

AN ROINN OIDEACHAIS

(Department of Education).

LEAVING CERTIFICATE EXAMINATION, 1945.

MECHANICAL DRAWING AND DESIGN.

Course B—Honours.

BOYS AND GIRLS.

WEDNESDAY, 20th 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.

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.)

*Q. 1. The diagram shows the plan and elevation of a Wheelbarrow.

Draw full-size, a new elevation on $X' Y'$.

*Q. 2. The diagram represents a Table-lamp.

Draw the diagram full-size to the dimensions given.

*Q. 3. Copy the ornament shown on the diagram, full-size, according to the dimension indicated.

*Q. 4. The diagram represents an ornamental Initial letter O.
Draw the diagram full-size to the dimensions given.

SECTION B.

*Q. 5. Draw a design for a panel in the form of a diamond. The diagonals are to be 5 inches and 4 inches respectively. The design must be based on the flower (*Convolvulus*) illustrated on the diagram, and suitable for Embroidery, Leathercraft, Stencilling, or Painted Ornament.

(Colour MAY be used in answering this question.)

Q. 6. Make a design for a Calendar $4\frac{1}{2}$ inches by 6 inches (vertical).

Any style of ornament may be used, and a blank space may be left for the days of the week and months of the year.

(Colour MAY be used in answering this question.)

Q. 7. Draw a design for a Poster or Showcard to advertise "BOOT POLISH."

The design is to be rectangular in shape, 5 inches by 7 inches (vertical). Simple "One-stroke" lettering may be used to indicate the title or announcement.

(Colour MAY be used in answering this question.)

Q. 8. Draw a design for an "All-over" repeating pattern based on regular hexagons of 2 inches side.

One repeat should be completed, in two colours, or in black and white, and the main lines of the adjacent repeats should be indicated, to show the continuity of the pattern.

Any style of ornament may be used.

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.

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.

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.)

*Q. 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.

*Q. 2. An ornamental symbol for embroidery is shown on the diagram.

Make full-size, a properly constructed drawing of the diagram using the dimensions given.

*Q. 3. Copy the ornament shown on the diagram, full-size, according to the dimension indicated.

*Q. 4. The diagram represents an ornamental Initial letter O. Draw the diagram full-size to the dimensions given.

SECTION B.

*Q. 5. Draw a design for a panel in the form of a diamond. The diagonals are to be 5 inches and 4 inches respectively. The design must be based on the flower (*Convolvulus*) illustrated on the diagram, and suitable for Embroidery, Leathercraft, Stenciling, or Painted Ornament.

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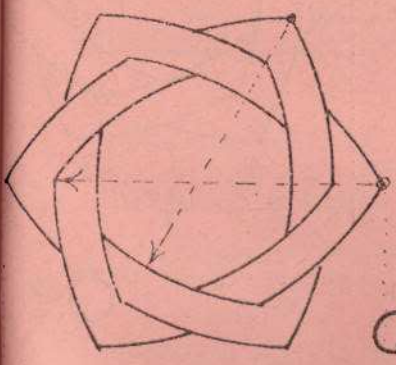
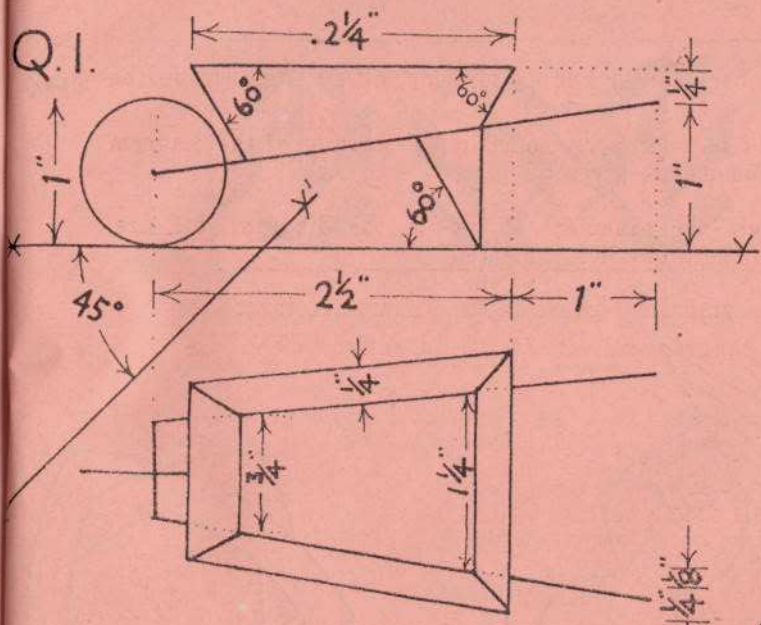
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Q. 8. Draw a design for an "All-over" repeating pattern based on regular hexagons of 2 inches side.

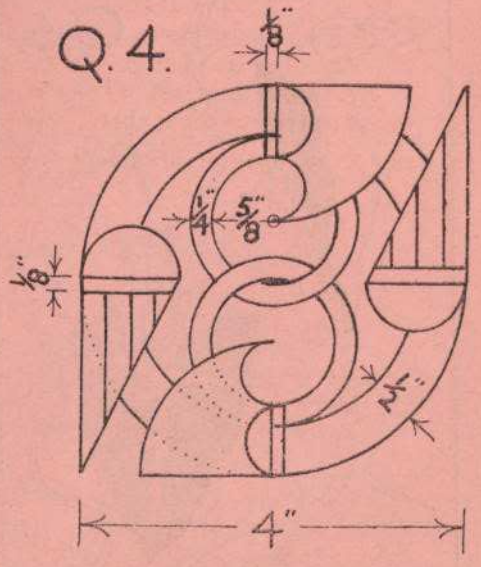
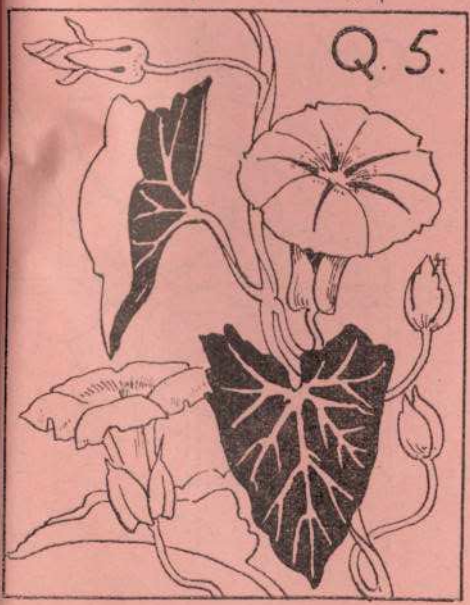
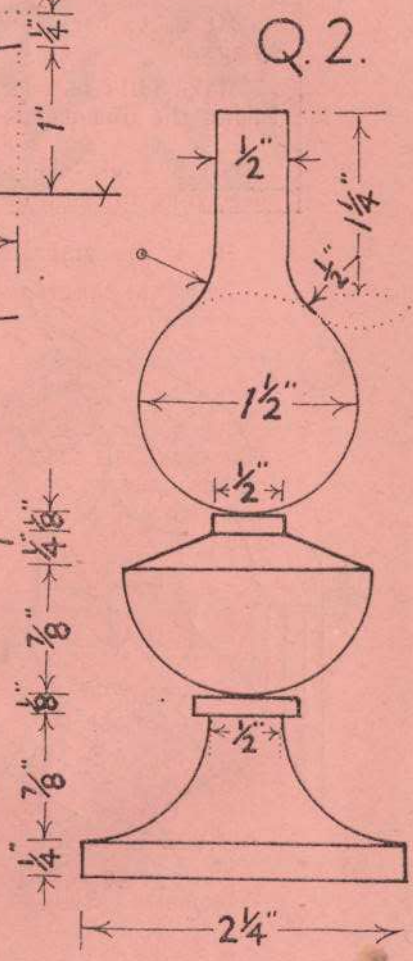
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Any style of ornament may be used.

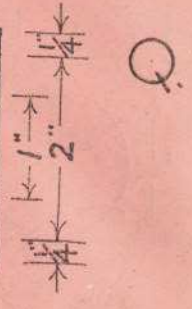
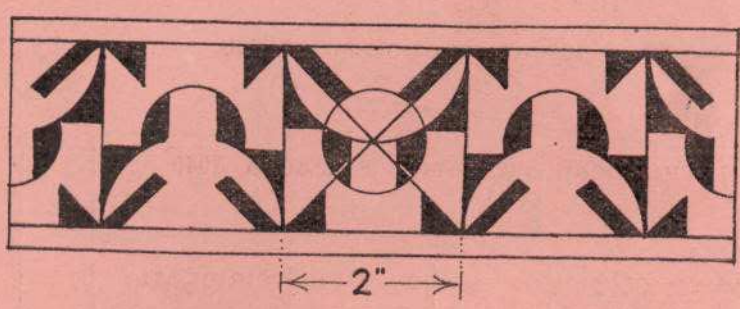
BARŚŪIN ΔMĀIN - BOYS ONLY



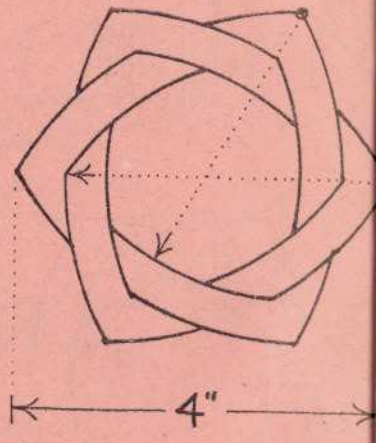
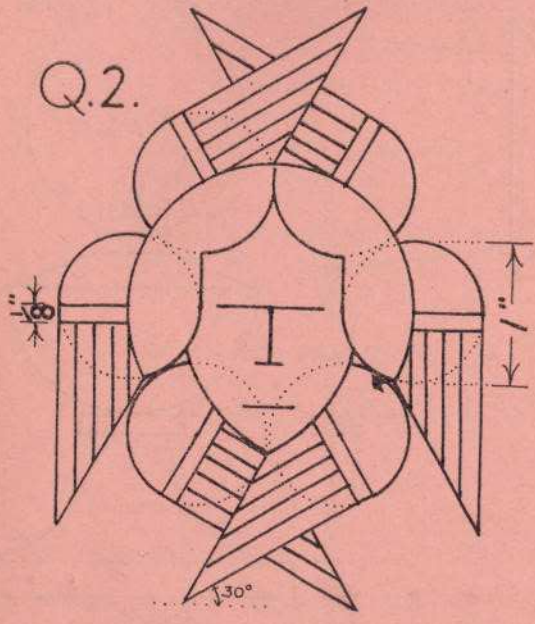
Q.3.



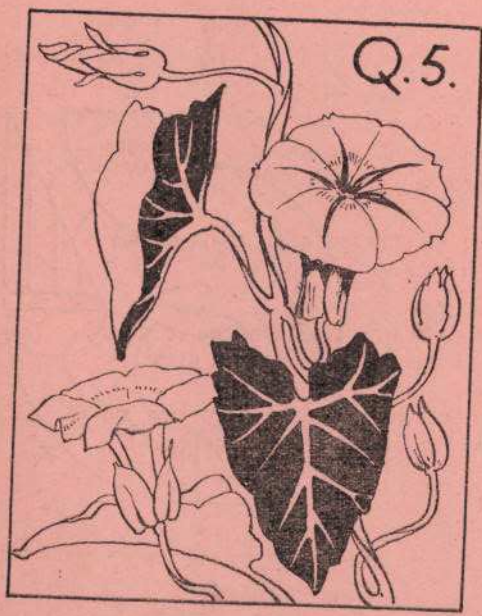
ΘΕΛΡΡΑΙΛΙ ΔΑΜΑΙΝ - GIRLS ONLY



Q.2.



Q.3.



Q.4.

