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(Department of Education).

INTERMEDIATE CERTIFICATE EXAMINATION, 1943.

ELEMENTARY MATHEMATICS (Arithmetic).
FOR GIRLS ONLY.

TUESDAY, 15th 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. 37 tons of turf cost £118 8s. What would be the cost of 62 tons ?

2. Evaluate 0.46 of £2 10s. + 2.125 of £4 8s. - 4.32 of £1 16s. 8d.

3. Express in simplest form :

(i) $\left(\frac{5}{6} - \frac{3}{4} + \frac{2}{3}\right) \div \left(\frac{5}{6} + \frac{3}{4} - \frac{2}{3}\right)$;

(ii) $(3.67)^2 - (1.33)^2$.

4. Find the Simple Interest on £638 15s. from March 10th to May 29th at $1\frac{1}{2}\%$ per annum.

5. A rectangular grass plot measures 80 yards by 60 yards. All round the plot on the outside there is a path $2\frac{1}{2}$ feet wide. Find, correct to the nearest square yard, what is the area of the path.

6. Find the diameter of a circle whose area is one acre. Give the result correct to $\frac{1}{10}$ yard.

$$\left[\pi = \frac{22}{7}\right].$$

7. A sum of £6 2s. 6d. was divided between three girls, A, B, C, in proportion to their ages. A was 14, B was 12 and C was 9 years old. Find the amount that each girl received.

8. Three horses, A, B, C, were bought for £55, £70, £92, respectively, and sold at a profit of 10% of the amount paid for all three. A was sold at a loss of 15% and B at a profit of $12\frac{1}{2}\%$. For what amount was C sold ?

9. A metal cylinder is 6 ins. high and $2\frac{1}{2}$ ins. in diameter. Find the volume of the cylinder in cubic inches, correct to one place of decimals.

If one cubic inch of the metal weighs 4.3 ounces, what is the weight of the cylinder ? Give the result correct to the nearest ounce.