AN ROINN OIDEACHAIS

(Department of Education)

INTERMEDIATE CERTIFICATE EXAMINATION, 1960.

ELEMENTARY MATHEMATICS (Arithmetic). FOR GIRLS ONLY.

WEDNESDAY, 8th JUNE .- MORNING, 10 TO 12.

All questions to be answered.
All questions carry equal marks.

- 1. Find the cost of 3 tons 7½ cwts, of turf at £3 3s. Od. per ton.
- 2. Simplify:-
 - (a) $3\frac{7}{8} 5\frac{1}{2} + 4\frac{1}{4}$;
 - (b) $1\frac{2}{3} \times 3\frac{3}{5} \div 2\frac{1}{4}$;
 - (c) $\frac{2\frac{1}{4}-1\frac{7}{8}}{1\frac{1}{5}\times\frac{3}{4}}$
- 3. A certain householder's electricity bill was made up as follows:—

56 units at 1.5 pence per unit,

360 units at 1.2 pence per unit.

40 units at 0.9 pence per unit,

Rent of meter, 1s. 9d.,

A fixed charge of 15s. 0d.

How much was the bill?

4. Find the simple interest on £440 for three years at $5\frac{1}{2}\%$ per annum.

How much money gives the same simple interest after four years as £440 gives after three?

5. A man bought a house for £3,200 and sold it for £3,800. What percentage profit did he make?

He sold another house for £3,600 at a loss of 10%. What had he paid for it?

Find his overall percentage profit on these transactions.

6. Find the square root of 22,801.

Find, also, correct to two places of decimals, the square root of 35.

7. Find how much it would cost to carpet a room 19 ft. by 25 ft., if carpet costs £1 16s. 0d. per square yard.

Find how much money would have been saved if, instead of carpeting all the floor, a border 2 feet wide had been left uncarpeted all around the room and this border had been stained at a cost of $2\frac{1}{2}$ d. per square foot.

8. A circular pool has diameter of 30 ft. Find (i) its circumference in feet, correct to the nearest foot, (ii) the area of its surface, in square feet, correct to the nearest square foot.

Calculate the depth of the pool in inches, correct to the nearest inch, when it contains 5,000 gallons of water.

[One cubic foot of water=6.228 gallons.]