

AN ROINN OIDEACHAIS

(Department of Education).

INTERMEDIATE CERTIFICATE EXAMINATION, 1956.

ELEMENTARY MATHEMATICS (Arithmetic).

FOR GIRLS ONLY.

TUESDAY, 5th JUNE.—MORNING, 10 TO 12.

All questions to be answered.

All questions carry equal marks.

1. Find the cost of 5 tons 12 cwt. 2 qrs. of coal at £8 16s. per ton.
2. Find the cost of
 - (a) $3\frac{1}{2}$ lbs. of sugar at 7d. per lb. ;
 - (b) 6 eggs at 5s. 9d. per dozen ;
 - (c) $1\frac{1}{2}$ doz. buttons at 16s. per gross ;
 - (d) 14 feet of ribbon at 1s. 9d. per yard ;
 - (e) 15 sq. yds. of linoleum at 10d. per sq. ft.

Find also the total cost of these items.

3. Find the simple interest on £160 for four years at $5\frac{1}{4}\%$ per annum. What sum of money invested at $5\frac{1}{4}\%$ per annum, simple interest, would amount to £968 in four years ?

4. (a) Simplify

$$\frac{2\frac{1}{2} + \frac{7}{10} - \frac{1}{5}}{3\frac{1}{4} - 1\frac{2}{3} - \frac{1}{12}}$$

- (b) Find the square root of 457.96.

5. (a) A scarf which cost 15 shillings was sold for £1 4s. Find the percentage profit.
(b) A pair of shoes, bought for £2 4s., was sold at a profit of $12\frac{1}{2}\%$. Find the selling price.
(c) When a furrier sold a fur coat for 286 guineas, he made a profit of 30%. How much did he pay for the coat ?

6. The internal dimensions of an open cylindrical tank are as follows :—diameter $2\frac{1}{2}$ feet, height $3\frac{1}{2}$ feet. If 1 cubic foot = $6\frac{1}{4}$ gallons, find the capacity of the tank in gallons, correct to the nearest gallon. Find also the internal surface area of the tank in square feet, correct to one decimal place.