

AN ROINN OIDEACHAIS
(Department of Education).

LEAVING CERTIFICATE EXAMINATION, 1951.

MECHANICAL DRAWING AND DESIGN.
COURSE B—PASS—BOYS AND GIRLS.

• THURSDAY, 14th JUNE.—MORNING, 10 TO 12.

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.

ONLY THREE questions to be attempted, not more than two of which are to be taken from Section A or Section B.

All questions carry equal marks.

100 marks allotted to this Paper.

SECTION A.

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

*1. Draw the diagram to the dimensions given, and within it draw in suitable proportions the word "POSRANNAÍOCT" in Gaelic letters, or the word "ADVERTISING" in Roman letters.

*2. The diagram gives the plan and elevation of the letter N. Draw (full-size), a new elevation on X' Y'.

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

*4. The diagram represents a Turn-screw handle. Draw, full-size, to the dimensions given.

*5. Draw with instruments, the geometrical basis on which the given repeating pattern is constructed.

It will be sufficient to complete *half* the diagram.

SECTION B.

6. Draw a design for a strip-poster to advertise "BOOKS," or "MATCHES." The design is to be rectangular in shape, 3 inches by 7 inches (horizontal).

Simple "one-stroke" lettering may be used to indicate the title or announcement.

(Colour MAY be used in answering this question).

7. Draw a design suitable for the cover of a case for Handkerchiefs. The design is to occupy a square of 5 inches side, and based on Celtic ornament or on Natural Forms.

(Colour MAY be used in answering this question).

8. Draw a design for an ornamental Clock-case in the form of a regular octagon of 3 inches side, and having a circular hole of 3 inches diameter pierced through its centre.

Any style of ornament may be selected, and the design is to be suitable for Leathercraft, Repoussé Metal, Enamelling, Inlay, or Stained-wood.

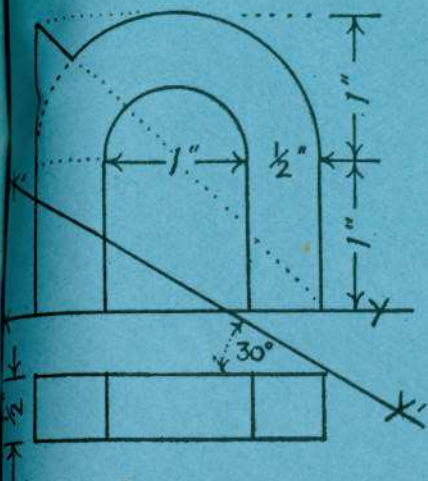
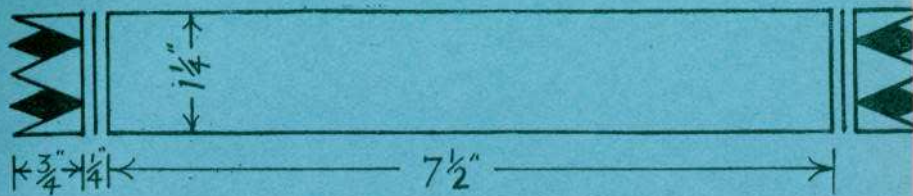
(Colour MAY be used in answering this question).

9. Make a design for a Finger-plate to be fixed to a Door in a Nursery.

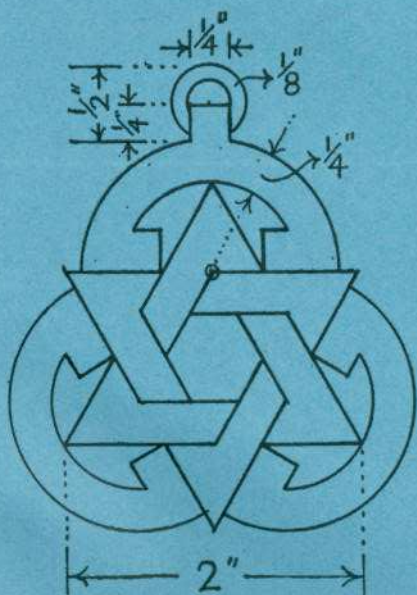
The design is to occupy a rectangle $7\frac{1}{2}$ inches by 3 inches (vertical). The design should be suitable for some definite craftwork.

(Colour MAY be used in answering this question).

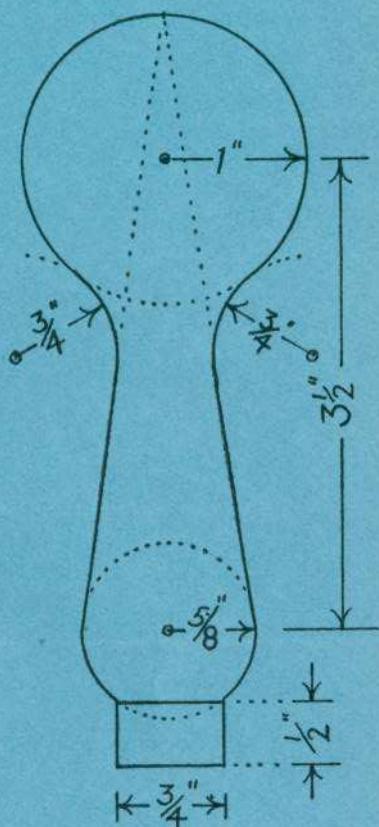
Q.1.



Q. 2.



Q.3.



Q.4.



1 " * $\frac{1}{2}$ " * $\frac{1}{2}$ " * 1 " * 1 "

Q.5