

AN ROINN OIDEACHAIS

(Department of Education).

INTERMEDIATE CERTIFICATE EXAMINATION, 1952.

ELEMENTARY MATHEMATICS (Arithmetic).

FOR GIRLS ONLY.

TUESDAY, 10th JUNE.—MORNING, 10 TO 12.

Six questions may be answered.

All questions carry equal marks.

1. If 221 articles cost £736 13s. 4d., find the cost of 153 of them.
2. Find the total cost of the following items:
 - 3 dozen handkerchiefs at 1s. 10d. each,
 - 24 pairs of stockings at 9s. 11d. per pair,
 - 1 gross of pens at 2½d. each,
 - 4 gallons of milk at 5¾d. per pint,
 - 3 cwts. of coal at £9 5s. per ton.
3. Find the simple interest on £680 for 3 years at 4¼% per annum.
What sum of money would give the same simple interest for 3 years at 8½% per annum?
4. A grocer buys tea at £18 13s. 4d. per cwt. and sells it at 3s. 8d. per lb. What is his percentage profit?
At what price per lb. must he sell it so that his profit may be 20%?
5. (a) Express 13s. 6d. as a decimal of £1.
(b) Express 5 furs, 20 perches as a percentage of 1 mile.
(c) Simplify $\frac{2\frac{1}{3} + \frac{1}{2}\frac{4}{9}}{2\frac{1}{3} - 1\frac{2}{9}} \times \frac{7}{30}$.

[P.T.O.]

6. The floor of a room, 20 ft. long and 16 ft. wide, is carpeted so that a border, 2 ft. wide, is left uncovered all round the room. Find (a) the cost of the carpet at £2 12s. 6d. per square yard, (b) the cost of painting the border at 1s. per square foot.

Or,

6. A cylindrical tank of internal diameter 1 ft. 8 ins. is filled with water to a depth of 3 ft. Find (a) the weight of the water to the nearest pound, (b) the volume of the water to the nearest gallon.

[A cubic foot of water weighs $62\frac{1}{4}$ lbs. and a gallon of water weighs 10 lb.]