

AN ROINN OIDEACHAIS

(Department of Education.)

INTERMEDIATE CERTIFICATE EXAMINATION, 1947.

ELEMENTARY MATHEMATICS (Arithmetic). FOR GIRLS ONLY.

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

Six questions may be answered.

All questions carry equal marks.

1. Simplify : $\frac{2\frac{1}{4}-1\frac{1}{3}}{3\frac{1}{2}-2\frac{2}{3}} \times \frac{5+\frac{2}{3}}{6+\frac{3}{8}} + \frac{2 \times \frac{3}{4} \cdot 1\frac{2}{3}}{2\frac{1}{4} \cdot 2}$.
2. Find the square root of 133.08 correct to two decimal places.
3. Find the cost of 9 tons, 11 cwt., 3 qrs. at the rate of £15 6s. 8d. per ton.
4. Find the G.C.M. and the L.C.M. of 1480 and 3700.
5. Find the simple interest on £250 10s. for 6 years at $3\frac{3}{4}\%$.
6. The rent of a rectangular plot of ground, whose length is 110 feet and whose breadth is 27 feet, is £2 10s. How much is this per acre ?
[One acre=4840 sq. yards.]
7. The diameter of a circle is 3.64 inches.
Find the area of the circle in square inches, correct to the first place of decimals.
8. Apples were bought at the rate of 1s. 6d. per dozen. Half of them were sold at 2d. each, and one-third of them were sold at $1\frac{1}{2}$ d. each. At what price should each of the remaining apples be sold so as to give a profit of $33\frac{1}{3}\%$ on the whole transaction ?
9. The diameter of a solid metal cylinder is 2 inches and the cylinder is 8 feet in length.

If one cubic foot of the metal weighs 450 pounds, find the weight of the cylinder correct to the nearest pound.