

AN ROINN OIDEACHAIS
(Department of Education).

LEAVING CERTIFICATE EXAMINATION, 1951.

MECHANICAL DRAWING AND DESIGN.

Course B—Honours.

BOYS AND GIRLS.

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

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 may be attempted, of which not more than two 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 constructions should be clearly shown.)

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

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

*2. The diagram represents a Drop-handle. Draw the diagram full-size to the dimensions shown. Show clearly how the points of contact are determined.

*3. The diagram shows the plan and elevation of an alarm-clock. Draw a new elevation of the diagram on a vertical plane represented in plan by X' Y'.

*4. The diagram represents an ornamental brooch. Copy the diagram full-size, according to the dimensions indicated.

SECTION B.

*5. Draw a design for the lid of a hexagonal box to contain "Cheese." The design is to occupy a regular hexagon of 2 inches side, and must be based on the plant (Hawthorn), illustrated in the diagram.

(Colour MAY be used in answering this question).

6. Draw a design for a Poster or Showcard to advertise "GLOVES," or "TIES." The design is to be rectangular in shape, 4 inches by 6 inches (vertical).

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

(Colour MAY be used in answering this question).

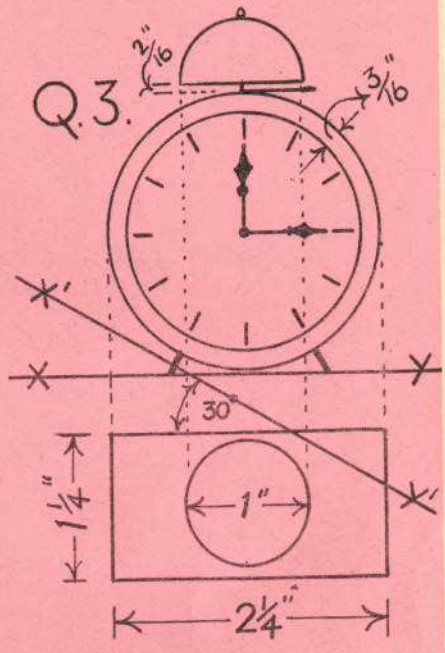
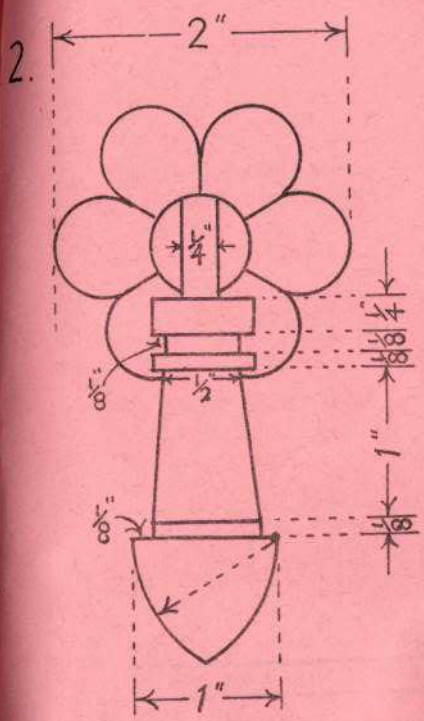
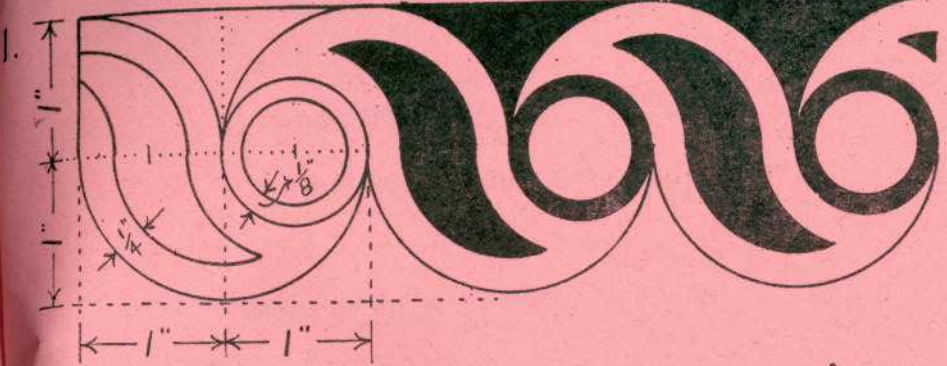
7. Make a design suitable for a Bookmark. Your design should be rectangular in shape, 7 inches by 2 inches.

(Colour MAY be used in answering this question).

8. Draw a design for a semi-circular Tea-cosy, of 10 inches diameter. The design should be suitable for, either Embroidery, Leathercraft, Stencilling, Cut-work or Appliqué.

Any style of ornament may be used. Scale: $\frac{1}{2}$ full-size.

(Colour MAY be used in answering this question).



Q.5.