

County Council of Durham.

EDUCATION COMMITTEE.

ADMISSION OF PUPILS TO GRAMMAR SCHOOLS, 1946.

QUALIFYING EXAMINATION.

ARITHMETIC (TOTAL MARKS 100).

TUESDAY, 26TH FEBRUARY, 1946. 9-30 a.m. to 10.15 a.m.

Write your EXAMINATION NUMBER (not your name) and the name of your school at the top right hand corner of every sheet of paper used.

You may attempt all the seven questions, and answer them in any order.

Place the number of the question in the margin and leave a space after each answer.

No scrap paper may be used. To obtain full marks you must show all your working on your answer paper.

1. Take from ten thousand the sum of the following :—
Six hundred and six, forty-eight, one thousand and one, seven hundred and ninety-three, sixteen. (14 marks).
2. A showman counts his Saturday night takings and finds he has 487 pennies, 209 sixpences, 76 shillings, 144 two-shilling pieces and 75 half-crowns. What is the total amount taken ? (14 marks).
3. A man travels by bus from his home to town 46 weeks each year, 6 days each week. The cost of a weekly (*i.e.* twelve journey) ticket is 4s. 6d. If the return fare is 1s. 1d., how much does he save in a year through buying the twelve-journey tickets ? (14 marks).
4. A train started at 10.15 a.m. and completed its journey in $4\frac{1}{2}$ hours. It stopped at 15 stations. At 5 of these each stop was for 2 minutes and at 10 stations, 3 minutes. If the journey could have been completed at the same speed but without stops, at what time would the train have reached its destination ? (14 marks).
5. For the 19 school days in January the quantity of milk delivered to a school was 247 gallons in half-pint and one-third pint bottles. The number of half-pint bottles delivered daily was 176. The remainder was in one-third pint bottles. How many of the latter were delivered each day ? (14 marks).
6. A shopkeeper received 5,632 points for sweets. $\frac{3}{4}$ of these were for the purchase of boiled sweets and toffees. The rest were for buying boxes of chocolate which required 8 points each box. What was the value of all the chocolate sold at 1s. 6d. per box ? (14 marks).
7. The four sides of a rectangular sheet of paper together measure 41 inches. A line is drawn 1 inch from the edge of one of the longer sides to leave a margin. If the length of the longer side is $12\frac{1}{2}$ inches, find the area of the sheet of paper, excluding the margin. (16 marks).