

AN ROINN OIDEACHAIS

(Department of Education).

BRAINSE AN MHEÁN-OIDEACHAIS

(Secondary Education Branch).

INTERMEDIATE CERTIFICATE EXAMINATION, 1927.

MECHANICAL DRAWING AND DESIGN.

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WEDNESDAY, 22nd JUNE.

AFTERNOON, 4 to 6 P.M.

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.

Q. 1. At the top of your drawing-paper, between horizontal lines $1\frac{1}{4}$ inches apart, draw, with pencil, pen or brush, one of the following words:—

The word **ḂON** in Gaelic letters. _____

Or,

The word **ONE** in Roman letters. _____

*Q. 2. Draw the pattern to the dimensions given.

*Q. 3. Draw, to a scale of $1\frac{1}{2}$ inches to 1 foot, the diagram of the barometer-case to the dimensions shown.

An ordinary divided rule may be used as a scale.

*Q. 4. The elevation is given of a Right Prism with square ends. One of its rectangular faces is inclined at an angle of 30° to the H.P. Draw the plan and show the section made by the horizontal plane D.E. The part in section should be indicated by lightly shading it.

*Q. 5. The diagram shows the front elevation of a Kitchen Dresser. Draw the elevation to a scale of $\frac{3}{4}$ inches to 1 foot. Show the elevation of door A open at an angle of 60° and door B open at an angle of 45° . Thickness of doors to be neglected.

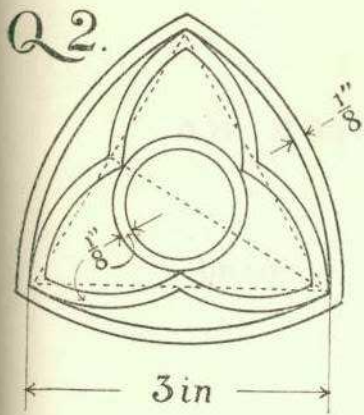
Q. 6. Draw a design to suit a rectangle 8 inches by 5 inches. The design may be composed of geometric forms, or of geometric and free-drawn forms combined, or entirely of free forms.

Two tones of one colour may be used, or the design may be finished in black and white only.

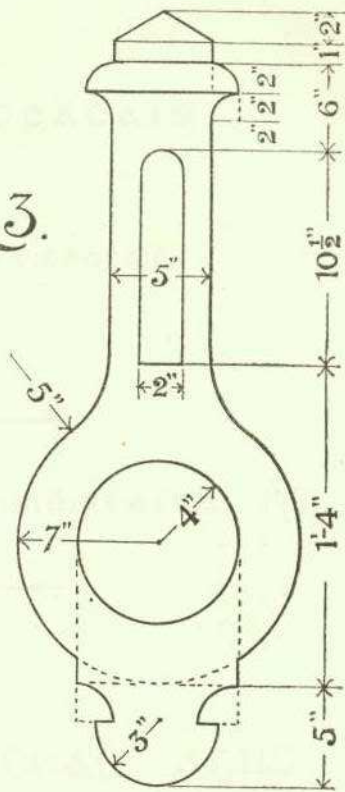
Or,

Draw a design to occupy an equilateral triangle of 8 inches side. The design may be based on Celtic ornament, or on natural forms ornamentally treated.

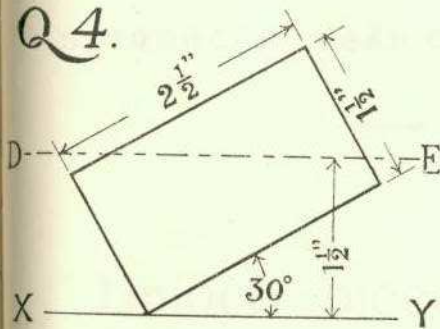
Two tones of one colour may be used, or the design may be finished in black and white only.



Q3.



Q4.



Q5.

