

AN ROINN OIDEACHAIS
(Department of Education).

BRAINNSE AN MHEÁN-OIDEACHAIS
(Secondary Education Branch).

LEAVING CERTIFICATE EXAMINATION, 1934.

HONOURS.

MECHANICAL DRAWING AND DESIGN.
BOYS AND GIRLS.

TUESDAY, 19th 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. Make a drawing of the electric lamp stand (full size) to the dimensions given. [10]

*Q. 2. Draw the Gothic window to the dimensions shown. [10]

*Q. 3. Construct a diagonal scale of $3\frac{1}{2}$ inches to 5 feet. Using your scale, draw the given plan of a seat which fits into a bay-window. [10]

*Q. 4. A plan and elevation of an alarm-clock are shown in diagram. Draw a new elevation, when the face of the clock is inclined to the vertical plane at an angle of 45° . [11]

*Q. 5. A plan and elevation of a meat-safe are given. Draw a new elevation, when the front of the safe makes an angle of 30° with the vertical plane. Scale 1 inch to 1 foot. [12]

Q. 6. Draw a design for a name-plate to be fixed to a door or gate. The design is to occupy a rectangle $5\frac{1}{2}$ inches by 3 inches. The words **an coláiste**, or **THE COLLEGE** are to form an important feature of the design.

Your design should be suitable for reproduction in bronze, repoussé, metal or painted wood.

State the material for which your design is intended. [22]

GIRLS ONLY.

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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. Draw a triangle whose perimeter equals 4 inches, the sides to be in the proportion 4 : 6 : 8. Circumscribe a circle about the triangle.

[8]

*Q. 2. Show the construction you would employ in setting out the given diaper pattern according to the given dimensions. Complete one repeat.

[10]

*Q. 3. Copy the pattern to the dimensions shown.

[10]

*Q. 4. Show by using instruments, how you would set out the portion of a D'Oyley shown in diagram, using the figured dimensions.

[11]

*Q. 5. The plan and side elevation of a Cheese Dish are shown in diagram.

Draw the front elevation and project the ornament shown in plan on to the top of cover.

[14]

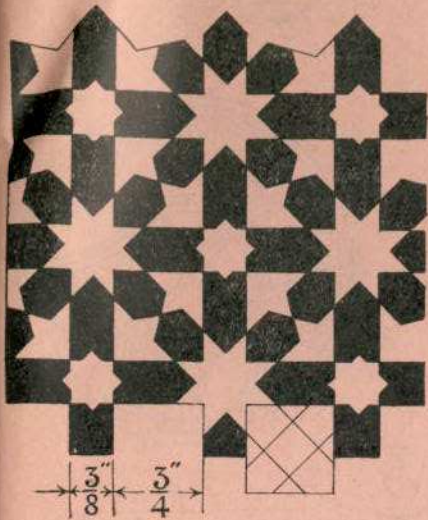
Q. 6. Draw a design for the Cover of a prospectus $3\frac{1}{2}$ inches by 5 inches.

The design should be suitable for reproduction in black and white or two colours, and the word and figures **seisiún, 1934** or **SESSION, 1934**, should form an important part of the design. State the process by which your design could be suitably reproduced.

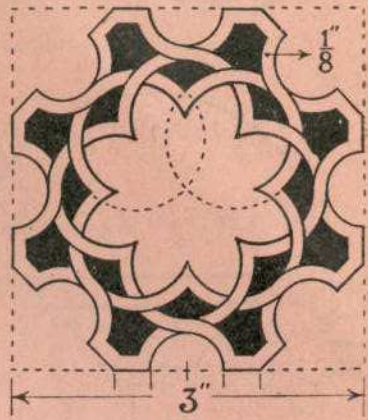
[22]

GIRLS ONLY:

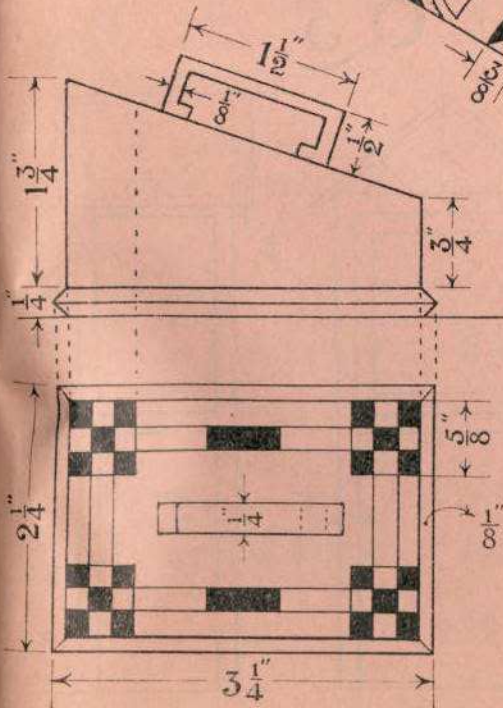
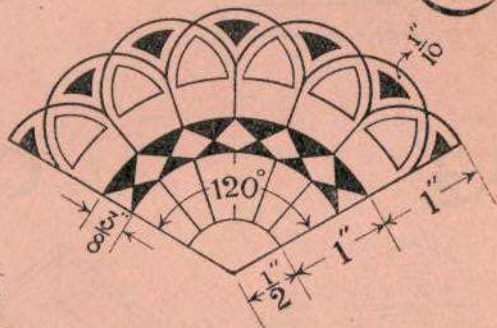
Q2.



Q3.



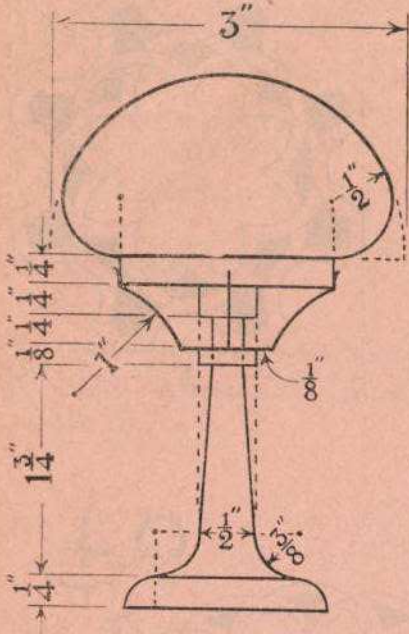
Q4.



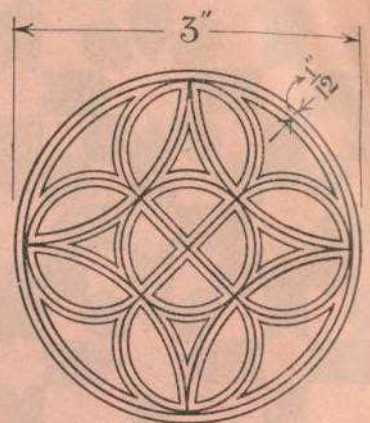
Q5.

BOYS ONLY.

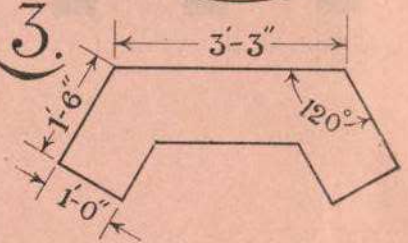
Q1.



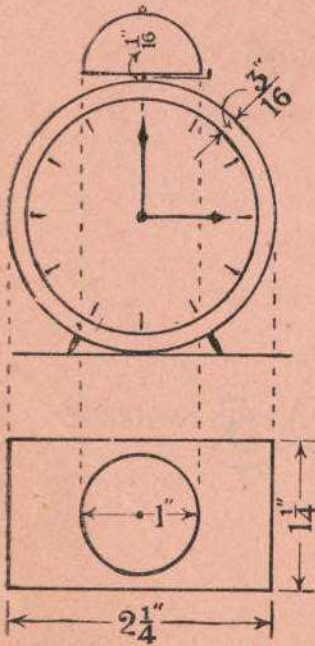
Q2.



Q3.



Q4.



Q5.

