County Council of Durham

EDUCATION DEPARTMENT.

ADMISSION OF PUPILS TO GRAMMAR SCHOOLS, 1957.

ARITHMETIC (Total Marks 100).

Tuesday, 5th February, 1957, 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)   Give the total of the following numbers :—
6, 47, 578, 9283.   (5 marks)

    (b)   Divide 1557 by 9.   (5 marks)

    (c)   Take twenty eight pounds eleven shillings and five pence from seventy three pounds six shillings and two pence.   (5 marks)

    (d)   Multiply 4 gallons 3 quarts 1 pint by 6.   (5 marks)

    (e)   There are 178 steps to climb a cliff.   Each step is 7 inches high.   How high is the cliff in yards, feet, and inches?   (5 marks)

2.   (a)   £12 1s. 6d. has to be divided equally between 23 boys.   How much will each receive?   (5 marks)

    (b)   Find the cost of 240 articles at 2/9½d. each.   (5 marks)

    (c)   From the following fractions select the largest and the smallest and then find the difference between these two, giving your answer as a decimal.
·3, $\frac{3}{5}$, $\frac{3}{4}$, ·5.   (5 marks)

    (d)   If $\frac{4}{5}$ of my savings amount to £19 17s. 8d. how much have I saved altogether?   (5 marks)

    (e)   A book contains 116 leaves.   Each page measures 6 inches by 9 inches.   How many square feet of paper does the book contain?   (5 marks)

3. Rewrite on your paper the following questions and fill
   in the correct missing figures :—

	Addition	Subtraction	Division.

Addition	Subtraction	Division.
357	Stones lbs. ozs.	Yds. ft. ins.
193	27 3 7	7)99 2 x
72x	x x x	
xx2	─────────	x x 9
───────	17 7 15	───────
1737	─────────	

(5 marks)   (5 marks)   (5 marks)

4. Two cyclists set off from the same place and follow the
   same route.   The first cyclist is slower than the second.
   The first leaves the starting point at 10.30 a.m. and
   travels at 18 miles an hour.   The second leaves the
   starting point 1 hour 10 minutes later and catches up
   with the first after travelling 3 hours.   What is the rate
   of travel of the second cyclist in miles per hour ?   (10 marks)

5. On a journey of 441 miles a car used 12 gallons 1 quart of
   petrol.   Calculate the average distance travelled on 1
   gallon of petrol.

   What distance in miles and furlongs could be covered
   on 3 gallons 3 pints of petrol ?   (10 marks)

6. A rectangular lawn is 24 yards long and 18 yards wide.
   From the middle of the lawn a square flower bed is cut
   occupying exactly one third of the total area of the
   lawn.

   Find (1) the length of each side of the square bed
   (2) the cost of edging the whole of the flower bed with
   edging pieces each 1 foot 6 inches long and costing
   5/9d. a dozen.   (15 marks)