

AN ROINN OIDEACHAIS
(Department of Education).

BRAINSE AN MHEAN-OIDEACHAIS
(Secondary Education Branch).

LEAVING CERTIFICATE EXAMINATION, 1930.

PASS.

MECHANICAL DRAWING AND DESIGN.
BOYS AND GIRLS.

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.

All construction lines must be clearly shown.

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.

*Q. 1. The diagram shows a perspective sketch of a box with the lid open at an angle of 45° . Draw any plan and elevation to the dimensions given. [10]

*Q. 2. The elevation is given of a lean-to roof and square chimney stack with circular flue. Draw the plan of the chimney and show the true shape where the brickwork intersects the roof. [12]

*Q. 3. Draw the given diagram to the figured dimensions. All construction lines must be clearly indicated. [10]

*Q. 4. Set out the diaper pattern shown in diagram using the figured dimension. [10]

*Q. 5. Draw the Facia-board shown in diagram and space the word STORE in Roman letters 6 inches high. Or the word SIOᵽΔ in Gaelic letters 6 inches high. Scale $1\frac{1}{2}$ inches to one foot. [11]

Q. 6. Draw a design to occupy an equilateral triangle of 7 inch side. The design may be composed of Celtic ornament or of natural forms ornamentally treated. State the manufacture or material for which your design is suited. [22]

Or,

Design a vertical border the repeat to measure 7 inches by 4 inches. Your design should be suitable for Inlay, Stencilling, or Painted Ornament. State the method of reproduction. [22]

GIRLS ONLY.

NOTE.—The use of mathematical instruments, protractors, scales, T- and set squares, and drawing-boards is allowed.

All construction lines must be clearly shown.

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.

Q. 1. Within a rectangle 4 inches by $1\frac{1}{2}$ inches draw in proportion the word SHIPS in Roman letters. [10]

Or:—

The word $\text{LON}\overline{\text{S}}\Delta$ in Gaelic letters. Finish in pencil, pen or brush. [10]

*Q. 2. Copy the pattern to the dimensions given. [10]

*Q. 3. Draw the given rectangular ornament to the figured dimension. All other measurements must be in proportion. Show your method of finding centres of arcs. [9]

*Q. 4. The elevation is given of a hexagonal lamp-shade. Draw the plan and trace on one section the plan of the device shown on elevation. Scale, 2 inches to 1 foot. [12]

*Q. 5. The line plan of an ornamental garden is given. Draw this to a scale of $\frac{1}{4}$ -inch to 1 foot. Show the construction for at least one half of the ellipse. [12]

Q. 6. Draw a design to occupy a rectangle 6 inches by $3\frac{1}{2}$ inches.

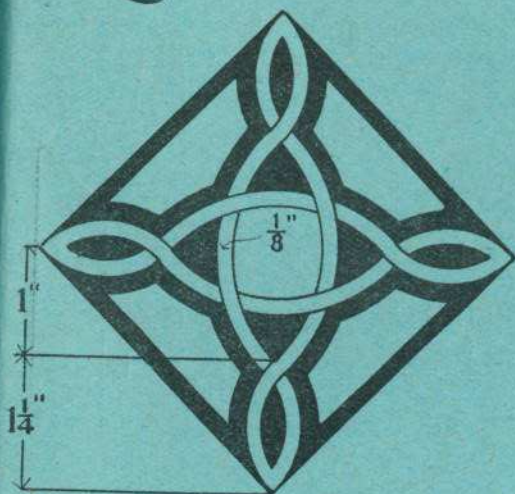
The design may be based on Celtic ornament, or on geometric and free-drawn forms combined.

State the material and process for which your design is suited. [22]

Or,

Make a design for a tea-cosy 12 inches long and 10 inches high. The design should be suitable for embroidery, stencilling or embossed leather. Scale $\frac{1}{2}$ full size. [22]

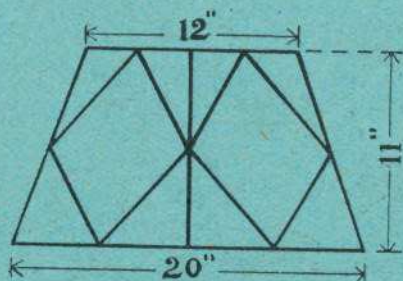
Q2.



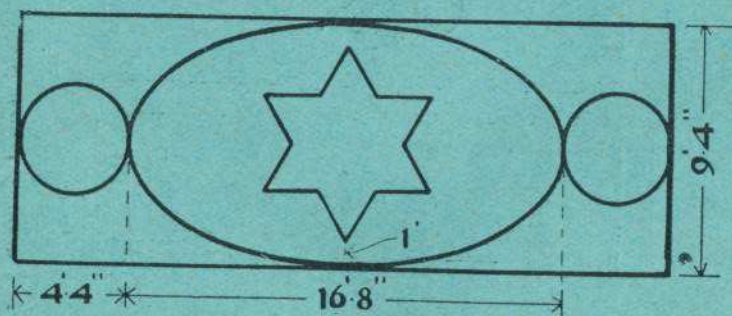
Q3.



Q4.

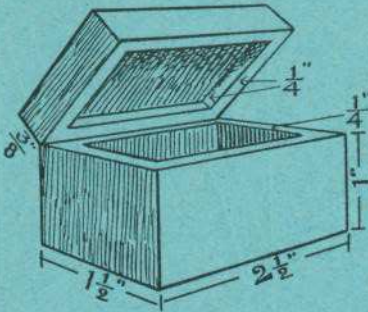


Q5.

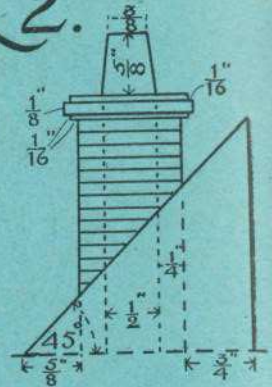


BOYS ONLY.

Q1.

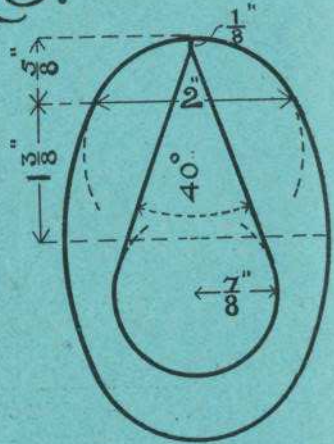
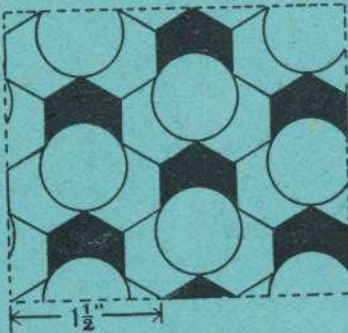


Q2.



Q3.

Q4.



Q5.

