

AN ROINN OIDEACHAIS
(Department of Education).

BRAINNSE AN MHEADHON-OIDEACHAIS
(Secondary Education Branch).

LEAVING CERTIFICATE EXAMINATION, 1939.

HONOURS.

MECHANICAL DRAWING AND DESIGN.

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

BOYS 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. The diagram shows the elevation of a Bureau Bookcase. Draw the Bookcase to the scale of $1\frac{1}{2}$ inches to 1 foot.

[14]

*Q. 2. The plan and elevation of a metal-template are given. Draw a new elevation on X' Y'.

[14]

*Q. 3. Draw full-size the given diagram according 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: **STAMPAI**, or **STAMPS**, should form an important feature of the design.

Two tones of one colour may be used, or the design may be completed 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 (Wild Rose) illustrated in the diagram, which need not be treated naturalistically.

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

[24]

Q. 6. Make a design for a Finger-plate to be fixed to a door. The design is to occupy a rectangle $7\frac{1}{2}$ inches by 3 inches (vertical).

You may select any style of ornament and finish the design in colour or Black and White.

Your design should be suitable for reproduction in bronze, repoussé metal, enamelling, or painted wood.

State the material for which your design is intended.

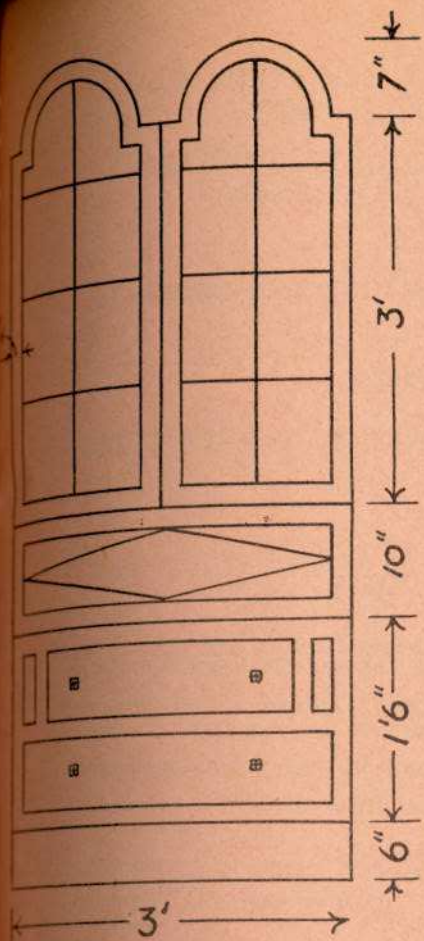
[23]

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, "**AN PRÓCA D'ÓR,**" 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).

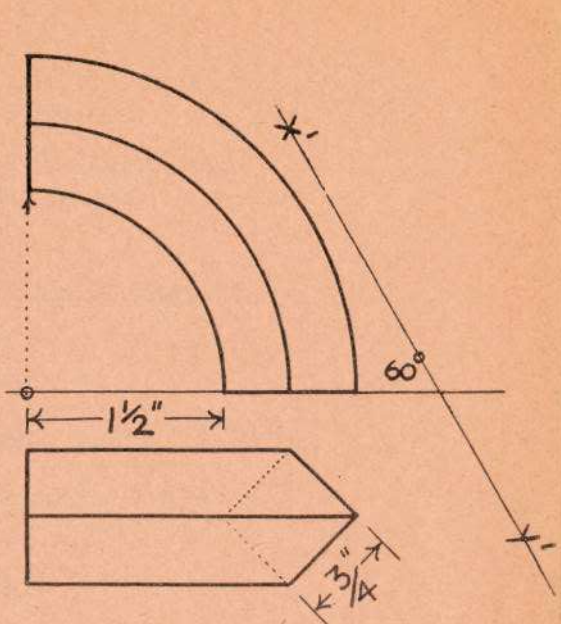
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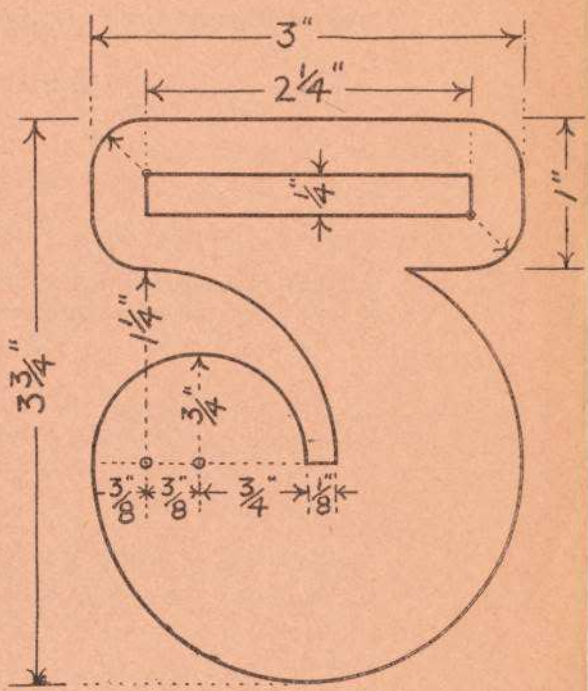
Q. 1.



Q. 5.



Q. 2.



Q. 3.