AN ROINN OIDEACHAIS
(Department of Education).

BRAINSE AN MHEÁN-OIDEACHAIS
(Secondary Education Branch).

INTERMEDIATE CERTIFICATE EXAMINATION, 1933.

ELEMENTARY MATHEMATICS (Arithmetic).
FOR GIRLS ONLY.

MONDAY, 19*th JUNE.*—MORNING, 10 A.M TO 12 NOON.

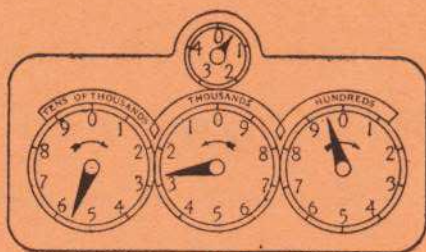*Six* questions may be answered.

All questions carry equal marks.

Mathematical Tables may be obtained from the Superintendent.

1. Find the total cost of the following items :—

   (i) $2\frac{1}{2}$ dozen grape fruit at $4\frac{1}{2}$d. each.

   (ii) 7 dozen eggs at 1s. 2d. per dozen.

   (iii) 5 tins peaches at $11\frac{1}{4}$d. per tin.

   (iv) $1\frac{1}{2}$ pints milk daily for the month of May at 6d. per quart.

2. Find the cost of $67\frac{1}{2}$ tons of coal at £1 18s. 6d. per ton. If 1s. in the £1 discount is allowed, what is the amount payable ?

3. What length of cretonne will be required for 13 pairs of window curtains each 8 feet 6 inches long, allowing 3 inches extra for each curtain for hemming ? What will the cretonne cost at 1s. 11d. per yard ?

4. In a town of 21,546 inhabitants, $\frac{5}{18}$ are men, $\frac{3}{7}$ women and $\frac{5}{14}$ boys. How many girls are there ?

5. Find to three decimal places the square root of 128·046.

6. In cooking a joint of beef 15 minutes is allowed for each lb. and 15 minutes over. Draw a graph to show the time required to cook joints weighing from one to 15 lbs. Read from your graph the time required for a joint of $8\frac{3}{4}$ lbs.
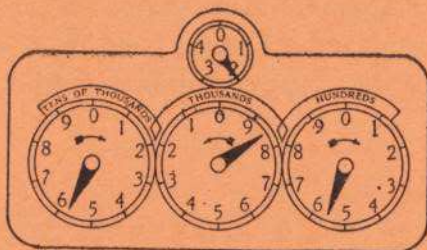
7. Find in sq. cms. to 2 decimal places the area of a circle of radius 9·45 cms.

Express the result also in sq. inches with corresponding accuracy.

8. The diagrams shown below indicate the readings in cubic feet of a gas-meter on 1st July and 30th September. If the price of gas is 1s. per therm, what is the gas bill for the quarter ?

1st July.

30th September.

(NOTE.—1,000 cubic feet is equivalent to $4\frac{3}{4}$ therms.)

9. Out of a sum of £10,000, the following amounts are paid :—

£	s.	d.
568	17	6
89	13	4
632	6	9
217	8	10
446	19	2
94	15	6
180	4	6
986	6	2
733	8	3

Find what percentage of the sum is left.