

**AN ROINN OIDEACHAIS**  
(Department of Education).

INTERMEDIATE CERTIFICATE EXAMINATION, 1944.

**ELEMENTARY MATHEMATICS (Arithmetic).**  
**FOR GIRLS ONLY.**

MONDAY, 19th JUNE.—MORNING, 10 TO 11.30.

*Six* questions may be answered.

All questions carry equal marks.

Mathematical Tables may be obtained from the Superintendent.

1. Evaluate  $(2.37 \times 29.64) \div 17.93$  to *one* place of decimals.
2. Find the cost of 29 tons 17 cwts. 2 qrs. at £4 12s. 8d. per ton.
3. Find to the nearest penny the Simple Interest on £360 from April 2, 1943, to January 10, 1944 at  $2\frac{1}{4}\%$  per annum.
4. A rectangular room is 24 feet long and 21 feet wide. A border 18 inches wide was left all round and the rest of the floor was covered with carpet 27 inches wide. Find
  - (i) how many yards of carpet were required ;
  - (ii) the cost of the carpet at 13s. 9d. per yard.
5. One inch = 2.54 centimetres. Find, correct to the nearest whole number,
  - (i) the number of metres in a mile ;
  - (ii) the number of square centimetres in a square foot.
 [Metre = 100 centimetres ; mile = 1,760 yards.]
6. The area of a square is equal to that of a rectangle 40 yards long and 30 yards wide. Find, correct to  $\frac{1}{100}$  yard, by how many yards the length of the diagonal of the rectangle exceeds that of the diagonal of the square.
7. The following Table gives the average ages of the pupils in three classes :

Class	I	II	III
Number of Pupils in the Class	32	30	26
Average age (in years)	13.4	14.8	15.7

What is the average age of all the pupils in those three classes ?  
Give result correct to *one* decimal place.

8. A ladder 30 feet long stands against a wall and the top of the ladder is 29 feet above the ground. How many feet is the foot of the ladder from the foot of the wall?

If the foot of the ladder were pulled two feet farther from the wall how many inches would its top slide down the wall?

9. A metal pipe is 6 feet long. Its external diameter is 5 inches and its internal diameter is 4.6 inches. A cubic inch of the metal weighs  $4\frac{1}{2}$  ounces. Find the weight of the pipe, correct to the nearest pound.