AN ROINN OIDEACHAIS

M.44.

INTERMEDIATE CERTIFICATE EXAMINATION, 1962.

ELEMENTARY MATHEMATICS (Arithmetic).

FOR GIRLS ONLY.

WEDNESDAY, 6th JUNE.— Morning, 10 to 12.

All questions to be answered.

All questions carry equal marks.

1. Find the total cost of the following items:

   3 lb. of beef at 4s. 8d. per lb.,
   1 stone of sugar at 7½d. per lb.,
   1 gallon of milk at 6d. a pint,
   1 lb. 4 oz. of grapes at 2s. per lb.

2. Find the value of

   (i) $(5\frac{1}{4} - 2\frac{1}{3}) \div 1\frac{1}{6}$

   (ii) $4 \cdot 3 \times 0 \cdot 78 \div 1 \cdot 2$.

3. What would £1,000 amount to in 20 years at 6% per annum simple interest?
   What sum of money would amount to £5,500 in 20 years at 6% per annum simple interest?

4. A circular field has a diameter of 176 yards.
   Find
       (i) its perimeter (circumference), correct to the nearest yard, and
       (ii) its area, correct to the nearest acre.
           (1 acre = 4840 square yards.)

5. A car is travelling at 45 m.p.h. How many seconds will it take to travel 100 yards?
   How far would the car travel while a man cycling at 15 m.p.h. travelled 100 yards?

6. There are ten girls in a class. One of them is aged 16 years 3 months, and the average age of the other nine is 14 years 7 months. Find the average age of the ten girls.

7. A rectangular block is 2 inches in height and its base is square. If the block has a volume of 141 cubic inches, find the length of the side of its base in inches, correct to one place of decimals.

8. A cyclist leaves a town at 12 o'clock travelling at 15 m.p.h. When he has travelled 30 miles at that speed he rests for half an hour and then returns to the town travelling at 10 m.p.h. Draw a graph to represent his journey.