

ARITHMETIC

1964

200 Marks. One hour and a half for this paper.
Candidates should answer *all* the questions.

SECTION A — 100 marks

- (a) Express £1 15s. 3d. as a decimal of £5.
(b) Divide the difference between $9\frac{3}{7}$ and $7\frac{3}{5}$ by their sum.
2. What is $7\frac{1}{2}\%$ of the cost of $5\frac{5}{8}$ cwts. at 4s. 6d. per pound?
3. If a metre is taken to be 39.37011 inches, find, correct to the nearest inch, the difference between 5 miles and 8 kilometres.
4. How many lengths of 7.35 centimetres each can be cut from a bar of metal 2.23 metres long? What will be the length of the remaining piece?

SECTION B — 100 marks

5. A merchant sold a certain kind of tea at 7s. 6d. per pound, and made a profit of 20% on it. When the cost of that tea was reduced by 5d. per pound, he bought another box of it, and reduced the selling price by 5d. per pound. What percentage profit did he make on the box?
6. The number of spectators at a football match was 15,702. Some were admitted free. The others paid 2s. each at the gate; and 1,630 of these paid an additional 2s. 6d. each to go on the stand. The total receipts were £1,768 3s. How many were admitted without payment?

7. In a field of $2\frac{1}{2}$ acres a farmer sowed seed at the rate of 45 pounds per acre. He mixed three kinds of seed in the ratio 11 : 8 : 6, and they cost 2s., 2s. 9d., and 3s. 3d. per lb. respectively. Find the total cost of the seed.

8. A man gets a loan of £2,250 from the bank at simple interest when the rate of interest charged for such loans is $5\frac{1}{2}\%$ per annum. After three months the rate is raised to $5\frac{3}{4}\%$, and four months later to 6% , and it continues at that rate to the end of a year from the day he obtained the loan. How much interest will he have to pay at the end of the year?