 5 ? .. ..
8. If 3 ozs. of tea cost 6d., what must be paid for 1 lb. 8 ozs.?
9. If $\frac{1}{4}$ of my money is 3/-, what is $\frac{1}{2}$ of it all ? .. ..
10. Subtract ·2 from 2 .. ..

EXERCISE XI.

112d. = 9/4 : EACH PENNY PER LB. IS 9/4 PER CWT. : SHARES : FACTORS.

Set I.

1. Find the price of 1 cwt. of sugar at 3d. a lb. .. ..
2. What is the cost of 1 cwt. at $4\frac{1}{2}$d. per lb. ? .. ..
3. How many ounces are there in 3 lbs. 10 ozs. ? .. ..
4. Find the price of 6 lbs. of potatoes at 4 lbs. for 3d. ..
5. Three tins of salmon at 1/9 each .. ..
6. Share 5/- between two girls, giving one 9d. for every 6d. the other has .. ..
7. What is the cost of 15 roses at 1/8 a score ? .. ..
8. What number multiplied by itself makes 81 ? .. ..
9. A man pays 2/6 a week in the year for a bicycle. How much does it cost him ? .. ..
10. What is the largest factor of both 35 and 21 ? .. ..

Set II.

1. Add 10/-, half-crown, a florin .. ..
2. Find the cost of 1 cwt. of carrots at $1\frac{1}{4}$d. a lb. .. ..
3. What fraction is 28 lbs. of 1 cwt. ? .. ..
4. Give the largest number that will divide into both 35 and 49 .. ..
5. The cost of a cycle lamp is twice the cost of a pump. Both together cost 6/-. What did each cost ? .. ..
6. What is the cost of 16 pencils at 9d. a dozen ? .. ..
7. Four times a sum of money, and one shilling extra, amount to 6/-. What is the sum of money ? .. .. ..
8. How many half-crowns are there in £1 12s. 6d. ? .. ..
9. If $\frac{1}{5}$ of a pole was in the ground and the part above ground was 12 ft. high, what was the full length of the pole ? ..
10. What is $\frac{1}{2}$ of $\frac{1}{6}$? .. ..

EXERCISE XII.

FRACTIONS: FOUR RULES: SHOPPING ITEMS.

Set I.

1. There are 22 boys in a class, and this is $\frac{11}{17}$ of the total number. How many are there in the class? .. ..
2. How much money is $\frac{1}{7}$ of a guinea? .. .. ..
3. What simple fraction equals this: $\frac{\text{3s. 6d.}}{\text{10s. 6d.}}$? .. ..
4. What part of a mile is 220 yards? .. ..
5. If 1/3 = $\frac{1}{16}$ of £1, what will 17 lbs. of cheese cost at 1/3 a lb.? .. ..
6. What is $\frac{1}{2}$ of $\frac{2}{3}$? .. ..
7. A book has 25 lines of print on each page. On which page will line 105 appear? .. ..
8. 4, 8, *, *, 64. What are the missing figures in the series?
9. A tank $\frac{3}{4}$ full contains 12 galls. of water. How much does it hold when full? .. ..
10. Add together 1·6, 1·9 .. ..

Set II.

1. What is the cost of 4 pairs of football boots at 5/6 a pair?
2. Find the cost of 10 lbs. of soap at $3\frac{1}{2}$d. a lb. .. ..
3. How many lbs. of sugar at $3\frac{1}{2}$d. a lb. can I buy for 1/2? ..
4. 30 lbs. of potatoes at 5 lbs. for $2\frac{1}{2}$d. .. ..
5. Two dozen oranges at $1\frac{3}{4}$d. each .. ..
6. 20 eggs at $1\frac{1}{2}$d. each .. ..
7. $1\frac{1}{4}$ yards of cloth at 4/6 a yard .. ..
8. 6 lbs. of honey at 1/8 a lb. .. ..
9. 6 lbs. of bacon cost 7/-. How much a lb. is this? ..
10. $\frac{3}{4}$ lb. of tea at 2/8 per lb. .. ..

EXERCISE XIII.

$\frac{3}{4}=\frac{1}{2}+\frac{1}{4}$: FRACTIONS.

Set I.

1. A child eats 1 oz. of butter each day during the month of June. What weight was this for the month ? .. ..
2. Find the total weight of 3 parcels, if each weighs 14 ozs. ..
3. If a ton costs £2, what will 11 cwts. cost ? .. ..
4. What is the cost of 1 gross of toys at 2 for $1\frac{1}{2}$d. ? ..
5. What fraction is 15/- of £1 ? .. ..
6. If 2/6 is $\frac{1}{8}$ of £1, what fraction is it of £2 ? .. .. ..
7. How much money is $\frac{1}{4}$ of half a crown ? .. .. ..
8. What fraction is 14 ozs. of 1 lb. ? .. ..
9. If a woman used $\frac{3}{8}$ of a gallon of milk, how many pints were used ? .. ..
10. If 56 lbs. $=\frac{1}{2}$ cwt., how many lbs. are there in $\frac{3}{4}$ cwt. ? ..

Set II.

$\frac{5}{8}=\frac{1}{2}+\frac{1}{8}$

1. Half a stone of potatoes = 7 lbs. How many lbs. are there in $\frac{3}{4}$ of a stone ? .. ..
2. How many half-pints are there in $\frac{1}{4}$ of a gallon ? .. ..
3. What length in ft. and ins. is $\frac{3}{4}$ of a yard ? .. ..
4. How many minutes are there in $1\frac{1}{4}$ hours ? .. ..
5. If $\frac{1}{2}$ lb. = 8 ozs., what part of 1 lb. is 10 ozs. ? .. ..
6. What distance is $\frac{1}{8}$ of a yard ? .. ..
7. How many pence are there in £$\frac{1}{8}$? .. ..
8. If $\frac{3}{8}$ of a load is $7\frac{1}{2}$ cwts., what is the full load ? .. ..
9. A parcel weighs $\frac{3}{8}$ of a lb. How many ounces are there in it ? .. ..
10. What sum of money is $\frac{3}{8}$ of £1 .. ..

EXERCISE XIV.

REVISION.

Set I.

1. Take 1 from one thousand .. ..
2. Make 3 equal flocks out of 125, using as many of them as possible. How many sheep will be left over ? .. ..
3. A man packs eggs in threes or fives. What is the smallest number he must have to be able to do this ? .. ..
4. A door is 7 ft. 6 ins. high and a window is 10 ins. taller than the door. How tall is the window ? .. .. ..
5. How many $\frac{1}{10}$ are there in $\frac{1}{2}$? .. ..
6. How many square yards are there in $\frac{1}{2}$ an acre ? .. ..
7. The average weight of an egg is 2 ozs. What is the weight of 1 dozen ? .. ..
8. If 11 lbs. of apples cost 5/6, what is the cost per lb. ? ..
9. Write $\frac{2}{5}$ as a decimal .. ..
10. 19s. $11\frac{1}{2}$d. $\times$ 6 .. ..

Set II.

1. If 13 lbs. of bacon cost 15/2, what will $6\frac{1}{2}$ lbs. cost ? ..
2. Rent is 12/3 a week. How much is that for 4 weeks ? ..
3. Express $1\frac{1}{5}$ as a decimal .. ..
4. What number do these letters stand for : XL ? .. ..
5. What sum multiplied by 5 amounts to 12/1 ? .. ..
6. What weight is 4 lbs. less than a ton ? .. .. ..
7. How many minutes are there from 8·57 a.m. to 10·3 a.m.?
8. If $\frac{1}{4}$ of a number is 16, what is $\frac{1}{8}$ of it ? .. .. ..
9. If 11 tram rails are 154 yards long, what is the length of each one ? .. ..
10. How many shillings are equal to £2 and 2 half-crowns ? ..

EXERCISE XV.

REVISION.

Set I.

1. If a boy saves 1/6 a week, how much is that for a year? . .
2. Simplify (a) $\frac{2\frac{1}{2}}{1\frac{1}{4}}$, (b) $\frac{£3\ 10s.}{£10\ 10s.}$ . . . . . .
3. A man buys a motor-cycle for £20 and sells it for £25. How much does he gain per cent. ? . . . . .
4. Take 38 from 500 . . . . . .
5. Find the cost of 960 toys at $\frac{1}{2}$d. each . . . . .
6. If a dozen cups cost 3/9, what is the price of 2 cups ? . .
7. 8/10$\frac{1}{2}$ is spent out of 13/6. How much change ? . . . .
8. When 1 cwt. of wood costs 1/3, what will a ton cost ? . .
9. How many bottles, each holding 1 pint, can be filled from $2\frac{1}{2}$ gallons ? . . . . . .
10. 13+11−8+32 . . . . . .

Set II.

1. Take 51 from 1000 . . . . . .
2. When you have read $\frac{2}{3}$ of a book of 360 pages, how many pages have you still to read ? . . . . .
3. What is the cost of 24 hats at 6/8 each ? . . . . .
4. Find the cost of 20 coats at £1 15s. each . . . . .
5. How many bags of corn, each 14 lbs., can be made from 1 cwt. ? . . . . . .
6. If $\frac{1}{2}$ a boy's money is 3d. more than $\frac{1}{4}$ of it, how much money has he ? . . . . . .
7. How much is left when 3 pints have been taken from 2 gallons ? . . . . . .
8. If 4 apples cost 3d., what is the cost of 4 dozen ? . . . .
9. If 3 lbs. of bacon cost 4/3, how much will 4 lbs. cost ? . .
10. A son is 3 years older than $\frac{1}{4}$ of his father's age. If the father is 40, how old is the son ? . . . . . .

EXERCISE XVI.

PERCENTAGES : FRACTIONS : DECIMALS.

Set I.

1. Write $\frac{1}{4}$ as a decimal .. ..
2. If 1 apple out of every 4 is large, how many large ones will there be in 100 ? .. ..
3. Write $\frac{1}{5}$ as a decimal and a percentage .. .. ..
4. Convert $\frac{1}{8}$ to a percentage .. ..
5. (a) What fraction is 3d. of 9d. ? (b) What % is 3d. of 9d. ?
6. What number is 20% of 30 ? .. ..
7. How much is $2\frac{1}{2}$% of £1 ? .. ..
8. What weight is 5% of 1 ton ? .. ..
9. What fraction has the same value as $16\frac{2}{3}$% ? .. ..
10. (a) What fraction is 2/3 of 9/- ; (b) What % is 2/3 of 9/- ? ..

Set II.

1. If 5% of £1 is 1/-, how much is $7\frac{1}{2}$% of £1 ? .. ..
2. Write down (a) $\frac{1}{8}$ of £1 (in s. and d.) ; (b) $\frac{1}{8}$ of 1 ton (in cwts.) .. ..
3. Change $\frac{3}{10}$ into a decimal and a percentage .. ..
4. If $\frac{3}{10}$ = ·3, what decimal fraction equals $\frac{3}{20}$? .. ..
5. $\frac{8 \text{ ozs.}}{1 \text{ lb.}}$ Write this as a fraction and also as a % .. ..
6. What fraction has the same value as $12\frac{1}{2}$% ? .. ..
7. If a man works 8 hours out of 24, what % of the day is he at work ? .. ..
8. (a) What fraction is 3/- of 5/- ? (b) What % is it ? ..
9. Which is the greater fraction, $\frac{3}{7}$ or $\frac{3}{8}$? .. .. ..
10. By how much % is 25% greater than $\frac{1}{5}$? .. .. ..

EXERCISE XVII.

RECTANGLES : PERCENTAGE : PROFIT AND LOSS.

Set I.

1. A window-pane is 10 ins. $\times$ $8\frac{1}{2}$ ins. What is its area ? . .
2. Which is greater, £1 a day or £7 a week for a year ? . .
3. A rectangular floor is 24 yds. $\times$ 5 yds. What is its area ? . . . . . .
4. A ham weighing 24 lbs. is bought for 14/- and is sold at a profit of 2d. per lb. What was the gain ? . . . .
5. If 19/- out of £1 has been spent, what % remains ? . .
6. A rectangular piece of wood is 1 sq. ft. in area. One side is 8 ins. What is the length of the other side ? . .
7. How much is 3 sq. ft. less than 1 sq. yd. ? . . . . . .
8. Bought at 3/- a lb., sold at 3d. an ounce, what is the profit on 6 lbs. ? . . . . . .

Set II.

1. A man earns £100 a year and spends 89% of it. How much does he save each year ? . . . . . .
2. What is 20% of £250 ? . . . . . .
3. If $2\frac{1}{2}$% interest has been received for 4 years, what is the total amount of interest received ? . . . . .
4. Oranges bought at 9d. a dozen are sold at 1d. each. How much is gained on 60 oranges ? . . . . . .
5. If 1/3 is gained on 3/9, what per cent. is this ? . . . .
6. Lamp-posts are 55 yards apart. How far is it from the 1st to the 4th lamp ? . . . . . .
7. 30×25 . . . . . .
8. In 1935 a man was 40 years old. In what year was he born ? . . . . . .

EXERCISE XVIII.

SIMPLE INTEREST : % : MISCELLANEOUS.

Set I.

1. If the bank pays 3% interest, how much would a person receive who has £75 in the bank for a year ? .. ..
2. How much interest per year equals 2/6 a week ? .. ..
3. What fraction has the same value as $2\frac{1}{2}$% ? .. ..
4. The divisor is 6, the quotient is 14, and the remainder is 4. What is the number which has been divided ? .. ..
5. How much in the £ equals a discount of 15% .. ..
6. What number multiplied by $\frac{1}{3}$ gives 4 ? .. .. ..
7. What is 6% of 150 sheep ? .. ..
8. If interest is $2\frac{1}{2}$%, what will £8 gain each year ? .. ..
9. When $\frac{4}{5}$ of a class are present, there are 8 absent. How many children are there in the class ? .. .. ..
10. What is the least number divisible by 5, 6, and 4 ? ..

Set II.

1. An article made for 16/- was sold for 12/-. What was the loss per cent. ? .. ..
2. How many sq. yds. are there in $\frac{1}{4}$ acre ? .. .. ..
3. What is the least number that must be taken from 100 to make it exactly divisible by 8 ? .. ..
4. If $2\frac{1}{2}$% = 6d. in the £, what would be the value of $7\frac{1}{2}$% ? ..
5. 176 pencils at $1\frac{1}{2}$d. each .. ..
6. A man smokes two shilling packets of cigarettes each week. How much does this amount to in a year ? ..
7. What fraction of £1 is $1\frac{1}{2}$d. ? .. ..
8. $1\frac{1}{2}$ lbs. of butter at 1/6 a lb. .. ..
9. $\frac{3}{4}$ lb. of tea at 2/4 a lb. .. ..
10. If cheese is 1/- a lb., what will 9 ozs. cost ? .. ..

EXERCISE XIX.

MISCELLANEOUS.

Set I.

1. If 4 lbs. of potatoes cost 3d., what will 1 quarter cwt. cost?
2. 3 lbs. 4 ozs. of beef at 1/4 a lb. .. ..
3. $2\frac{1}{2}$ lbs. of sausage at 1/2 a lb. .. ..
4. 250 envelopes at 25 for 6d. .. ..
5. How many times can you pay out £2 10s. from £15 ? ..
6. Express $\frac{1}{10}$ and $\frac{1}{20}$ as decimals .. ..
7. Write in figures : eighty thousand and eighteen .. ..
8. What number is LVIII ? .. ..
9. 24 toys at $3\frac{1}{2}$d. each .. ..
10. How many minutes are there from 9·15 a.m. to 11 o'clock ?

Set II.

1. If a child has a bottle of milk each day during June, what will be the cost at $\frac{1}{2}$d. a bottle ? .. ..
2. How many yards are there in $\frac{3}{8}$ of a mile ? .. ..
3. What is the cost of 120 pencils at $\frac{1}{2}$d. each ? .. ..
4. $\cdot 3 \times 4$ .. ..
5. How much change out of 10/- after spending $7/6\frac{1}{2}$? ..
6. $\frac{3}{4} + \frac{1}{2} - \frac{1}{4}$ .. ..
7. Express $\frac{5}{8}$ as a decimal and a % .. ..
8. What is the cost of 3 yards of silk at 4/11 a yard ? ..
9. A train travels at the rate of 60 miles an hour for $2\frac{1}{2}$ hours. How far does it go ? .. ..
10. A room is 16 ft. long and 12 ft. wide. What is its area ? .. ..

EXERCISE XX.

REVISION.

Set I.

1. If 24 pupils passed out of 50, what % was this ? .. ..
2. How many times does 9 divide into 18×12 ? .. ..
3. If 5 lbs. of fish cost 4/2, what will $7\frac{1}{2}$ lbs. cost ? .. ..
4. If eggs are 1/9 a dozen, how much is that for one ? ..
5. Take 10% off £3 10s. What is the reduction ? .. ..
6. How long is a piece of cloth costing £1 12s. 6d. at 2/6 a yd. ? .. ..
7. $\cdot 6 \times \cdot 7$ .. ..
8. Take two from two thousand .. ..
9. A car travels 30 m.p.h. How far will it go from 10·50 a.m. to 12 noon ? .. ..
10. Simplify : $\frac{£12\ \ 10s.}{£2\ \ 10s.}$ .. ..

Set II.

1. Take ·36 from 1 .. ..
2. When 45 is multiplied by a certain fraction the result is 5. What is the multiplier ? .. ..
3. Reduce 1/3 to the decimal of 10/- .. ..
4. If 15 yards of cloth cost 10/6, how much could be bought for 3/6 ? .. ..
5. If $\frac{1}{11}$ of $5\frac{1}{2}$ score of oranges are bad, how many good ones will there be ? .. ..
6. $\cdot 8 + \cdot 59$ .. ..
7. Tax is 9d. in the £. What will it be on £30 ? .. ..
8. If 4 gallons of spirit at 10/- a gallon have one gallon of water added, what is the value of the mixture per gallon ?
9. $35 + 36 - 37$ .. ..
10. $201 \div 9$ .. ..

EXERCISE XXI.

REVISION.

Set I.

1. Find the sum of 13, 15, 17, 19 .. ..
2. Divide 80 into two parts, making one part 3 times the other
3. Ten times a number amounts to 5. What is the number ?
4. Write the following as a fraction : $\frac{2 \text{ ft.}}{1 \text{ yd. } 2 \text{ ft.}}$ .. ..
5. How many square feet in a table-cloth 5 ft. $\times 3\frac{1}{2}$ ft. ?
6. How many $\frac{1}{16}$'s are there in $\frac{1}{8}$ .. ..
7. What is 5% of 4000 ? .. ..
8. Find the cost of 1 lb. of wool at $5\frac{1}{2}$d. an ounce .. ..
9. $\cdot 7 \times \cdot 6$ .. ..
10. If 4 books cost x shillings, what will 8 cost ? .. ..

Set II.

1. A family uses 1 pint of milk each day. How much would this be for the month of March ? .. ..
2. A boy, 14 years old, left school in 1934. In what year was he born ? .. ..
3. What is the value of ·9 of £1 ? .. ..
4. Find the value of ·1 of 5/- .. ..
5. If $\frac{1}{20} = \cdot 05 = 5\%$, write out the values for $\frac{1}{40}$ .. ..
6. Divide 3/- into two parts, making one 6d. more than the other .. ..
7. If $\frac{2}{3}$ of a flock of sheep is 34, how many in the flock ? ..
8. What is the largest number that will divide into both 36 and 48 ? .. ..
9. How much money is $\frac{15}{16}$ of £1 ? .. ..
10. If coal is 1/2 per cwt., what will a ton cost ? .. ..

EXERCISE XXII.

REVISION.

Set I.

1. Take the sum of 37 and 38 from 100 .. .. ..
2. Divide £1 equally among 6 children .. .. ..
3. What is $\frac{1}{2}$ of $\frac{3}{8}$? .. ..
4. A 4-lb. loaf is half an ounce short weight. What is its actual weight? .. ..
5. CIV. What number is this? .. ..
6. What quantity must be added to $13\frac{1}{4}$ ozs. to make 1 lb.? ..
7. If vinegar is $3\frac{1}{2}$d. a pint, what must be paid for 2 qts.? ..
8. Four equal strips of carpet cover 15 yards of floor. What is the length of each strip? .. ..
9. Find the cost of 150 envelopes at 25 for 4d. .. ..
10. $\frac{2}{5}$ of a girl's weekly wage is 4/-, what is her total wage? ..

Set II.

1. Write in figures: thirty-five thousand and ten .. ..
2. Take $\frac{1}{5}$ of forty from 100 .. ..
3. Find the cost of 3 score of eggs at 1/6 per dozen .. ..
4. Express $\frac{3}{5}$ as a decimal .. ..
5. Simplify: $\frac{\text{15s. 0d.}}{\text{7s. 6d.}}$ .. ..
6. A cricketer scores 324 runs in 8 innings. What is his average score for each innings? .. ..
7. An envelope is 15 sq. ins. in area. If it is 6 ins. long, how wide is it? .. ..
8. Take 740 from 1000 .. ..
9. If 5% of a sum of money is worth 4/6, how much will $2\frac{1}{2}$% of it be worth? .. ..
10. A 10/- note is put down to pay for two bills, 3/8 and 4/6. How much change will there be? .. ..

EXERCISE XXIII.

AVERAGES : SHARES : % : S.I.

Set I.

1. One bicycle costs £5, another £4. What is their average cost? .. ..
2. What is the average of 12, 13, and 14? .. .. ..
3. Two knives together cost 2/-, but one cost as much again as the other. What was the cost of each? .. .. ..
4. If 5% interest equals £3, what will $7\frac{1}{2}$% be? .. ..
5. Express 1 furlong as a % of a mile .. ..
6. How much is the interest on £52 for a year at $2\frac{1}{2}$%? ..
7. Reduce $\frac{9d.}{1s.\ 6d.}$ to a fraction .. ..
8. What is the cost of $2\frac{1}{2}$ lbs. of bacon at 1/4 a lb.? ..
9. What is the average of 1/9 and 2/-? .. .. ..
10. Divide 200 into two parts, making one part 3 times as much as the other .. ..

Set II.

1. Find the S.I. on £200 for 2 years at 3% .. .. ..
2. What is the sum of $\frac{1}{8}$ and $\frac{1}{4}$? .. ..
3. If $\frac{3}{4}$ of a road 2 miles in length is repaired, what length is not mended? .. ..
4. How many 4-in. strips of wood can be cut from a piece which is 1 yard wide? .. ..
5. Find the cost of $2\frac{1}{2}$ dozen papers at 2d. each .. ..
6. If 16 articles cost £1, what must be paid for 7 of them? ..
7. Take ·35 from 1 .. ..
8. Find the cost of 12 ozs. of wool at 4s. a lb.? .. ..
9. After paying for 3 articles at 1/2 each, how much change will there be out of 5/-? .. ..
10. If $2\frac{1}{2}$% amounts to 4s., what will $3\frac{3}{4}$% be? .. ..

EXERCISE XXIV.

Set I.

1. What is the cost of 100 stamps at $1\frac{1}{2}$d. each ? .. ..
2. Divide $14/3\frac{1}{2}$ by 7 .. ..
3. Find the cost of 100 feet of wood at $3\frac{1}{2}$d. a foot .. ..
4. What must be paid for 17 shrubs at 2/6 each ? .. ..
5. From 15×12 take 3 score .. ..
6. Write 66 in Roman numerals .. ..
7. If a dozen electric bulbs cost 10/6, how much each is that ?
8. What must be paid for 150 oranges at 5 for 6d. ? .. ..
9. What fraction is $\frac{3}{4}$d. of 1/- ? .. ..
10. Find the cost of 100 boxes at $2\frac{3}{4}$d. each .. .. ..

Set II.

1. Write in figures : seventeen thousand and seventeen ..
2. If 15 men dig a drain in 8 days, how long would 10 men take to do it ? .. ..
3. How much money would be needed to pay 100 men 2/6 each ? .. ..
4. $3\frac{3}{4} \times 6$ .. ..
5. $\cdot 6 + \cdot 32$ .. ..
6. Take 1 from eleven thousand .. ..
7. Take $\frac{1}{8}$ from $\frac{3}{4}$ .. ..
8. If a ton of sand costs 4/-, what should be paid for 2 tons 5 cwts. ? .. ..
9. If 1 cwt. of cement costs 3/6, what will 8 cwts. cost ? ..
10. $\cdot 5 \times \cdot 5$ .. ..

EXERCISE XXV.

GENERAL QUESTIONS.

Set I.

1. Write 48 in Roman numerals .. ..
2. Take 5/10½ from 12/- .. ..
3. How many square feet are there in a carpet which measures 5 ft. by 2¾ ft. ? .. ..
4. How many 1½d. stamps can be bought for 3/6 ? .. ..
5. If a dozen toys cost 9/9, how much each are they ? ..
6. How many ½-oz. packets can be made from 1 lb. 8 ozs. ?..
7. What is the cost of 100 eggs at 1¼d. each ? .. ..
8. How much must be paid for 30 railway tickets at 1/4 each ?
9. In 1934 a boy was 12 years old. In what year will he be 21 years old ? .. ..
10. Take 34+43 from 80 .. ..

Set II.

1. Add ¼ and ⅕ .. ..
2. Take ·35+·45 from 1 .. ..
3. ·4×·9 .. ..
4. A table-cloth is 4 ft. long and 3½ ft. wide. What is its area ? .. ..
5. How much will 144 Jaffa oranges cost at 2d. each ? ..
6. If 3 pairs of stockings cost 7/6, what will 1 dozen cost ? ..
7. What fraction of 1/- is 1¼d. ? .. ..
8. Find the cost of 8½ gallons at 2/6 a gallon .. .. ..
9. A train starts at 7·5 a.m. and stops 1½ hours later. At what time did it stop ? .. ..
10. How many 4-lb. packets of flour can be made from 1¼ cwts. ?

EXERCISE XVI.

SHOPPING EXERCISES.

Set I.

1. 1½ lbs. of steak at 1/6 a lb. .. ..
2. 3 lbs. 1 oz. of mutton at 1/4 a lb. .. ..
3. 1 lb. 4 ozs. of salmon at 2/- a lb. .. ..
4. 4 packets of matches at 10½d. a packet .. .. ..
5. 5 yards of cloth at 1/11 a yard .. ..
6. 3 collars at 9½d. each .. ..
7. 1 chicken, 3½ lbs. weight, at 1/3 a lb. .. .. ..
8. 3 yards of rubber tubing at 3d. a foot .. .. ..
9. 4 ozs. of butter at 1/2 a lb. .. ..
10. 6 lbs. of onions at 2 lbs. for 2½d. .. ..

Set II.

1. 8 eggs at 2 for 3½d. .. ..
2. 12 yards of ribbon at 2¾d. a yard .. ..
3. 2¼ dozen oranges at 3 for 4d. .. ..
4. 3 jars of marmalade at 10½d. each .. ..
5. 1½ gallons of oil at 2/- a quart .. ..
6. 1 cwt. of coal at £2 a ton .. ..
7. 1½ lbs. of bacon at 1/3 a lb. .. ..
8. 24 buns at 2 for 1½d. .. ..
9. ¼ yard of material at 3/6 a yard .. ..
10. One oak post, 6 feet high, at 3½d. a foot .. .. ..

EXERCISE XXVII.

SHOPPING EXERCISES.

Set I.

1. $1\frac{1}{2}$ lbs. of Cheshire cheese at 9d. a lb. .. .. ..
2. $\frac{3}{4}$ lb. of tea at 2/8 a lb. .. ..
3. $1\frac{1}{2}$ lbs. of mushrooms at 1/8 a lb. .. ..
4. 1 lb. 12 ozs. of plaice at 1/4 a lb. .. ..
5. A pork pie, $1\frac{1}{4}$ lbs., at 1/2 a lb. .. ..
6. 6 lbs. of sugar at 2 lbs. for $4\frac{1}{2}$d. .. ..
7. 3 tablets of soap at $6\frac{1}{2}$d. each .. ..
8. 8 ozs. of coffee at 2/6 a lb. .. ..
9. $1\frac{1}{2}$ lbs. of Empire butter at 10d. a lb. .. .. ..
10. 3 lbs. of prunes at 7d. a lb. .. ..

Set II.

1. $1\frac{1}{4}$ lbs. of steak at 1/6 a lb. .. ..
2. 14 ozs. of ham at 2/8 a lb. .. ..
3. $2\frac{1}{2}$ lbs. of Canadian salmon at 1/6 a lb. .. .. ..
4. 4 loaves at $4\frac{1}{2}$d. each .. ..
5. 3 score of eggs at 1/2 a dozen .. ..
6. 6 pints of milk at 7d. a quart .. ..
7. 3 bottles of sauce at $7\frac{1}{2}$d. each .. ..
8. 6 bags of flour at $4\frac{1}{2}$d. each .. ..
9. 1 pint of vinegar at 6d. a quart .. ..
10. 15 cakes at 3d. each .. ..

EXERCISE XXVIII.

PROPORTION : % : FRACTIONS.

Set I.

1. If 3 articles cost 3/6, what is the price of 4 of them ? ..
2. How many 9d. tickets can be bought for 3/9 ? .. ..
3. In 10 minutes a man walks $\frac{3}{4}$ of a mile. How far would he walk in an hour at this rate ? .. ..
4. How much is 5% of 120 ? .. ..
5. Simplify : $\frac{1 \cdot 3}{13}$ .. ..
6. How many lbs. are there in $\frac{5}{8}$ of 1 cwt. ? .. .. ..
7. Add £$\frac{1}{3}$ and $\frac{1}{3}$ shilling .. ..
8. If 15% of a sum of money is 6/6, how much is $2\frac{1}{2}$ % ? ..
9. How much is $\frac{5}{6}$ greater than $\frac{2}{3}$? .. ..
10. What % equals a reduction of 2d. in the shilling ? ..

Set II.

1. What fraction is 1/3 of £2 ? .. ..
2. Simplify : $\frac{14 \text{ lbs.}}{1 \text{ cwt.}}$ .. ..
3. How much is 5% of £1 ? .. ..
4. After spending $\frac{5}{6}$ of her money, a girl has 8d. left. How much had she at first ? .. ..
5. Coal was bought at £1 5s. a ton, and sold at £1 10s. What was the gain % ? .. ..
6. A dividend is 1/8 in the £. What will be paid on £12 ? ..
7. Reduce 1 ft. 3 ins. to the fraction of 1 yard .. ..
8. A man bought 8 sheep for £10, then bought 6 more at the same rate. What did he pay for the 6 ? .. ..
9. How much money is £2·75 ? .. ..
10. By how much is ·8 greater than $\frac{3}{4}$? .. .. ..

EXERCISE XXIX.

MISCELLANEOUS.

Set I.

1. $\cdot 05 \times 6$ .. ..
2. How many days are there in August, September and October ? .. ..
3. Take the sum of 22, 26 and 28 from 100 .. .. ..
4. In 6 games a boy scored 85 runs. What was his average score ? .. ..
5. Add forty to four thousand .. ..
6. One dozen ties at 1/9 each .. ..
7. How many bars of iron, each 7 lbs., will it take to make 1 cwt. ? .. ..
8. 9 railway tickets at 5/6 each .. ..
9. If 2 qts. 1 pt. is added to 2 galls., how many pints would there be in the lot ? .. ..
10. Add together £·5, ·5/-, ·5d. .. ..

SURREY COUNTY COUNCIL

Set II.

1. A rope is 720 inches long. How many yards is that ? ..
2. How much is 5 days 13 hours short of a week ? .. ..
3. If 3 stone 7 lbs. of tea was made into $\frac{1}{2}$-lb. packets, how many would there be ? .. ..
4. In a box of apples $\frac{1}{8}$ of them are bad, and there are 21 good ones. How many are there altogether in the box ? ..
5. $\cdot 4 \times \cdot 4$ .. ..
6. In a cafe $\frac{1}{2}$ cwt. of sugar was used each day. How much did it cost at 2d. a lb. ? .. ..
7. How much money is £·8 ? .. ..
8. What is the cost of 80 books at 6d. each ? .. .. ..
9. How many inches are there in x yards ? .. .. ..
10. $36 \times \frac{3}{4}$ .. ..

EXERCISE XXX.

GENERAL QUESTIONS.

Set I.

1. Add 14, 27 and 36 .. ..
2. 1—·1 .. ..
3. 5·5 × 4 .. ..
4. What fraction of 1/- is 3½d. ? .. ..
5. How many times is $\frac{1}{10}$ contained in $\frac{1}{2}$? .. .. ..

Eight pieces, each 2 ft. 6 ins. in length, are cut from a ball of string. What length has been cut off ? .. ..

7. If a piece 8 ins. by 6 ins. has been cut from a sq. ft., how much remains ? .. ..
8. How much is 10% of £15 ? .. ..
9. How many minutes are there from 9·30 a.m. to 10·45 a.m. ?
10. What decimal fraction of £1 is 11/- ? .. .. ..

Set II.

1. A shop-soiled motor-cycle worth £40 was sold for £30. What percentage was the reduction ? .. .. ..
2. If a copying pencil costs 3½d., what will 3 dozen cost ? ..
3. A dozen caps were sold wholesale for 9/9. How much each was that ? .. ..
4. How many 1½d. stamps can you buy for 1/7½d. ? .. ..
5. What number is LIX ? .. ..
6. If milk is 6d. a quart, what will 1½ gallons cost ? .. ..
7. Three books of the same kind cost 3/7½d. What is the price of one ? .. ..
8. When coal is 1/4 a cwt., what is the price of a ton ? .. ..
9. Find the cost of 20 eggs at 2 for 2½d. .. .. ..
10. Take 6 × 1¼ from 10 .. ..

EXERCISE XXXI.

MENSURATION : % : FRACTIONS.

Set I.

1. Find the area of a rectangular lawn 14 yds. by 9 yds. .. ..
2. Four equal-sized gardens together make $\frac{1}{2}$ an acre. What is the size of each ? .. ..
3. A milk-churn holds 17 galls. when full. What quantity remains when $\frac{3}{4}$ has been sold ? .. ..
4. How much is 10% deposit on a house worth £450 ? ..
5. If $x+3=11$, what is the value of x ? .. .. ..
6. How many square yards will a carpet 12 ft. $\times$ 9 ft. cover ?
7. What fraction is $7\frac{1}{2}$d. of 1/- ? .. ..
8. What is 5% of 60 ? .. ..
9. Write 60% as a fraction (lowest terms) .. .. ..
10. Find the cost of $2\frac{1}{2}$ lbs. of bacon at 1/4 a lb. .. ..

Set II.

1. A door is 7 ft. high and is drawn to the scale of $1\frac{1}{2}$ ins. to a foot. What is the height of the drawing ? ..
2. A piece of paper 1 sq. ft. in area is divided into 8 equal portions. How many sq. ins. are there in each part ? ..
3. $20 \times 4\frac{1}{2}$ .. ..
4. What is $2\frac{1}{2}$% of 500 ? .. ..
5. How much is 5% discount off an article marked £3 ? ..
6. By how much does 2 ins. square exceed 2 sq. ins. ?
7. If 14/$6\frac{1}{2}$ is spent out of £1, how much is left ? .. ..
8. 20% of a sum of money is 14/-. What is the full amount ?
9. If a painter earns 1/6 an hour, how much is that for 9 hours ? .. ..
10. 6/8 $\times$ 21 .. ..

EXERCISE XXXII.

AREAS : DECIMALS : FRACTIONS : PERCENTAGES.

Set I.

1. If toys are 5/- per 100, what must be paid for 250 ? ..
2. $\cdot 25 \times 8$ .. ..
3. A piece of writing-paper is 12 ins. by 8 ins. Into how many 4-in. squares can it be divided ? .. ..
4. Take ·04 from 1 .. ..
5. If $7\frac{1}{2}$ yds. cost 14/6, what should be paid for $2\frac{1}{2}$ yds. ? ..
6. If there are 13 steps, and each step is 7 ins. high, what is the distance from the bottom to the top ? .. ..
7. How much money is $12\frac{1}{2}\%$ of £1 ? .. ..
8. What fraction multiplied by 4 equals $\frac{1}{2}$? .. .. ..
9. What is $12\frac{1}{2}\%$ of 1000 ? .. ..
10. If a dozen pans cost 10/6, how much each are they ? ..

Set II.

1. What fraction is $\frac{1}{2}$ of $\frac{3}{4}$? .. ..
2. What is the value of $1\frac{1}{2}$ lbs. of coffee at 2/6 a lb. ? .. ..
3. A paper is $3\frac{1}{2}$ ins. wide and 5 ins. long. What is its area ? .. ..
4. What is the value of 23 railway tickets at 4/- each ? ..
5. If a bridge carrying a railway has 11 equal spans and is 143 yds. long, what is the length of each span ? .. ..
6. What is 12% of £50 ? .. ..
7. Change $\frac{1}{4}$ into a decimal and then write down $\frac{1}{40}$ as a decimal .. ..
8. How much money is $3\frac{1}{2}$ guineas and £$3\frac{1}{2}$? .. ..
9. In a test of 40 sums a boy had 80% correct. How many did he work correctly ? .. ..
10. Find the sum of 1·8 and ·18 .. ..

EXERCISE XXXIII.

PROPORTION : PARTS OF £1 : FRACTIONS.

Set I.

1. Write in figures : ninety thousand and ninety .. ..
2. How many $1\frac{1}{2}$d. cakes can you buy for $2/4\frac{1}{2}$? .. ..
3. If salmon is 2/8 a lb., how much an ounce is it ? .. ..
4. Add together $\frac{1}{6}$ and $\frac{1}{12}$ .. ..
5. What sum of money is $\frac{1}{120}$ part of £1 ? .. .. ..
6. How many numbers between 20 and 30 will divide exactly by 7 ? .. ..
7. If a family uses 1 stone of potatoes a week, how long will $1\frac{1}{2}$ cwts. last ? .. ..
8. How much is $\frac{4}{15}$ of £1 ? .. ..
9. If £10 is the total wage of 4 men, how many of them could be paid with £7 10s. ? .. ..
10. On a cricket bat marked 8/4 there is a discount of 10%. How much is it reduced in price ? .. .. ..

Set II.

1. Divide 30 into two parts, one of which is 6 more than the other .. ..
2. Take $\frac{3}{4}$ of a foot from 2 ft. .. ..
3. If $1/4 = \frac{1}{15}$ of £1, how much is $\frac{7}{15}$ of £1 ? .. .. ..
4. If a man takes 5 days to dig a garden, how much has he done at the end of the third day ? .. .. ..
5. If 100 oranges cost 6/-, what should be paid for 75 ? ..
6. What sum of money is $\frac{15}{16}$ of £1 ? .. ..
7. A door is $6\frac{1}{2}$ ft. high and 4 ft. wide. What is its area ? .. ..
8. What is the cost of 239 papers at 1d. each ? .. ..
9. Find the cost of 48 eggs at $1\frac{3}{4}$d. each .. .. ..
10. $3{\cdot}5 \times 6$ .. ..

EXERCISE XXXIV.

FRACTIONS : PERCENTAGES.

Set I.

1. $3\frac{1}{2} + 5\frac{3}{4}$ . . . . . .
2. How much is $\frac{1}{9}$ of 3/9 ? . . . . . .
3. What vulgar fraction = ·05 ? . . . . . .
4. What is 30% of £1 ? . . . . . .
5. If $\frac{1}{6}$ of a dozen flash-lamp bulbs cost 7d. how much would a dozen cost ? . . . . . .
6. When $7\frac{1}{2}$% of a sum of money is 6/-, what is 5% of the same sum ? . . . . . .
7. Simplify : $\frac{£4\ 10s.}{£9}$ . . . . . .
8. ·1 × ·2 . . . . . .
9. What is the cost of 240 toys at $1\frac{1}{4}$d. each ? . . . .
10. What fraction is 2s. of 2/6 ? . . . . . .

Set II.

1. Divide 2/6 into two parts, making one 4d. more than the other . . . . . .
2. If $1\frac{1}{4}$ lbs. of cheese cost 1/3, how much a lb. is it ? . .
3. If $\frac{1}{2}$ a number is 33, what is $\frac{1}{3}$ of the same number ? . .
4. What vulgar fraction = ·625 ? . . . . . .
5. If a gallon of oil costs 4/-, what is the price of 3 quarts ? . .
6. What must be done to ·25 shilling to make it 2·5 shillings ? . . . . . .
7. If 25% discount is allowed on a Jack plane marked 10/-, how much is paid for it ? . . . . . .
8. What is the cost of 6 screw-drivers at 1/4 each ? . . . .
9. What is left when ·35 is taken from 1 ? . . . . . .
10. If $3\frac{1}{4}$ cwts. came instead of 3 cwts., how many lbs. too much were received ? . . . . . .

EXERCISE XXXV.

FACTORS : H.C.F. : FRACTIONS.

Set I.

1. Give the prime factors of 56 . . . . . .
2. What is the largest factor of both 32 and 36 ? . . . .
3. How much is $\frac{2}{3}$ of 36 ? . . . . . .
4. Give the prime factors of 45 . . . . . .
5. $3 \cdot 3 \div \cdot 3$ . . . . . .
6. What is the cost of $3\frac{3}{4}$ lbs. of beef at 1/2 a lb. ? . . . .
7. A pork pie at 1/4 a lb. comes to 2/10. What was its weight ? . . . . . .
8. How much is $\frac{2}{3}$ of 2/- ? . . . . . .
9. What is the largest number that will divide into both 24 and 40 ? . . . . . .
10. Eight and 5 both divide into a certain number and one is left over in each case. What is the smallest number that will serve ? . . . . . .

Set II.

1. By what must you multiply 40 so that the answer is 20 ? . .
2. What fraction is 10/6 of £1 ? . . . . . .
3. How many bats at 4/6 each can you buy for £4 10s. ? . .
4. What is $\frac{1}{11}$ of $5\frac{1}{2}$ score ? . . . . . .
5. If $2\frac{1}{2}$ yds. cost 6/3, what will 10 yds. cost ? . . . .
6. What is the cost of 8 lbs. 8 ozs. of beef at 10d. a lb. ? . .
7. Take 4 ft. 7 ins. from 5 ft. 4 ins. . . . . .
8. Add 3 lbs. 6 ozs. to 15 lbs. 10 ozs. . . . . .
9. A staircase has 12 steps. How high will it be if each step is $6\frac{1}{2}$ ins. high ? . . . . . .
10. What length equals $\frac{2}{3}$ of 72 yards ? . . . . .

EXERCISE XXXVI.

A REVISION TEST.

Set I.

1. $7+8+32$ .. ..
2. $6+9-4+8$ .. ..
3. $16+17-12$ .. ..
4. Take 13 from 1000 .. ..
5. $1 \div 8$ .. ..
6. 13s. $6\frac{1}{2}$d. $\times 2$ .. ..
7. Divide 3 lbs. 4 ozs. into 4 equal parts .. .. ..
8. A girl is half as tall as her father. If his height is 5 ft. 10 ins., how tall is she ? .. ..
9. $6 \div \frac{1}{2}$ .. ..
10. $2\frac{3}{4}-1\frac{1}{2}$ .. ..

Set II.

1. $54-27$ .. ..
2. $62-49-13$ .. ..
3. Reduce £1 3s. 6d. to pence .. ..
4. What is the smallest number into which 3, 4, and 5 will each divide without a remainder ? .. .. ..
5. $\cdot 5+\cdot 65$ .. ..
6. How much is 300% of 100 ? .. ..
7. What number multiplied by itself makes 64 ? .. ..
8. Find the cost of 150 eggs at 5 for 6d. .. .. ..
9. How much is $\frac{1}{4}$ of £4 2s. 6d. ? .. ..
10. Reduce $\frac{48}{60}$ to its lowest terms .. ..

EXERCISE XXXVII.

MISCELLANEOUS.

Set I.

1. At 1d. a ft., what is the cost of 12 poles, each $13\frac{1}{2}$ ft. long ?
2. What is the total length of 4 planks, each 4 ft. 3 ins. long ?
3. How much is 100% of 1 ? .. ..
4. 85×200 .. ..
5. The surface of a rectangular stone is 1 ft. 3 ins. $\times$ 10 ins. What is the area of the surface ? .. .. ..
6. Find the cost of a cake, 4 lbs. 4 ozs., at 1/- per lb. ..
7. A man had $\frac{3}{4}$ cwt. of firewood. If he sold $\frac{1}{8}$ cwt. and then $\frac{1}{4}$ cwt., how much had he left ? .. ..
8. If 20 men can do a piece of work in 8 hours, how long ought 16 men to take over it ? .. ..
9. How much money is 3% of £150 ? .. ..
10. What is the cost of 3 yds. 1 ft. of oak at 2/6 a yard ? ..

Set II.

1. For every £ a man owes, he can only pay 5/-, so what will a man receive to whom he owes £13 ? .. .. ..
2. How much is $\frac{2}{3}$ of 16s. ? .. ..
3. Supply the missing figure in $\frac{2}{3} = \frac{x}{36}$ .. ..
4. How much change out of £4 after spending £3 5s. 6d. ? ..
5. 2 lbs. 4 ozs. of mushrooms at 1/6 a lb. .. .. ..
6. $2 \div \frac{1}{4}$ .. ..
7. A furnace burns 10 cwts. of coal a day. How long will 4 tons 10 cwts. last ? .. ..
8. $4 \times 4 \times 4$ .. ..
9. What is the H.C.F. of 60 and 72 ? .. ..
10. $\cdot 6 \times \cdot 7$ .. ..

EXERCISE XXXVIII.

PERCENTAGES: FRACTIONS: ALIQUOT PARTS OF £1.

Set I.

1. If bacon is 1/6 a lb., what would be charged for an odd 2 ozs. ? .. ..
2. Express $\frac{4}{5}$ as a decimal and a percentage .. .. ..
3. What fraction is $\frac{1}{4}$d. of £1 ? .. ..
4. How much is $\frac{1}{4}$ of 2/6 greater than $\frac{1}{4}$ of 2/- ? .. ..
5. 3 yds. 0 ft. 9 ins. $\div$ 9 .. ..
6. What weight is $\frac{3}{8}$ of 1 ton ? .. ..
7. Find 5% of 5/- .. ..
8. $\frac{£1}{x} = 10$d. What is x ? .. ..
9. Turn $\frac{4}{5}$ into a fraction which has 20 for its denominator ..
10. Write $\frac{7}{8}$ as a decimal and a percentage .. .. ..

Set II.

1. $16{\cdot}55 \times 10$ .. ..
2. $351{\cdot}4 \div 100$ .. ..
3. $5 \div \frac{1}{3}$ .. ..
4. What fraction of £1 is 3/9 ? .. ..
5. If $\frac{1}{3}$ of my money is 2/4, how much is $\frac{1}{2}$ of it ? .. ..
6. How much is $3\frac{1}{2}$% of £400 ? .. ..
7. In 5 weeks a man spent £2 10s. In how many weeks would he spend £1 10s. ? .. ..
8. When $\frac{1}{4} + \frac{1}{5}$ of a wall has been built, how much has been finished ? .. ..
9. A man buys $\frac{1}{2}$ ton of metal for 8/6, and sells it at 1/1 a cwt. How much does he gain ? .. ..
10. What is 1% of 200 ? .. ..

EXERCISE XXXIX.

SHOPPING EXERCISES.

Set I.

1. 40 lbs. of potatoes at 16 lbs. for 1/-
2. Two dozen eggs at 1¾d. each
3. 2¼ lbs. of ham at 2/8 a lb.
4. 3 dozen reels of cotton at 2 for 2½d.
5. ½ cwt. of corn at 7 lbs. for 6d.
6. 3 lbs. of apples at 4½d. a lb.
7. 10 lbs. of sugar at 3½d. a lb.
8. 2¼ lbs. of bacon at 1/2 a lb.
9. 18 lbs. of candles at 5/6 a dozen lbs.
10. 6 loaves at 3½d. each

Set II.

1. 2¼ lbs. of butter at 1/8 a lb.
2. 2 quarts of milk at 3½d. a pint
3. 30 eggs at 1/6 a dozen
4. 3 jars of honey at 11d. each
5. 1 lb. 2 ozs. of cheese at 1/8 a lb.
6. 1 pint of vinegar at 2/- a gallon
7. 2 dozen buns at 4 for 3½d.
8. 2 lbs. 8 ozs. of beef at 1/3 a lb.
9. ¼ lb. of tea at 2/6 a lb.
10. 8 tablets of soap at 4½d. each

EXERCISE XL.

REVISION.

Set I.

1. How many oranges at 4 for 3d. can be bought for 3/- ? . .
2. If 2 lbs. of chocolate cost 5/-, how much will 3 lbs. cost ?
3. What number multiplied by itself makes 400 ? . . . .
4. A boy spends $\frac{1}{2}$ of his money and then $\frac{1}{2}$ of what was left. Then he had 6d. left. How much had he at first ? . .
5. If street lamps on the same side of the road are 80 yards apart, how far is it from the 1st to the 5th ? . . . .
6. How much is 10% of 450 ? . . . . . .
7. One quarter of a number is 13. What is the number ? . .
8. Simplify : $9 \div \cdot 9$ . . . . . .
9. Take $35 + 27$ from $\cdot 90$ . . . . . .
10. Divide 1/- between two girls, giving one 3d. more than the other . . . . . .

Set II.

1. Add : 3×8 and 5×8 . . . . . .
2. $6 \times 7 \div 3$ . . . . . .
3. $\cdot 5 \times \cdot 3$ . . . . . .
4. $16 \times \frac{1}{2}$ . . . . . .
5. 4 dozen reels of cotton at 1/3$\frac{1}{2}$ a dozen . . . .
6. Reduce $\frac{30}{36}$ to lowest terms . . . . . .
7. How many $\frac{1}{2}$d. stamps can be bought for 6/- ? . . . .
8. $\frac{1}{4} \div \frac{1}{8}$ . . . . . .
9. How much is 40% of 50 ? . . . . . .
10. 40 pencils at 4 for 5d. . . . . .

EXERCISE XLI.

REVISION.

Set I.

1. $180 \div 12$ .. ..
2. $400 - 327$ .. ..
3. $2\frac{2}{3} \times 2$ .. ..
4. If I pay 2/6 each week in railway fares, how much would it amount to in a year (52 weeks) ? .. ..
5. A piece of foolscap paper is 13 ins. $\times$ 8 ins. What is its area ? .. ..
6. How many pence will there be in n shillings ? .. ..
7. What is the value of the 4 in 34,268 ? .. .. ..
8. Simplify : $5/- \div \frac{1}{2}$ .. ..
9. If 1 oz. costs $4\frac{1}{4}$d., what will 1 lb. cost ? .. .. ..
10. 100 flash-lamp bulbs at $2\frac{1}{2}$d. each .. ..

Set II.

1. If one fowl costs 3/6, what is the price of a score ? ..
2. 16 lbs. of mutton at 1/4 a lb... .. ..
3. A class has x girls in it. If 4 are absent, how many are present ? .. ..
4. Write 120 in Roman numerals .. ..
5. A boy has a fifteen-minutes walk to school. If he gets there at 8·50 a.m., when does he start ? .. .. ..
6. A table-cloth is 5 ft. 6 ins. by 4 ft. How far is it round the edges ? .. ..
7. How much is 7 half-crowns greater than 7 florins ? ..
8. $\frac{3}{4}$ lb. of cheese at 1/- a lb. .. ..
9. 1 lb. 12 ozs. of bacon at 1/4 a lb. .. ..
10. How much is $\frac{1}{3}$ of half a guinea ? .. ..

EXERCISE XLII.

REVISION.

Set I.

1. $16 + 26 - 27$ .. ..
2. $500 - 13$ .. ..
3. $1 \div 1$ .. ..
4. $10 - 6{\cdot}5$ .. ..
5. How many lbs. are there in $2\frac{1}{2}$ stones ? .. .. ..
6. How much is $\frac{1}{4}$ of 4 ? .. ..
7. $8 \div 5$. Give the answer in decimal form .. .. ..
8. If a lb. of wool costs 6/-, what would you pay for 4 ozs. ? ..
9. Bring 40 inches to yds., ft. and ins. .. .. ..
10. How much is 5% of 80 ? .. ..

Set II.

1. Reduce $\frac{9}{12}$ to its lowest terms .. ..
2. Find the cost of half a dozen gimlets at $7\frac{1}{2}$d. each ..
3. 25 bradawls at 3d. each .. ..
4. If £1 is divided equally among 3 boys and 3 girls, how much will each receive ? .. ..
5. If you cut off $5\frac{3}{4}$ inches from a stick which is $6\frac{1}{2}$ inches long, how much is left ? .. ..
6. From London to Penzance is 305 miles. How long would it take an express train running 60 m.p.h. to do the journey ? .. ..
7. Boxes at 3d. each amount to 2/9. How many were bought ? .. ..
8. A man has $\frac{1}{3}$ of £3, and puts half of it in the bank. How much has he left ? .. ..
9. Of what sum of money is 7/10 one quarter ? .. ..
10. A dress takes 1 dozen buttons at 6 for 1d. What would be the cost of the buttons on 8 dresses ? .. .. ..

EXERCISE XLIII.

REVISION.

Set I.

1. What must be added to $3\frac{1}{2}$, $2\frac{3}{4}$ and $\frac{1}{4}$ to make 10 ? ..
2. After spending $\frac{3}{4}$ of his money a man had 3/6 left. How much had he at first ? .. ..
3. What is the cost of 120 eggs at 1/4 a dozen ? .. ..
4. If 50 buns cost 4/-, what would 75 cost ? .. .. ..
5. $\frac{1}{4}$ lb. of coffee at 3/2 a lb. .. ..
6. $1\frac{1}{2}$ dozen electric switches at $8\frac{1}{2}$d. each .. .. ..
7. $\frac{3}{4}$ lb. of tea at 2/6 a lb. .. ..
8. $6\frac{1}{2}$ dozen daffodil bulbs at 9d. a dozen .. .. ..
9. How many lbs. of soap at $3\frac{1}{2}$d. a lb. can be bought for 2/11 ? .. ..
10. 3500 cubic feet of gas at 4/2 for 1000 cubic feet .. ..

Set II.

1. 41 units of electricity at 5d. a unit .. ..
2. If 1/3 in the £ is allowed as discount, what would this amount to on a bill of £17 ? .. ..
3. Dividend amounts to 8/4. How much has been spent if the dividend is 4d. in the £ ? .. ..
4. 10% discount is taken off a clock marked £5 10s. How much was the discount ? .. ..
5. 3/- in the £ discount is allowed. What % is that ? ..
6. If $\frac{1}{2}$d. a week is charged as interest on the loan of 1/-, how much is this for a year ? .. ..
7. 13 gallons of petrol at 1/6 a gallon .. ..
8. 13 ozs. of China tea at 2/8 a lb. .. ..
9. $1\frac{1}{2}$ lbs. of steak at 1/6 a lb. .. ..
10. 7 pints of milk at 7d. a quart .. ..

EXERCISE XLIV.

REVISION.

Set I.

1. What is the total of half a sovereign, half a crown, and a florin ? .. ..
2. 120 lbs. of apples at 5d. a lb. .. ..
3. What fraction of one cwt. is 16 lbs. ? .. .. ..
4. Express $\frac{5}{8}$ as a decimal .. ..
5. A man walks a mile in 8 mins. How far will he go in 20 mins. ? .. ..
6. A man bought 5/- worth of loaves at 4d. each. How much would they have cost him if each one had been 5d. ? ..
7. If you were 12 years old in 1935, in what year will you be 21 ? .. ..
8. How many half-crowns are there in £6 12s. 6d. ? .. ..
9. What is the cost of 40 lbs. of butter at 1/6 a lb. ? ..
10. How much money is $12\frac{1}{2}\%$ of £60 ? .. .. ..

Set II.

1. What is the cost of 7 lbs. of beef at 1/2 a lb. ? .. ..
2. How many $\frac{1}{4}$-lb. tins of cocoa can be filled from 16 lbs. ? ..
3. Take ·55 from 1 .. ..
4. If oil is 1/- a gallon, how much will 5 pints cost ? ..
5. What is $\frac{1}{2}$ of $\frac{1}{2}$? .. ..
6. 4 ozs. of wool at 6/- a lb. .. ..
7. Change 50 inches into yds., ft. and ins. .. .. ..
8. Write : fifty-two thousand and thirty-five .. .. ..
9. After paying for 4 articles at $1/1\frac{1}{2}$ each, how much change will there be out of 5/- ? .. ..
10. How much money is $\frac{2}{3}$ of a florin ? .. ..

EXERCISE XLV.

REVISION.

Set I.

1. Add together 6, 35, 19, 27 .. ..
2. Take $3\frac{1}{4}$ score from 90 .. ..
3. Take 20% off 12/6. What is the reduced price ? .. ..
4. 3 dozen eggs at 9 for 7d. .. ..
5. 18 books at $3\frac{1}{2}$d. each .. ..
6. 1 lb. 9 ozs. of beef at 1/4 a lb. .. ..
7. $4\frac{1}{2}$ yards of silk at 2/6 a yard .. ..
8. 24 reels of thread at $3\frac{1}{2}$d. a reel .. ..
9. $3\frac{1}{2}$ yards of ribbon at $8\frac{1}{2}$d. a yard .. ..
10. 3 pairs of stockings at 1/11 a pair .. ..

Set II.

1. 2 pairs of gloves at 2/$11\frac{1}{2}$ a pair .. ..
2. 5 rolls of wall-paper at 2/3 a roll .. ..
3. 12 lbs. of sugar at 2 lbs. for $5\frac{1}{2}$d. .. ..
4. $\frac{1}{4}$ lb. of tea at 2/2 a lb. .. ..
5. 32 feet of wood at $1\frac{1}{2}$d. a foot .. ..
6. A piece of plywood is 6 ft. by 4 ft. 6 ins. What is the area of one face of it ? .. ..
7. A square piece of glass is 49 sq. ins. in area. How far is it round the edges ? .. ..
8. 6 cwts. of coal at 30/- per ton .. ..
9. 3 planks, each 8 ft. long, at 2d. a foot .. .. ..
10. 5 pints of oil at 1/4 a gallon .. ..

EXERCISE XLVI.

REVISION.

Set I.

1. Add together the odd numbers between 20 and 30 . .
2. Take ·725 from 2 . . . . . .
3. Divide £3 by $\frac{1}{4}$ . . . . . .
4. Add $\frac{1}{4}$ and $\frac{1}{6}$ . . . . . .
5. $8\frac{1}{2}$ hours' work at 1/6 an hour . . . . . .
6. What fraction is 14/- of £2 ? . . . . . .
7. What is $\frac{1}{3}$ of $\frac{3}{8}$? . . . . . .
8. What vulgar fraction equals ·05 ? . . . . . .
9. Reduce 265 shillings to £ s. d. . . . . .
10. Take 2/3 from 14/1 . . . . . .

Set II.

1. How many hats at 3/4 each can be bought for £6 6s. 8d. ?
2. How many 2d. stamps for 5/10 ? . . . . . .
3. Divide 356 by 100 . . . . . .
4. From 1.50 p.m. to 2.30 p.m. How many minutes ? . .
5. At 15/- per horse-power, what tax is paid on a 10 horse-power car ? . . . . . .
6. What is 20% of 530 ? . . . . . .
7. How much would 240 oranges cost at $1\frac{1}{2}$d. each ? . .
8. 50% of 1 . . . . . .
9. 200% of $1\frac{1}{2}$ . . . . . .
10. 2 lbs. 7 ozs. at 2/8 a lb. . . . . .