

# AN ROINN OIDEACHAIS

(Department of Education)

INTERMEDIATE CERTIFICATE EXAMINATION, 1959.

ELEMENTARY MATHEMATICS (Arithmetic).

FOR GIRLS ONLY.

TUESDAY, 2nd JUNE.—MORNING, 10 TO 12.

All questions to be answered.

All questions carry equal marks.

1. Find the total cost of the following items :—

3 dozen apples at  $6\frac{1}{2}$ d. each,

30 clothes pegs at 2s. 2d. per dozen,

10 yards of cloth at 9s.  $11\frac{3}{4}$ d. per yard,

$\frac{1}{4}$  stone of sugar at  $7\frac{1}{2}$ d. per pound.

2. Simplify :

(a)  $1\frac{5}{8} - 2\frac{7}{12} + 3\frac{1}{4}$ ,

(b)  $1\frac{2}{3} \times 4\frac{5}{8} \div 1\frac{1}{5}$ .

3. Calculate, correct to the nearest penny, the simple interest on £230 4s. for 6 years at  $3\frac{3}{4}\%$  per annum.

4. A man bought 29 tons 13 cwt. of coal at £10 13s. per ton. If instead of buying that kind of coal he had bought the same quantity of another kind at £8 17s. 6d. per ton, how much money would he have saved ?

5. (a) Write £2·7375 in terms of pounds, shillings and pence.

(b) Find, in shillings, the value of 0·24 of £3 2s. 6d.

6. Milk is bought at 2s. 6d. per gallon and sold at  $5\frac{1}{2}$ d. per pint. Find the profit made on the sale of 40 gals. 3 qts. of milk. Find, also, the percentage profit.

7. A cylindrical tank of internal diameter 1 ft. 4 in. contains 40 gallons of water. Find, correct to the nearest tenth of an inch, the depth of the water.

(One cubic foot = 6·228 gallons.)

8. In a stairs there are 20 steps and each step is  $6\frac{1}{2}$  inches high and  $10\frac{1}{2}$  inches from front to back. Find the cost of a carpet for the stairs at £1 13s. per yard.  
If the stairs is 4 ft. wide and the carpet is 2 ft. 6 in. wide, find the cost of painting the portion of the stairs, not covered by the carpet, at 1s. 3d. per square foot.