

# County Council of Durham

## EDUCATION DEPARTMENT

ADMISSION OF PUPILS TO GRAMMAR SCHOOLS, 1961

### ARITHMETIC (Total Marks 100)

TUESDAY, 7TH FEBRUARY, 1961, 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 :—  
7608, 37, 9, 456. (4 marks)
- (b) Divide the difference between 8410 and 247 by 9. (4 marks)
- (c) From the sum of £8 14s. 9d. and £5 9s. 8d. take £11 13s. 7d. (4 marks)
- (d) Divide 7 stones 9 lbs. 8 ozs. by 4. (4 marks)
- (e) Add the following :—2 yds. 1 ft. 8 ins., 5 yds. 4 ins., and 3 yds. 2 ft. 2 ins. (4 marks)
2. (a) How far will a car travel in 22 minutes if its speed is 30 miles per hour? (5 marks)
- (b) If 20 articles cost £1 15s. 0d., what is the cost of 3 articles? (5 marks)
- (c) Find the value of  $3\frac{2}{3} - 2\frac{3}{4} + 1\frac{5}{6}$ . (5 marks)
- (d) In the afternoon a school starts at 1.30 p.m. and closes at 3.50 p.m. If 130 minutes are spent on lessons, what is the length of playtime? (5 marks)
- (e) A milkman delivers milk daily to 33 houses. Twenty houses each receive  $1\frac{1}{2}$  pints per day and the remainder each receive 2 pints per day. How many gallons are delivered in one week? (5 marks)

3. A lorry weighs 2 tons 15 cwts. when empty. It is loaded with bags of potatoes each weighing 2 stones. How many bags of potatoes are on the lorry if the total weight of lorry and potatoes is 4 tons 5 cwts. ? (10 marks)
4. A furniture salesman was paid £8 10s. 0d. a week plus 9d. for every £1 worth of furniture he sold. In one week he sold 17 chairs at £5 17s. 6d. each, 5 tables at £12 5s. 6d. each and 3 kitchen cabinets at £13 11s. 8d. each. What was his total wage for that week ? (15 marks)
5. A cyclist leaves home at 2.30 p.m. and cycles for  $\frac{3}{4}$  hr. at 16 miles per hour. He rests for 20 minutes and then continues his journey. He arrives at his destination at 4.15 p.m. and has then travelled a total distance of 20 miles. What is his speed for the second part of the journey ? (15 marks)
6. A rectangular lawn 5 yds. 1 ft. wide has an area of 80 square yards. A concrete path surrounds the lawn and is 1 ft. 6 ins. wide on the shorter sides and 2 ft. 6 ins. wide on the longer sides. Find the cost of laying the concrete path at 12s. 6d. per square yard. (15 marks)