

County Council of Durham

EDUCATION COMMITTEE.

ADMISSION OF PUPILS TO GRAMMAR SCHOOLS, 1952.

ARITHMETIC (Total Marks 100).

TUESDAY, 19TH FEBRUARY, 1952, 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. (a) Find the sum of the following numbers :—
3007, 568, 36, 489 (5 marks)
- (b) Multiply 876 by 7 (5 marks)
- (c) How many $\frac{1}{2}$ cwt. bags can be filled from $3\frac{1}{2}$ tons? (5 marks)
- (d) What fraction of a cake is left after $\frac{1}{2} + \frac{1}{3}$ has been eaten? (5 marks)
- (e) How many pieces of ribbon each $2\frac{1}{2}$ inches long can be cut from a 3'6" length and how much is left over? (5 marks)
2. Find the difference between one thousand pence and one thousand pounds and divide the answer by 8. (10 marks)
3. If an aeroplane travels 420 miles in an hour, how many yards will it travel in one second at this rate? (10 marks)

4. After working part of each day at a certain piece of work, a workman's time sheet shows the following:—

	<i>Mon.</i>	<i>Tues.</i>	<i>Wed.</i>	<i>Thurs.</i>	<i>Fri.</i>
	a.m.	p.m.	a.m.	a.m.	a.m.
Commenced work at	8.15	2.30	9.15	8.45	2.15
	p.m.	p.m.	p.m.	p.m.	p.m.
Ceased work at	12.30	5.15	12.30	12.30	4.30

- (a) Find the total time worked on this job.
- (b) How much did he earn on the job at 3s. 6d. an hour? (10 marks)
5. A collection consisted of silver coins only. One-half of the coins were sixpences, one-quarter were shillings, one-sixth were florins, and the rest consisted of 50 half-crowns.
How many coins were received altogether and what was the total amount of the collection? (15 marks)
6. A milkman has 200 customers. Sixty of these take a quart of milk each, fifty take a pint and-a-half each, and the rest one pint each per day.
- (a) How much milk (in gallons, quarts and pints) does he sell in a day?
- (b) If he starts out with 40 gallons how many half-pints has he left? (15 marks)
7. A grass football field is 120 yards long and 80 yards wide. All round the pitch there is an ash path 10 yards wide. Calculate the total cost of laying the ash at one shilling per square yard, and of re-turfing half the field at 2s. 6d. per square yard. (15 marks)