County Council of Durham.

EDUCATION DEPARTMENT.

ADMISSION OF PUPILS TO GRAMMAR SCHOOLS, 1958.

ARITHMETIC (Total Marks 100).

TUESDAY, 4TH FEBRUARY, 1958, 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 sum of the following numbers :—
9, 36, 477, 8361. (5 marks)

   (b) Multiply 729 by 8. (5 marks)

   (c) Divide eight thousand and sixty one by seven (5 marks)

   (d) Add the following :—£1 12s. 6d., 13s. 8d., £10 9s. 11d. (5 marks)

   (e) From 3 yards take away $7\frac{3}{4}$ inches. (5 marks)

2. (a) What will be the total cost of the postage stamps required for 27 letters at 3d. each and 16 postcards at $2\frac{1}{2}$d. each ? (5 marks)

   (b) Multiply £70 2s. $6\frac{1}{2}$d. by 38. (5 marks)

   (c) How many children can be served with $\frac{1}{3}$ pint of milk each from 6 gallons 1 quart ? (5 marks)

   (d) A boy walks 4 miles in an hour. How many yards will he have walked at this rate in 9 minutes ? (5 marks)

   (e) I think of a number divide it by 5, multiply the answer by 9, add 7, and get 52. What is the number ? (5 marks)

3. A train left Liverpool at 9.28 a.m. and arrived in Newcastle at 1.53 p.m. How long did the journey take?

Another train from Liverpool arrived in Newcastle at 3.17 p.m. and had taken $\frac{3}{4}$ hour longer than the first train. At what time did this train leave Liverpool? (10 marks)

4. Eggs are bought at 18 for 4 shillings and sold at $3\frac{1}{2}$d. each. How many eggs must be sold to make a profit of £1? (10 marks)

5. The field in which a school stands is rectangular in shape and is three times as long as it is broad. The distance round the field is $\frac{1}{2}$ mile. What are the length and breadth of the field?

Of the whole area, $\frac{1}{6}$ is covered by buildings, $\frac{1}{4}$ is tar-paved for playground and $\frac{1}{12}$ used for flower beds.

What would the cost of turfing the remainder be at 2d. per square foot? (15 marks)

6. Jack and Tom together weighed 10st. 3lb. 7oz.
Tom and Bill together weighed 10st. 12lb. 9oz.
Jack and Bill together weighed 11st. 12lb.
What were the separate weights of Jack, Tom and Bill? (15 marks)