

AN ROINN OIDEACHAIS
(Department of Education).

LEAVING CERTIFICATE EXAMINATION, 1946.

MECHANICAL DRAWING AND DESIGN.

Course B—Honours.

BOYS AND GIRLS.

FRIDAY, 21st JUNE.—MORNING, 10 TO 12 NOON.

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.

Only **THREE** questions to 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. The diagram represents an ornamental Buckle.

Draw the diagram full-size to the dimensions indicated.

*2. The Plan, Front and Side Elevations of a Trestle are shown on the diagram.

Draw a New Elevation on a ground-line parallel to X' Y'.

*3. An outline dimensioned diagram of Callipers is given.

Draw the diagram full-size to the dimensions indicated.

*4. An eight-pointed Star is shown on the diagram.

Copy the diagram, full-size, according to the dimensions indicated.

SECTION B.

*5. Draw a design for a circular China Plate 12 inches in diameter.
Scale : $\frac{1}{2}$ full-size.

The design must be based on the plant (Ivy) illustrated on the diagram.

(Colour MAY be used in answering this question.)

6. Draw a design for the decoration of a Table-centre.

The design may be any ornamental shape, 10 inches by 15 inches outside measurement, including edging or fringe, and suitable for Leathercraft, Embroidery, Weaving, Appliqué, or Stencilling.

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

(Colour MAY be used in answering this question.)

7. Draw a design for a Strip-poster to advertise (a) "SAUCE", or (b) "LEMONADE".

The design is to be rectangular in shape, 9 inches by 15 inches (horizontal).

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

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

(Colour MAY be used in answering this question.)

8. Make a design for an "All-over" Drop Pattern based on rectangles $1\frac{1}{2}$ inches by 2 inches.

One complete unit should be drawn, and sufficient of the adjacent units indicated to show the continuity of the pattern and effect of the repetition.

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.

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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. The diagram shows a portion of Lace-edging.

Show by using instruments how you would set out the geometrical framework of the given pattern.

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

*2. The diagram represents an ornamental Initial Gaelic Letter "O."

Draw the diagram full-size to the dimensions given.

*3. The diagram represents an ornamental Buckle.

Draw the diagram full-size to the dimensions indicated.

*4. An eight-pointed Star is shown on the diagram.

Copy the diagram full-size according to the figured dimensions.

SECTION B.

*5. Draw a design for a circular China Plate 12 inches in diameter.
Scale: $\frac{1}{2}$ full-size.

The design must be based on the plant (Ivy) illustrated on the diagram.

(Colour MAY be used in answering this question.)

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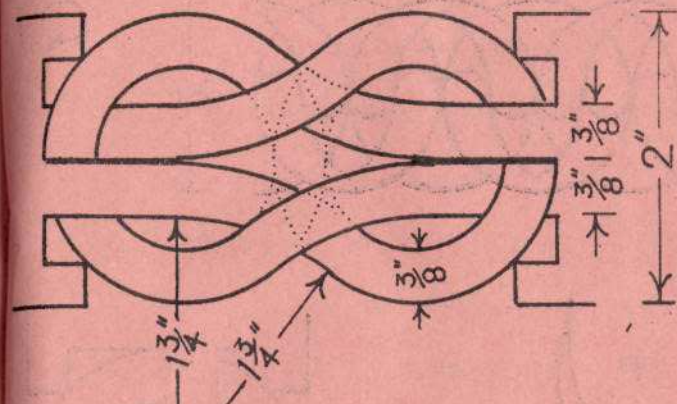
Scale: $\frac{1}{2}$ full-size.

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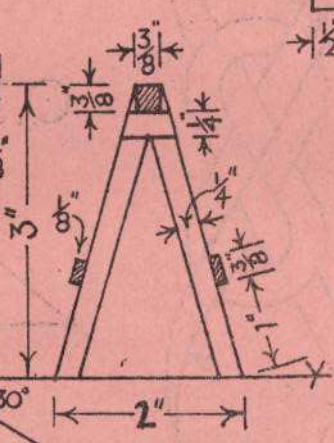
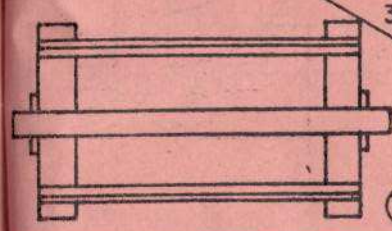
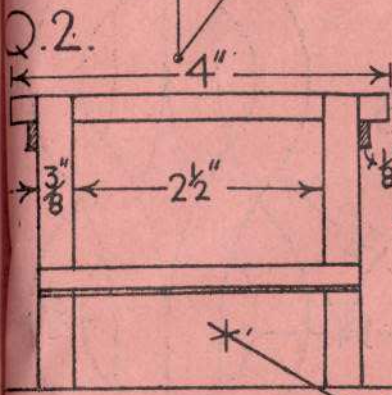
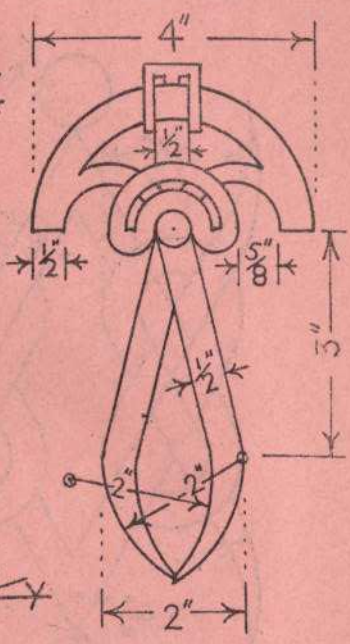
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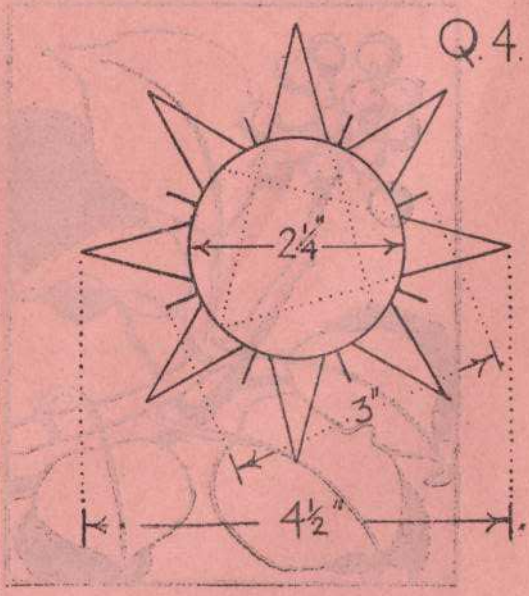


Q.1.



Q.3.

Q.5



Q.4.

