AN ROINN OIDEACHAIS
(Department of Education)

INTERMEDIATE CERTIFICATE EXAMINATION, 1961.

ELEMENTARY MATHEMATICS (Arithmetic)[1].
FOR GIRLS ONLY.

WEDNESDAY, 7ᵗʰ JUNE — Morning 10 to 12

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

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1. Find the cost of 2 tons, 15 cwts. at £1 16s, 0d. per 100 weight.

2. Simplify

    (a) $2\frac{3}{5} - 3\frac{9}{10} + 1\frac{11}{20}$
    (b) $1\frac{2}{3} \times 2\frac{1}{4} \times 3\frac{3}{5}$
    (c) $5.7 \times 1.7 \div 3.8$

3. Find the cost of

    (a) $3\frac{1}{2}$ pounds of butter at 4s, 2d. per pound.
    (b) 6 pounds of sugar at $7\frac{1}{2}$d. per pound.
    (c) $1\frac{3}{4}$ pounds of tea at 6s, 8d. per pound.
    (d) $2\frac{3}{4}$ stones of potatoes at 18s, 8d. per 100 weight.

    Find also the total cost of the bill.

4. A car travels at 60 miles per hour. How many feet will it travel in 1 second? How long will it take it to travel 110 yards?

5. Find the simple interest on £198 for 5 years at $5\frac{1}{4}\%$ per annum.

6. There is a rectangular park that is 440 yards long and 330 yards wide. Find the area of the park in (i) yards squared, (ii) acres.

    If a square park has the same area as this rectangular park, find the length of one side of the square park.

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[1]NB: Translated from the Irish version attached at the end of this document.

7. (a) Goods cost £10 10s, 0d, they were sold at a profit of 15%. Find the price they were sold for.

   (b) Goods cost £160 and were sold for £185. Find the % profit made.

   (c) A man makes $7\frac{1}{2}\%$ profit when he sells goods for £236 10s, 0d. What did the goods cost?

8. Given a solid cylinder 5 inches in height and 3 inches in diameter. Find (i) the surface area of the entire cylinder in inches squared correct to the nearest inch squared, (ii) the volume of the cylinder in cubic inches correct to the nearest cubic inch.

Scrúdú Meán-Teistiméireachta, 1961.

Bun-Mhatamaitic (Uimhríoct).

(Do Gearrcailí amháin.)

Dé Céadaoin, Meiteam 7—Maidin, 10 go dtí 12.

Na ceisteanna go léir a freagairt.

Is ionann marcanna do na ceisteanna go léir.

1. Faig costas 2 tn. 15 cm. de réir £1 16s. 0d. an céadmeádan.

2. Simpliġ:— (a) $2\frac{3}{5} - 3\frac{9}{10} + 1\frac{11}{20}$;

         (b) $1\frac{2}{3} \times 2\frac{1}{4} \times 3\frac{3}{5}$;

         (c) $5{\cdot}7 \times 1{\cdot}7 \div 3{\cdot}8$.

3. Faig costas

     (a) $3\frac{1}{2}$ pt. ime ar 4s. 2d. an punt,

     (b) 6 pt. siúcra ar $7\frac{1}{2}d.$ an punt,

     (c) $1\frac{3}{4}$ pt. tae ar 6s. 8d. an punt,

     (d) $2\frac{3}{4}$ cloc prátaí ar 18s. 8d. an céadmeádan.

Faig, freisin, costas iomlán na níte sin.

4. Taistealaíonn gluaisteán ar luas 60 míle san uair. Cé méad troig a taistealaíonn sé 1 secund amháin ? Cé méad ama a tógann sé cun 110 slat a taisteal ?

5. Áiriġ an t-ús simplí ar £198 ar fead 5 bliana de réir $5\frac{1}{4}\%$ sa bliain.

6. Tá páirc dronuilleogac 440 slat ar fad agus 330 slat ar leitead. Faig fairsinge na páirce (i) 1 slata cearnaca, (ii) in acraí.

Dá mbead an fairsinge céanna ag páirc cearnógac agus atá ag an bpáirc dronuilleogac, faig an fad a bead 1 slios amháin den páirc cearnógac sin.

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7. (a) Earra a cosnaig £10 10s. 0d., díolad é ar brabús 15%. Faig an pragas díolta.

     (b) Earra a cosnaig £160, díolad é ar £185. Faig an brabús faoin gcéad.

     (c) Déan fear brabús $7\frac{1}{2}\%$ nuair a díol sé earra ar £236 10s. 0d. Cad a cosnaig an t-earra ?

8. Tá dlút-šorcóir 5 or. ar airde agus tá 3 or. ina trastomas. Faig (i) fairsinge dromcla iomlán an tsorcóra ina orlaí cearnaca, ceart go dtí an t-orlac cearnac is gaire, (ii) toirt an tsorcóra ina orlaí ciúbaca, ceart go dtí an t-orlac ciúbac is gaire.