

AN ROINN OIDEACHAIS

(Department of Education).

BRAINSE AN MHEÁN-OIDEACHAIS

(Secondary Education Branch).

INTERMEDIATE CERTIFICATE EXAMINATION, 1932.

**MECHANICAL DRAWING
AND DESIGN.**

TUESDAY, 7th 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. Draw with pencil, pen or brush, between horizontal lines 1 inch apart, one of the following words:—

The word **mÓTOR** in Gaelic letters.

Or:—

The word **MOTOR** in Roman letters.

[8]

* Q. 2. Copy the lattice door given, increasing the height to 4 inches, and the other measurements in proportion.

[10]

* Q. 3. Draw the given diagram of a padlock, using the figured dimensions. Show clearly how all the points of contact are determined.

[11]

* Q. 4. Draw the geometrical basis of the tile pattern shown in diagram to the dimensions indicated. It will be sufficient to complete *half* the pattern.

[10]

* Q. 5. The diagram shows in perspective three bricks each $9'' \times 4\frac{1}{2}'' \times 3''$. Draw a plan and elevation of the bricks. Scale $\frac{1}{6}$ full size.

[14]

Q. 6. Draw a design to occupy an equilateral triangle of $4\frac{1}{2}$ inches side.

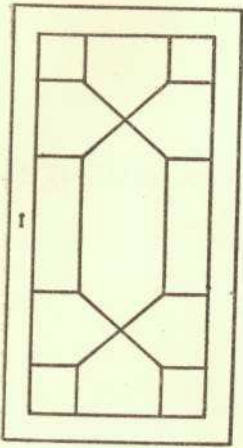
You may select any style of ornament, and finish the design in black and white or in two colours.

Or:—

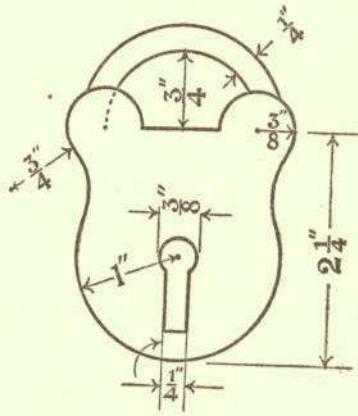
Draw a design to fill a circle of $4\frac{1}{2}$ inch diameter. The design must be Celtic or Floral in treatment. Two tones of one colour may be used, or the design may be finished in black and white.

[22]

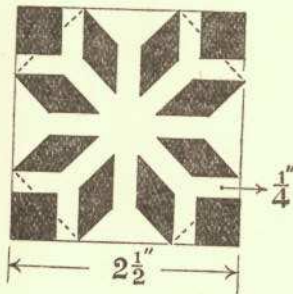
Q2.



Q3.



Q4.



Q5.

