INTERMEDIATE CERTIFICATE EXAMINATION, 1964.

ELEMENTARY MATHEMATICS (Arithmetic).

FOR GIRLS ONLY.

WEDNESDAY, 3rd JUNE — Morning, 10 to 12.

All questions to be answered.

All questions carry equal marks.

1. Find the cost of 9 tons 17 cwts. 2 qrs. at £11 12s. 0d. per ton.

2. Simplify:—   (a) $\dfrac{1\frac{1}{4} \times 2\frac{3}{5}}{6\frac{1}{2}}$,   (b) $\dfrac{3\frac{1}{4} + 2\frac{7}{8}}{7}$.

3. Find the cost of

  (a) 7 lbs. of butter at 4s. 7d. per pound,
  (b) $2\frac{1}{2}$ doz. eggs at 5s. 6d. per dozen,
  (c) $1\frac{1}{4}$ lbs. of tea at 6s. per pound,
  (d) 56 lbs. of potatoes at 3s. per stone.

Find, also, the total cost of these items.

4. Express

  (a) £1 15s. 0d. as a decimal of £5,
  (b) $\frac{1}{2}$ pint as a decimal of one gallon,
  (c) 22 yards as a decimal of one mile.

5. Calculate the simple interest on £325 for six years at 5% per annum.

How much money, invested at 5% simple interest per annum, would amount to £1690 after six years ?

6. Find, correct to three significant figures, the square root of 1580.

What is the least whole number that must be added to 1580 to make a perfect square ?

7. (a) An article which cost £8 was sold at a profit of 15%.   Find its selling price.
  (b) A man bought an article for £9 9s. 0d. and sold it for £15 15s. 0d.   What percentage profit did he make ?
  (c) An article was sold at £3 3s. 0d. at a profit of 8%.   Find its cost price.

8. (a) Find the area of a circle the circumference of which is 132 feet.   (Take $\pi = 3\frac{1}{7}$).
  (b) Find the area of a right-angled triangle, the sides of which are in the ratio of 3 : 4 : 5 and their total length 132 feet.