

County Council of Durham.

EDUCATION DEPARTMENT.

ADMISSION OF PUPILS TO GRAMMAR SCHOOLS, 1955.

ARITHMETIC (Total Marks 100).

TUESDAY, 8TH FEBRUARY, 1955, 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 together the following numbers :—
1768, 27, 9, 354. (5 marks)
- (b) Divide one hundred and eighty nine by seven. (5 marks)
- (c) Take £22 16s. 4d. from £39 4s. 6d. (5 marks)
- (d) Multiply 10 tons 6 cwts. by 8. (5 marks)
- (e) $\frac{3}{4} - \frac{2}{5} + \frac{1}{2}$ (5 marks)

2. (a) A boy's money box contains 5 half-crowns, 6 florins, 12 shillings, 9 sixpences, 47 pennies, and 23 half-pennies. How much money has he in the money box ? (5 marks)
- (b) A rod 7 feet long is cut into pieces each 11 inches long. How many pieces of the required length will be cut and what length will be left over ? (5 marks)
- (c) John weighs 6 stones 4 lb. ; Robert weighs 5 stones 11 lb. ; and William weighs 7 stones 3 lb. What is their total weight ? (5 marks)
- (d) A rectangular table top has one side 4 feet long and its area is 20 square feet. What is the distance round the table top ? (5 marks)
- (e) A man has £10. He buys 7 articles for 13s. 8d. each. How much money has he left ? (5 marks)

3. A cricket match lasted four days. Play began each day at 11.30 a.m. and finished at 6 p.m. The lunch interval each day was from 1.30 p.m. to 2.15 p.m. and the tea interval from 4.10 p.m. to 4.30 p.m. On one day play was held up for 40 minutes because of rain. What was the total time for actual play? (10 marks)

4. A barrel of apples was bought for a children's party. When all the children had been supplied 29 apples were left. If there had been 5 more apples left there would have been one-seventh of the number in the barrel when it was bought. How many apples did the barrel contain at first? (10 marks)

5. A shopkeeper has 50 gallons of lemonade. He puts half into gallon jars, one-fifth into quart bottles, and the remainder into pint bottles. He sells the gallon jars for 2s. 5d. each; the quart bottles for $7\frac{1}{2}$ d. each; and the pint bottles for 4d. each. How much money was received from the total sales? (15 marks)

6. (a) A bathroom is 12ft. 8in. long and 10ft. 8in. wide. It has a door 4 feet wide. The walls are to be tiled from the floor to a height of 3 feet with tiles which are 4 inches square. How many tiles would be required?

(b) The whole of the bathroom floor is to be covered with tiles 8 inches square. How many tiles of this size will be required for the floor? (15 marks)