

County Council of Durham.

EDUCATION DEPARTMENT

ADMISSION OF PUPILS TO GRAMMAR SCHOOLS, 1960

ARITHMETIC (Total Marks 100)

TUESDAY, 2ND FEBRUARY, 1960, 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 :—
5096, 19, 408, 7. (5 marks)
- (b) From 9004 take 4657 and divide the answer by 7. (5 marks)
- (c) Add 2 yards 1 foot 8 inches to 3 yards 2 feet 9 inches and subtract the total from 10 yards. (5 marks)
- (d) What is one-third of 10 gallons 1 pint ? (5 marks)
- (e) Multiply £3 13s. 7d. by 8. (5 marks)
2. (a) If £2 14s. 0d. is paid for 8 hours work what is paid for 5 hours work ? (5 marks)
- (b) Find the value of $2\frac{1}{4} + 1\frac{1}{3} - \frac{5}{8}$ (5 marks)
- (c) Find the sum of the following, giving the answer in £ s. d.
£1.75, £2.5, £0.6, £0.25 (5 marks)
- (d) A pile of coal weighs 8 tons 13 cwts. A load of 2 tons 8 cwts is added to the pile and the whole is put into sacks each containing 1 cwt. How many sacks will be filled from the pile ? (5 marks)
- (e) Find the cost of 243 articles at 1s. 2d. each. (5 marks)
3. 72 persons go on an outing. They travel in two motor coaches, the charge for hiring being £8 2s. 0d. per coach. Each person has lunch and two bottles of lemonade. If the cost of the lunch is 3s. 6d. per person and the lemonade costs 4s. 6d. per dozen bottles what is the cost of the outing to each person ? (10 marks)

4. A man walking steadily at 4 miles per hour passes a certain point at 9.25 a.m. At 10.19 a.m. a cyclist travelling in the same direction passes the same point. What is the speed of the cyclist if he overtakes the walker at 10.55 a.m. ? (10 marks)

5. (a) A rectangular room 15 feet long and 12 feet wide has a floor made of wood boards 9 inches wide. Find the cost of the floor if the boarding costs 1s. 3d. per yard.
(b) If another rectangular room has the same area as this room but is two feet narrower, what is its length? (15 marks)

6. A motorist finds that his car travels 30 miles per gallon with petrol costing 5s. per gallon and 25 miles per gallon with a cheaper petrol. The cost of travelling 540 miles using the dearer petrol is the same as for 500 miles using the cheaper brand. Find the cost per gallon of the cheaper petrol. (15 marks)