County Council of Durham

EDUCATION DEPARTMENT

ADMISSION OF PUPILS TO GRAMMAR SCHOOLS, 1963

ARITHMETIC (Total Marks 100)

TUESDAY, 5TH FEBRUARY, 1963, 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 SIX 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. (a) Find the total of the following numbers :—
   67, 9, 321 and 5637. (4 marks)

   (b) What is one sixth of the sum of three hundred and six and two hundred and seventy six ? (4 marks)

   (c) From the sum of £2 3s. 9d. and £3 7s. 8d. take £1 13s. 8d. (4 marks)

   (d) Divide 3 yds. 1 ft. by 5 and give the answer in inches (4 marks)

   (e) Add 5 pints to one third of $4\frac{1}{2}$ gallons. (4 marks)

2. (a) A length of string is cut into 8 equal pieces each of 1 ft. 8 ins. If it had been cut into 5 equal pieces how long would each piece have been ? (5 marks)

   (b) I bought a book and received 16s. 3d. change from a £1 note. If I had bought three of these books instead of one how much change would I have received ? (5 marks)

   (c) A boy drinks 1 pint of milk every day. How much did he drink last year ? Give the answer in gallons, quarts and pints. (5 marks)

   (d) A boys weighs 8 st. 12 lbs. His father weighs half as much again. What do they weigh together ? (5 marks)

   (e) A girl was born on the 1st September, 1951. What is her age in years and months on 1st June, 1962 ? (5 marks)

3. An advertising firm sends out 3500 circulars by post. Each circular is sent in an unsealed envelope which needs a $2\frac{1}{2}$d. stamp. If the circulars cost 3s. a hundred and the envelopes 10d. for a packet of 50, what is the total cost of sending the circulars ? (10 marks)

4. At 9.15 a.m. a goods train passes through a station at 24 miles an hour. At 10.15 a.m. a passenger train passes through the station in the same direction and overtakes the goods train at 11 a.m. What is the speed of the passenger train ? (15 marks)

5. A shopkeeper buys $3\frac{1}{2}$ tons of sugar at £55 10s. a ton. He sells 8 cwts. of the sugar at £3 3s. 6d. a cwt. The remainder is put into 1 lb. packets which he sells at 10d. a lb. What profit does he make if the packets cost him £2 10s. ? (15 marks)

6. A factory makes cardboard boxes without lids. Each box measures 3 feet long, 2 feet wide and 1 foot 6 inches high. Find the cost of $\frac{1}{2}$ gross of boxes if cardboard costs 1s. 4d. a square yard. (15 marks)