

# AN ROINN OIDEACHAIS

(Department of Education).

## BRAINSE AN MHEÁN-OIDEACHAIS

(Secondary Education Branch).

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INTERMEDIATE CERTIFICATE EXAMINATION, 1928.

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# MECHANICAL DRAWING AND DESIGN.

*TUESDAY, 19th 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 **cÁil** in Gaelic letters.

Or,

The word **FAME** in Roman letters.

\*Q. 2. Set out geometrically the interlaced strap-work pattern shown in diagram, using the figured dimensions.

The bands are  $\frac{1}{4}$ " wide throughout. It will be sufficient to complete *half* the pattern.

\*Q. 3. An elevation of a Cube standing on the H.P. and a right square pyramid resting centrally on the top of the Cube, is given. 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. 4. Draw the Clock-case shown in the diagram according to the dimensions given, showing all the necessary construction lines.

\*Q. 5. The front and side elevations of a Dressing-table are given. Draw the front elevation and plan. Scale  $\frac{3}{4}$ -inch to 1 foot.

An ordinary divided rule may be used as a Scale.

Q. 6. Draw a design to occupy a circle of  $6\frac{1}{2}$  inches diameter. The design may be composed entirely of geometric forms, or of geometric and free-drawn forms combined or entirely of free forms. The design may be in two tones of one colour, or in black and white.

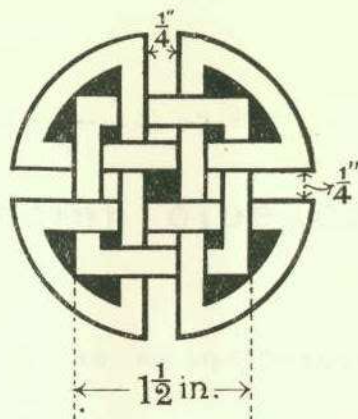
Or,

Draw a design for a repeating vertical border  $3\frac{1}{2}$  inches wide, exclusive of marginal lines. The design may be based on Celtic ornament or on natural forms ornamentally treated.

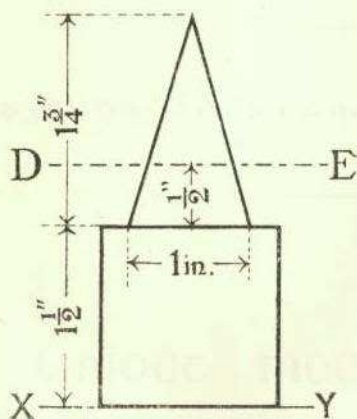
Two tones of one colour may be used, or the design may be finished in black and white only.

Two repeats to be shown.

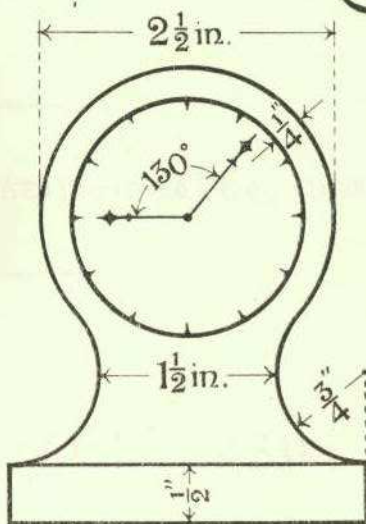
Q2.



Q3.



Q4.



Q5.

