

An Roinn Oideachais agus Eolaíochta

S 60 BL

B

JUNIOR CERTIFICATE EXAMINATION, 2000

10032

TECHNICAL GRAPHICS — ORDINARY LEVEL

THURSDAY 15th JUNE - MORNING, 9.30 — 12.00

SECTION B — 280 MARKS

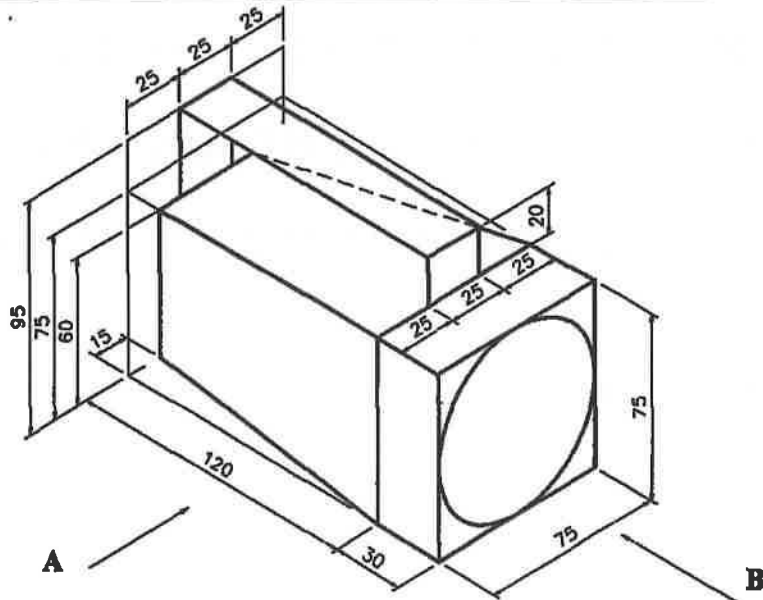
INSTRUCTIONS FOR SECTION B

- (a) **Any four questions to be answered.**
- (b) **All questions in this section carry equal marks.**
- (c) **The number of the question must be distinctly marked by the side of each answer.**
- (d) **Work on one side of the paper only.**
- (e) **Examination number must be distinctly marked on each sheet of paper used.**



SECTION B (ANSWER ANY FOUR QUESTIONS- ALL QUESTIONS CARRY EQUAL MARKS)

1

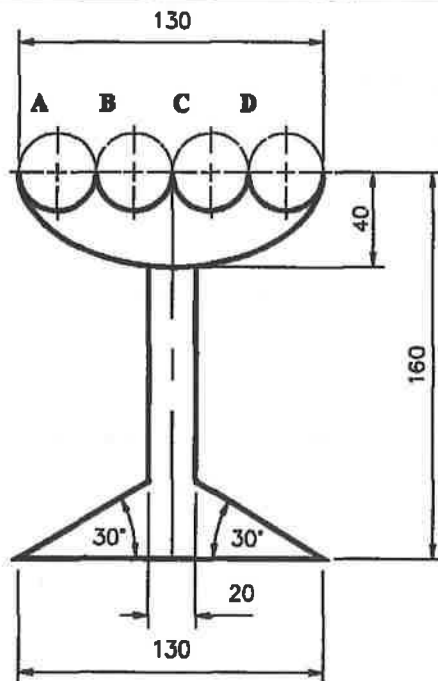


The figure shows the outline of a TORCH. Draw FULL SIZE :-

- (a) A front elevation looking in the direction of arrow A.
- (b) An end elevation looking in the direction of arrow B.
- (c) A plan projected from the front elevation.

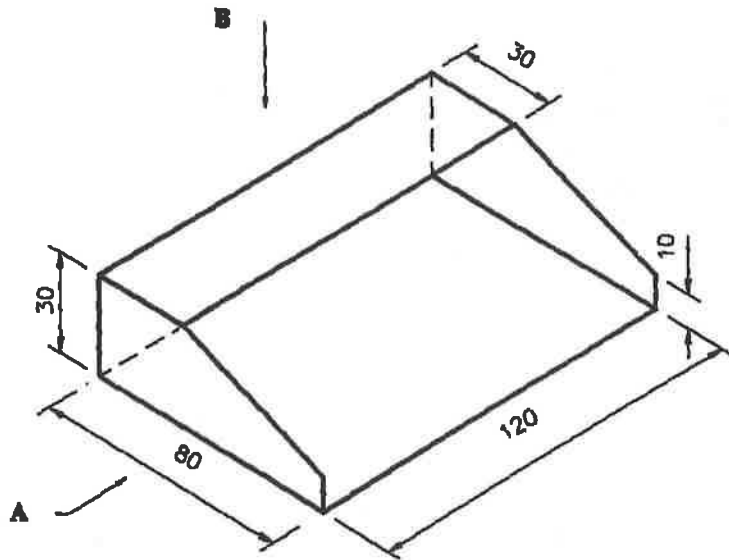
Insert any FOUR dimensions.

2



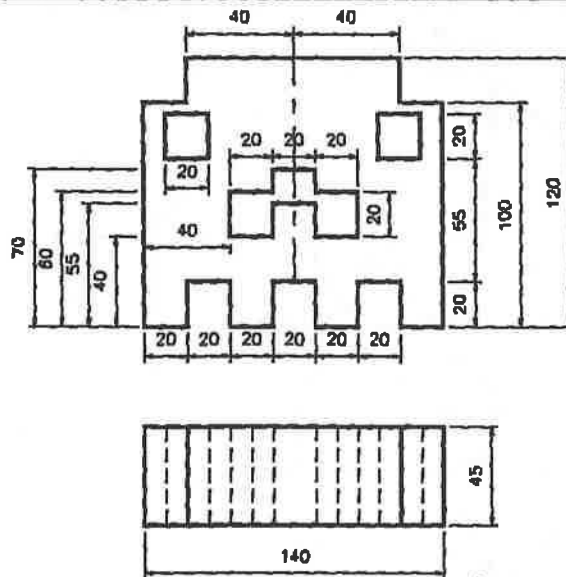
A design for an ORNAMENT based on a semi-ellipse is shown. The Major Axis is 130mm and the Minor Axis 80mm. Draw full size the given design showing clearly how the centres for the 4 circles A,B,C and D are obtained.

3



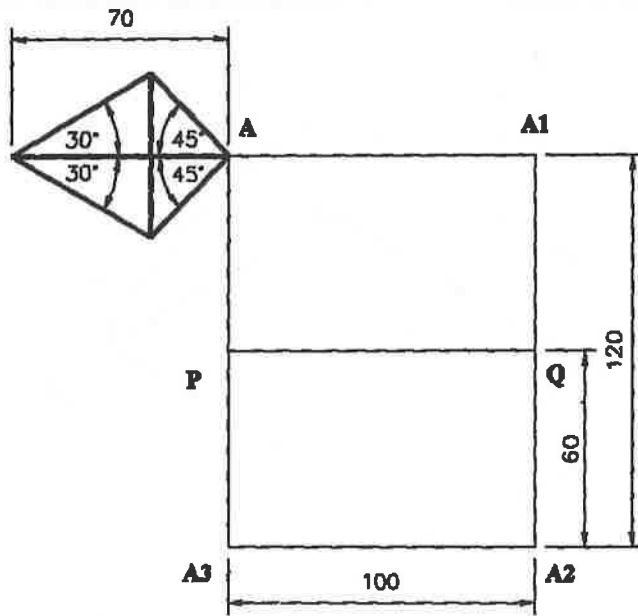
The figure shows the outline of a SCOOP.
 Draw **FULL SIZE** the following views :-
 (a) A front elevation looking in the direction of arrow A.
 (b) A plan looking in the direction of arrow B.
 (c) The **DEVELOPMENT** of the Scoop.

4



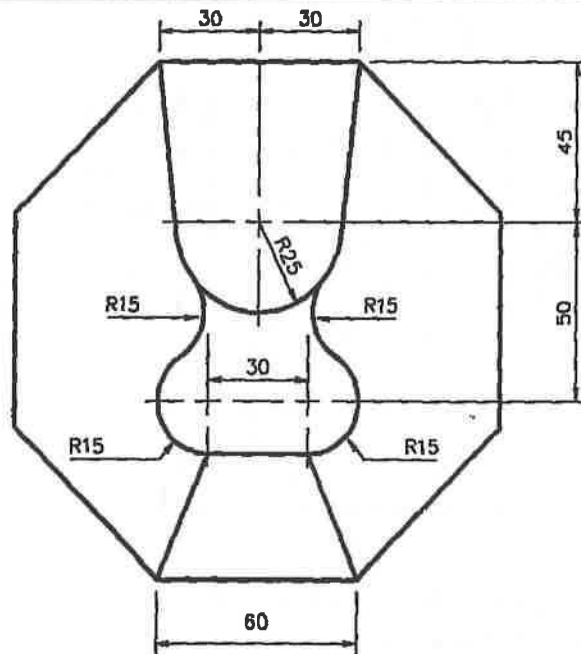
The figure shows a **COMPUTER GAME CHARACTER**.
 Draw **FULL SIZE ONE** of the following views :-
 (a) An **ISOMETRIC VIEW**
OR
 (b) An **OBLIQUE VIEW**.
The solution must be presented on standard drawing paper.

5



Draw the given figure and complete the rectangle 100 mm x 120mm as shown.
 Find the image of the given figure under the following transformations :-
 (a) From point A to A1 by a **TRANSLATION**,
 (b) From point A1 to A2 by an **AXIAL SYMMETRY** in the line PQ,
 (c) and a **CENTRAL SYMMETRY** in the point A3.

6



A design for a **GLASS ORNAMENT**, based on a regular Octagon, is shown.
 Reproduce the given figure, showing clearly all constructions and points of contact.