

AN ROINN OIDEACHAIS

(Department of Education).

INTERMEDIATE CERTIFICATE EXAMINATION, 1951.

ELEMENTARY MATHEMATICS (Arithmetic).

FOR GIRLS ONLY.

TUESDAY, 5th JUNE.—MORNING, 10 TO 12.

Six questions may be answered.

All questions carry equal marks.

1. Simplify :

$$\frac{2\frac{1}{7} \times \frac{3}{5} + \frac{1}{2}}{\frac{2}{3} - \frac{3}{8} \div 1\frac{1}{4}}$$

2. Find the total cost of the following items :

- 3 $\frac{1}{4}$ lb. of meat at 3s. 4d. per lb. ;
- 2 dozen oranges at 3 $\frac{1}{2}$ d. each ;
- 3 quarts of milk at 4 $\frac{1}{2}$ d. per pint ;
- 10 ounces of tea at 2s. 8d. per lb. ;
- 1 stone of potatoes at 14s. per cwt.

3. Find the square root of 201.05, correct to two places of decimals.

Or,

3. Find the simple interest on £320 for 2 years at 2 $\frac{1}{4}$ % per annum.
In how many years would £320 amount to £392 at simple interest at 2 $\frac{1}{4}$ % per annum ?

4. A sum of money is divided between four people A, B, C, D. Three of them A, B, C get $\frac{1}{3}$, $\frac{1}{4}$ and $\frac{1}{5}$ of the sum, respectively. The fourth person, D, gets £3 5s. Find the sum of money that is divided.

[P.T.O.]

5. A man buys an article for £17 10s. and sells it for £18 16s. 3d. Find his percentage profit.

At what price should he sell the article to make a profit of 15 per cent?

6. At 3d. per square foot it costs £7 5s. 3d. to paint the walls of a room, excluding doors, windows, etc. If the room is 16 feet 6 inches long, 11 feet 3 inches wide and 12 feet high, find how many square feet are occupied by doors, windows, etc.

Or,

6. The circumference of a cylinder is 11 inches and the cylinder is 9 inches high. Find the total surface area of the cylinder to the nearest square inch.

[Take $\pi = 3\frac{1}{7}$].