

AN ROINN OIDEACHAIS
(Department of Education).

BRAINSE AN MHEÁN-OIDEACHAIS
(Secondary Education Branch).

LEAVING CERTIFICATE EXAMINATION, 1932.

PASS.

MECHANICAL DRAWING AND DESIGN.
BOYS AND GIRLS.

TUESDAY, 7th 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. Within a rectangle $4\frac{1}{2}$ inches by $1\frac{1}{2}$ inches draw with pencil, pen or brush, in letters proportionate to the space, the word **SOLAS** in Gaelic letters.

Or

The word **LIGHT** in Roman letters. [9]

* Q. 2. The diagram shows a wrought-iron grille. Draw the grille to the dimension indicated. [10]

* Q. 3. An outline dimensioned diagram of a door is given. Draw to a scale of $\frac{3}{4}$ inch to 1 foot. [9]

* Q. 4. The plan and elevation of a square tower with a pyramidal roof are given. Draw a new elevation of the tower on a vertical plane represented in plan by **X'Y'**.
Scale 1 inch to 10 feet. [14]

* Q. 5. The diagram gives the plan and elevation of a disc through which a square opening has been cut. Draw a new elevation of the disc when its plane is vertical and inclined at 45° to the vertical plane of projection. [11]

Q. 6. Make a design to suit a quadrant (quarter circle) of 5 inch radius, standing on its angular point. Your design may be composed of Celtic, Floral, or Geometric ornament. An initial Gaelic or Roman letter is to form an important feature of the design.

Two colours may be used, or your design may be finished in black and white. [22]

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Q. 1. Within a rectangle $4\frac{1}{2}$ inches by $1\frac{1}{2}$ inches draw with pencil, pen or brush, in letters proportionate to the space, the word **SOLAS** in Gaelic letters.

Or

The word **LIGHT** in Roman letters.

[9]

* Q. 2. Make a drawing of one repeat of the given border, using the figured dimensions. The bands are $\frac{1}{8}$ inch in width.

[9]

* Q. 3. Copy the Diaper pattern shown in diagram to the dimensions given.

[9]

* Q. 4. Set out the necessary construction lines of the given pattern to the dimension indicated.

[12]

* Q. 5. The diagram gives a plan and elevation of a cup. Draw the elevation of the cup to the dimensions given.

Twelve vertical units similar to the one shown are to be equally spaced round the border **A**. Show in elevation three of the units.

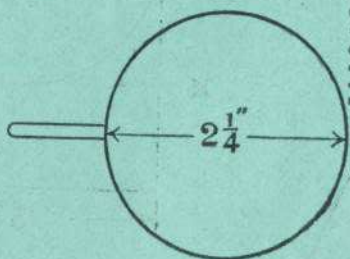
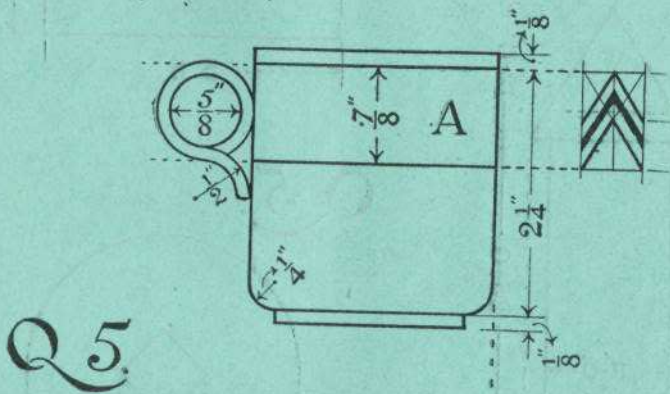
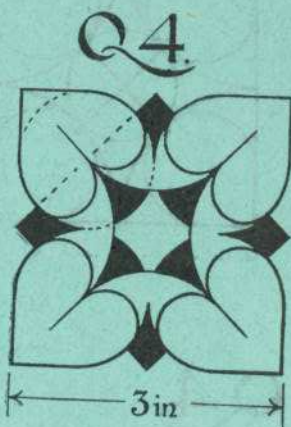
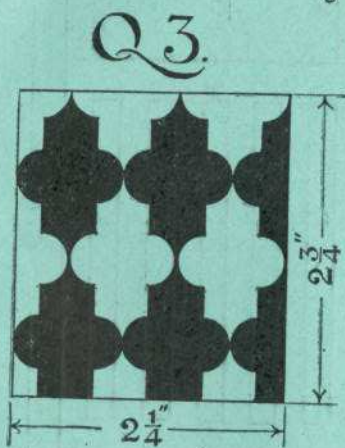
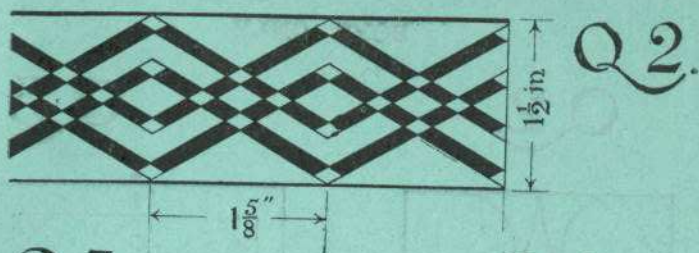
[14]

Q. 6. Draw a design to occupy a square of $4\frac{1}{2}$ inches side. Your design may be based on Celtic, Floral or Geometric ornament. An initial Gaelic or Roman letter is to form an important part of the design.

Two colours may be used, or the design may be finished in black and white.

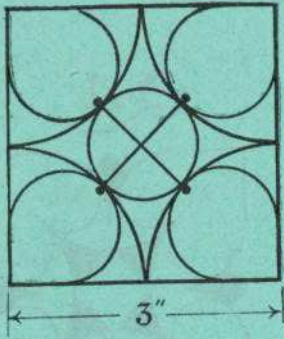
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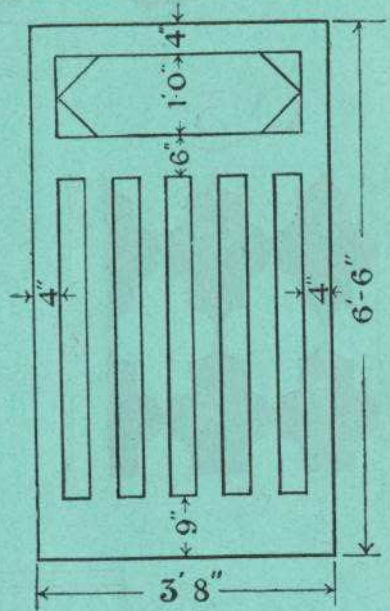


BOYS ONLY.

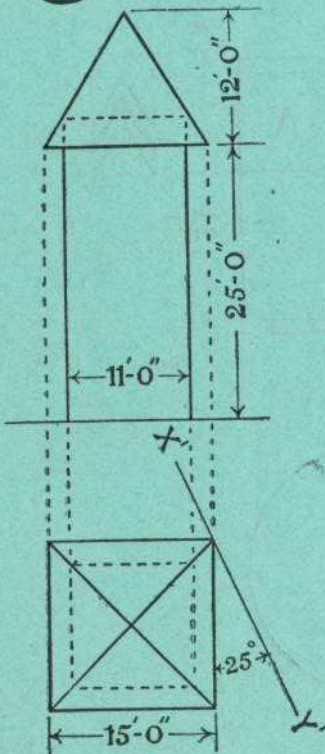
Q2.



Q3.



Q4.



Q5.

