

AN ROINN OIDEACHAIS

(Department of Education).

INTERMEDIATE CERTIFICATE EXAMINATION, 1953.

ELEMENTARY MATHEMATICS (Arithmetic).

FOR GIRLS ONLY.

TUESDAY, 9th JUNE.—MORNING, 10 TO 12.

All questions to be answered.

All questions carry equal marks.

1. Simplify :—

(a) $7\frac{1}{2} - 12\frac{2}{3} + 8\frac{1}{7}$;

(b) $\frac{3\frac{1}{2} \times 1\frac{3}{4}}{1 + \frac{1}{7} \times \frac{1}{3}}$.

2. Find the cost of

(a) 5 pairs of stockings at 8s. 11d. per pair ;

(b) $3\frac{1}{2}$ dozen buttons at $2\frac{1}{2}$ d. each ;

(c) $2\frac{3}{4}$ yards of velvet at 12s. 6d. per yard ;

(d) $2\frac{1}{4}$ lb. of knitting wool at 1s. 8d. per ounce ;

(e) $1\frac{1}{4}$ gross of fasteners at 10d. per dozen.

Find also the total cost of the items.

3. Find the simple interest on £350 for three years at $2\frac{1}{2}\%$ per annum. In how many years would £350 amount to £402 10s. at $2\frac{1}{2}\%$ per annum simple interest ?

4. A man buys an article for £3 8s. and sells it for £4 5s. Find his percentage profit.

If he were to decrease the selling price by 5%, what would be his percentage profit ?

[P.T.O.]

5. Express (a) 17s. 1½d. as a decimal of £1 ;
 (b) 7 yd. 2 ft. 3 in. as a decimal of 10 yards ;
 (c) 2 tons 15 cwts. 3 qrs. as a decimal of 5 tons.

6. A solid cylinder is 6 inches high and 4 inches in diameter. Find (a) the total surface area of the cylinder in square inches, correct to the nearest square inch, (b) the volume of the cylinder in cubic inches, correct to the nearest cubic inch.