

AN ROINN OIDEACHAIS

(Department of Education).

BRAINNSE AN MHEADHON-OIDEACHAIS

(Secondary Education Branch).

LEAVING CERTIFICATE EXAMINATION, 1941.

HONOURS.

MECHANICAL DRAWING AND DESIGN.

WEDNESDAY, 18th 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. An outline dimensioned diagram of a Triptych is given. Draw the diagram to the scale of $1\frac{1}{2}$ inches to 1 foot.

[20.]

*Q. 2. The diagram represents a Door-knocker. Draw the knocker full-size to the dimensions indicated on the diagram.

[20.]

*Q. 3. The plan and elevation of a sailing-boat are given.

Draw a new elevation on $X^1 Y^1$.

SECTION B.

Two questions only to be attempted in this Section.

Q. 4. Draw a design for the lid of an oblong box for Toilet Soap.

The design is to occupy a rectangle $5\frac{1}{2}$ inches long by 3 inches wide.

Two colours may be used, or the design may be completed in Black and White.

[30.]

*Q. 5. Draw a design for a panel in the form of a diamond. The diagonals are to be $4\frac{1}{2}$ inches and $3\frac{1}{2}$ inches respectively. The design must be based on the flower (Hawthorn) illustrated on the diagram, and suitable for Inlay, Painted ornament, or Stencilling.

(Colour MAY be used in answering this question.)

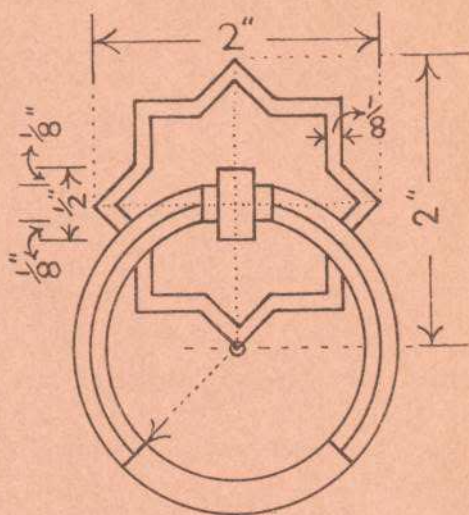
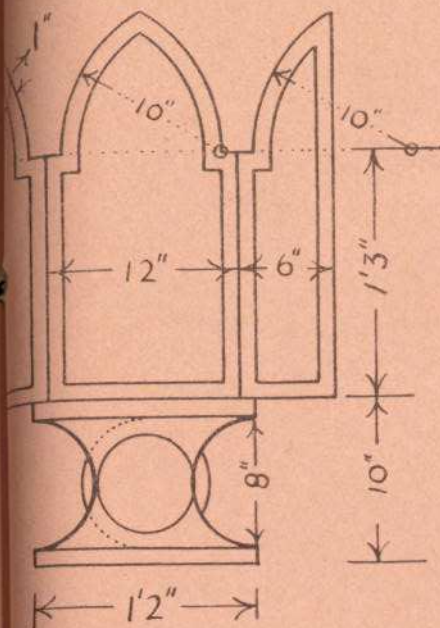
[30.]

Q. 6. Make a design suitable for a Fire-screen. The design may be any ornamental shape, $4\frac{1}{2}$ inches by 5 inches, outside measurement including a moulding or frame. State the material in which the design could be suitably carried out.

(Colour MAY be used in answering this question.)

[30.]

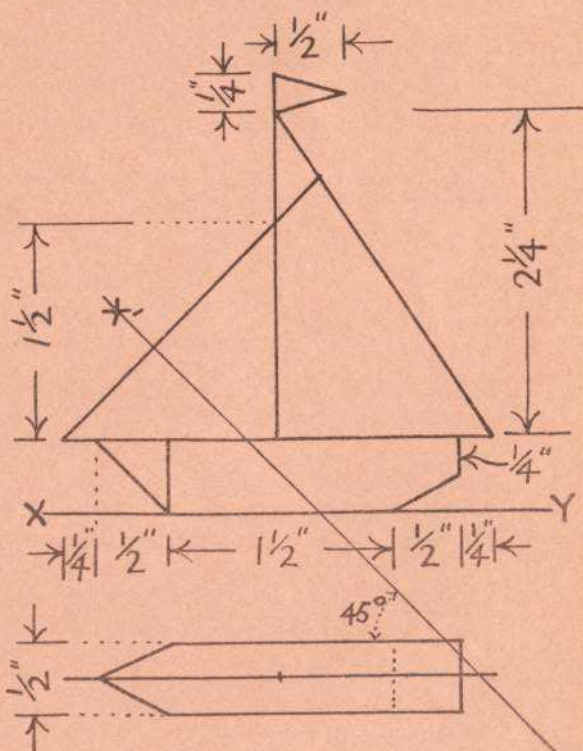
BOYS ONLY.



Q.2.



Q.5



Q.3.