

AN ROINN OIDEACHAIS  
(Department of Education).

BRAINNSE AN MHEADHON-OIDEACHAIS  
(Secondary Education Branch).

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LEAVING CERTIFICATE EXAMINATION, 1939.

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HONOURS.

MECHANICAL DRAWING AND DESIGN.

TUESDAY, 20th JUNE.—AFTERNOON, 4 TO 6 P.M.

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GIRLS ONLY.

NOTE.—The use of mathematical instruments, protractors, scales, T- and set squares, and drawing-boards is allowed.

The number of the question must be distinctly marked by the side of each answer. Both sides of the paper may be used.

Questions marked (\*) have accompanying diagrams.

The number of marks assigned to each question is stated in brackets after the question.

Only FOUR questions to be attempted. TWO from SECTION A and TWO from SECTION B.

SECTION A.

Two questions only to be attempted in this Section.

(The questions in this Section must be solved accurately with the aid of drawing instruments. All lines used in constructions should be clearly shown).

\*Q. 1. Show by using instruments how you would set out the geometrical framework of the given diaper pattern. It will be sufficient to complete *half* the diagram.

[14]

\*Q. 2. The diagram shows the plan and elevation of a "Juliet" cap. Draw the true-shape of the piece of material that would fit accurately the portion A. Scale:  $\frac{1}{2}$  full-size.

[14]

\*Q. 3. The diagram represents an ornamental brooch. Draw full-size to the dimensions indicated.

[14]

## SECTION B.

Two questions only to be attempted in this Section.

Q. 4. Draw a design for the top of a hexagonal box to occupy a regular hexagon of  $2\frac{1}{2}$  inches side. The word, **ΠΥΔΑΡ**, or **POWDER**, should form an important feature of the design.

Two tones of one colour may be used, or the design may be finished in Black and White.

[23]

\*Q. 5. Draw a design for a repeating border 2 inches wide. Complete one repeat in colour and show the main lines of adjacent repeats.

The design must be based on the plant (*Arbutus*) illustrated in the diagram.

(Colour **MUST** be used in answering this question).

[24]

Q. 6. Make a design for a Tray-cloth 12 inches by 14 inches.

Scale :  $\frac{1}{2}$  full-size.

The design may be composed of Celtic, Floral, or geometric ornament and should be suitable for embroidery, stencilling, or painted ornament.

Complete *half* the design in Black and White, or two colours.

[23]

Q. 7. Draw a design in colour for the lid of a chocolate-box, 7 inches by 4 inches. The design is to be based on Celtic ornament or natural forms. The words, **ΑΝ ΠΡΟCΑ Θ'ΟΝ**, or **THE CROCK OF GOLD**, are to form an important feature of the design.

Not more than *four* colours may be used.

(Colour **MUST** be used in answering this question).

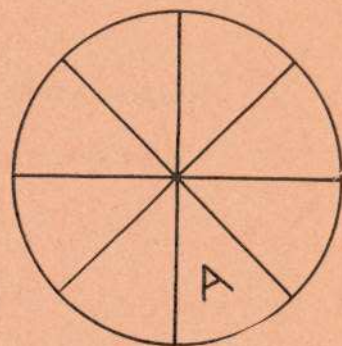
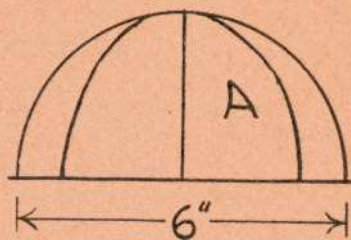
[24]

GIRLS ONLY.

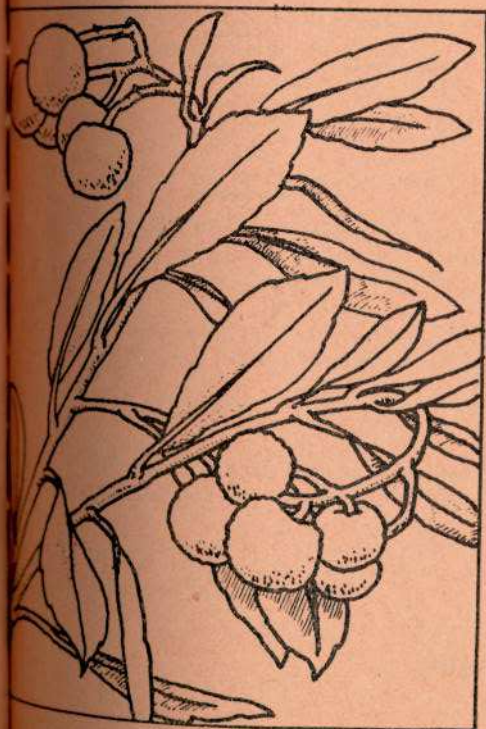


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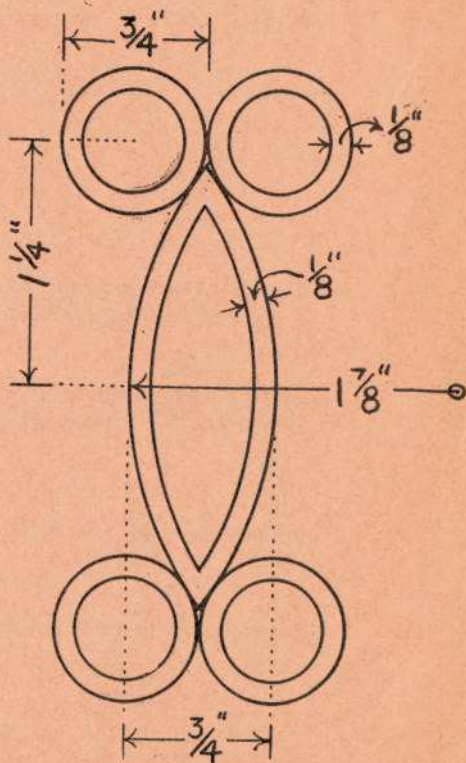
Q. 1.



Q. 2.



5.



Q. 3.