

County Council of Durham

EDUCATION DEPARTMENT

ADMISSION OF PUPILS TO GRAMMAR SCHOOLS, 1954.

ARITHMETIC (Total Marks 100)

TUESDAY, 9th FEBRUARY, 1954, 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) Add the following numbers together :—
39, 258, 6742, 5. (5 marks)
- (b) Take seven thousand nine hundred and forty-eight from nine thousand eight hundred and sixty-three. (5 marks)
- (c) Find the cost of 7 articles at 3/9d. each. (5 marks)
- (d) $885 \div 6$ (5 marks)
- (e) Find the sum of $\frac{3}{8}$, $\frac{1}{4}$ and $\frac{1}{2}$ (5 marks)
2. (a) If 3 toys cost 5/- what would 8 toys cost? (5 marks)
- (b) If a train runs 12 miles in 10 minutes, in how many seconds will it run a mile? (5 marks)
- (c) Ten posts each 4 feet apart are fixed in a row. How many yards is it from the first post to the last? (5 marks)
- (d) Express the following as fractions of a pound, each fraction to be in its simplest form :—
4 ounces, 2 ounces, 9 ounces, 12 ounces, and 1 ounce. (5 marks)
- (e) Jack is twice as old as Bob who is three times as old as Bill. Bill is twin to Mary who is three years old. How old is Jack? (5 marks)

3. A man starts work at 8.15 a.m. and finishes at 5.30 p.m. except on Saturdays when he finishes at 12 noon. He stops for lunch daily from 12 noon to 1 p.m. and does not work on Sundays. What are his weekly earnings if he is paid at the rate of $3/6d.$ per working hour? (10 marks)

4. Rewrite the whole of this bill putting in all the missing figures :—

		s. d.
? lbs. of flour at $4\frac{1}{2}d.$ per lb.	1	$1\frac{1}{2}$
$1\frac{1}{4}$ lbs. of sugar at ? per lb.	10
$\frac{3}{4}$ lb. of tea at 5/- per lb.	? ?
7 ozs. of sultanas at $1/4d.$ per lb.	?
Total-	? ?

(10 marks)

5. A milkman has 55 customers each of whom buys 1 gal. 3 qts. of milk per week. Other customers buy a total of 75 gals. 1 qt. between them each week. In addition he supplies a school with 900 one-third pint bottles of milk weekly.

- (a) What are his total sales of milk for the week in gallons and quarts?
 (b) What are his weekly takings if the milk is sold at $7d.$ per pint?

(15 marks)

6. A rectangular plot of land is 78 feet long and 57 feet wide. Two small plots each 6 yards square within the large plot are used for growing roses and the remainder of the plot is lawn. Each rose plot is completely surrounded by lawn.

- (a) How many yards of wire are required to stretch twice around the outer edges of the big plot?
 (b) What is the area of the lawn in square yards?
 (c) Find the total cost of laying edging tiles around the large plot and each of the smaller plots at $7d.$ per foot length.

(15 marks)