INTERMEDIATE CERTIFICATE EXAMINATION, 1954.

ELEMENTARY MATHEMATICS (Arithmetic).

FOR GIRLS ONLY.

WEDNESDAY, 9th JUNE.—MORNING, 10 TO 12.

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

1. Find the cost of 13 tons 12 cwts. at £7 12s. 6d. per ton.

2. (*a*) Find the cube of 3·08 correct to two places of decimals.

   (*b*) Simplify :— $\dfrac{2\frac{2}{3}\times 4\frac{4}{5}}{1\frac{3}{5}\div 1\frac{5}{16}}$.

3. Find the simple interest (*a*) on £100 and (*b*) on £275, for 5 years at $3\frac{3}{4}\%$ per annum.

4. (*a*) £311 17s. 0d. was divided between two girls in the ratio of 5 to 6. How much did each receive ?

   (*b*) Find $13\frac{1}{2}\%$ of £290.

   (*c*) Express 15s. $4\frac{1}{2}$d. as a decimal of £1, correct to three decimal places.

5. A and B are circles. A has a radius of 9 inches ; B has a radius of 5 inches. Find (*a*) the difference in length between the circumference of A and that of B, in inches, correct to the nearest inch, (*b*) the difference between the areas of A and B, in square inches, correct to the nearest square inch, (*c*) the radius of a circle, correct to the nearest tenth of an inch, the area of which is equal to the difference between the areas of A and B.

6. A man bought a house for £2,500 and sold it at a profit of 8% : find the selling price.
   He made a profit of 10% by selling another house for £2,310 ; find how much he paid for this house.
   What was his over-all percentage profit on the sale of the two houses ?