AN ROINN OIDEACHAIS

B

JUNIOR CERTIFICATE EXAMINATION, 1997

TECHNICAL GRAPHICS — ORDINARY LEVEL

THURSDAY 19 JUNE — AFTERNOON, 2.00 — 4.30

SECTION B — 280 MARKS

INSTRUCTIONS FOR SECTION B

(a) Any four questions to be answered.

(b) All questions carry equal marks.

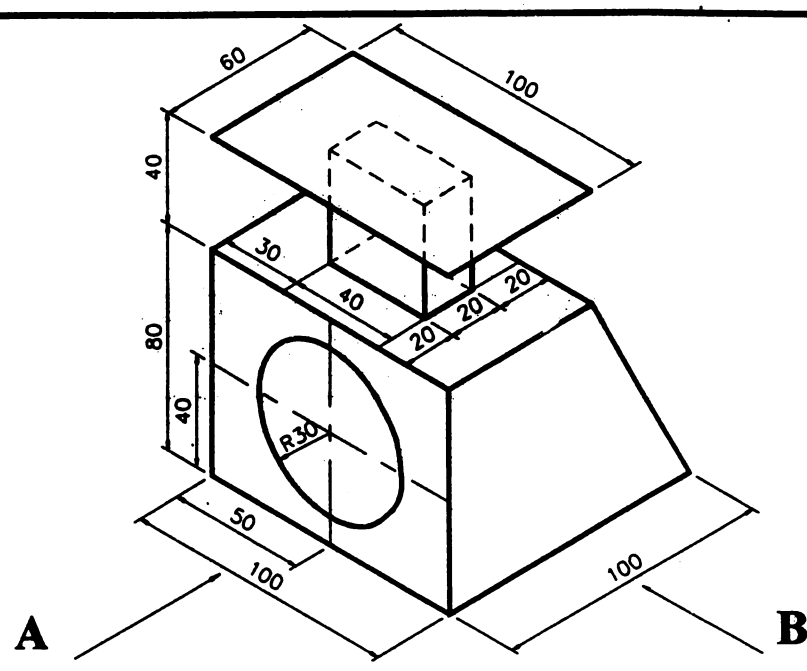
(c) The number of the question must be distinctly marked by the side of each question.

(d) Work on one side of the paper only.

(e) Examination number must be distinctly marked on each sheet of paper used.

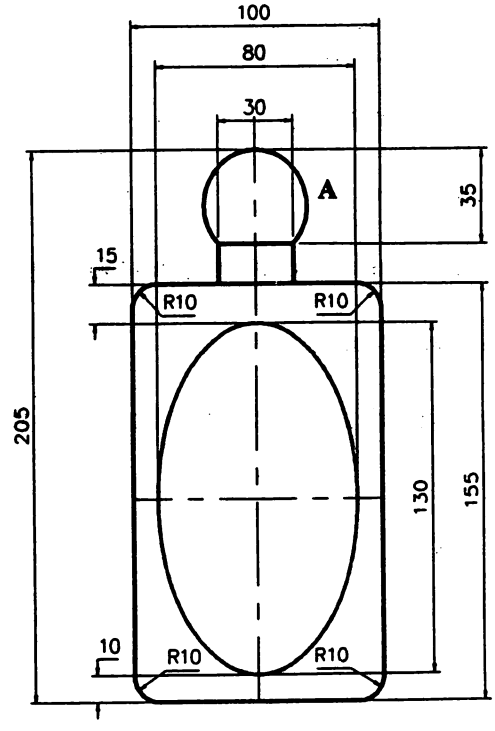
SECTION B (ANSWER ANY FOUR QUESTIONS- ALL QUESTIONS CARRY EQUAL MARKS)

1



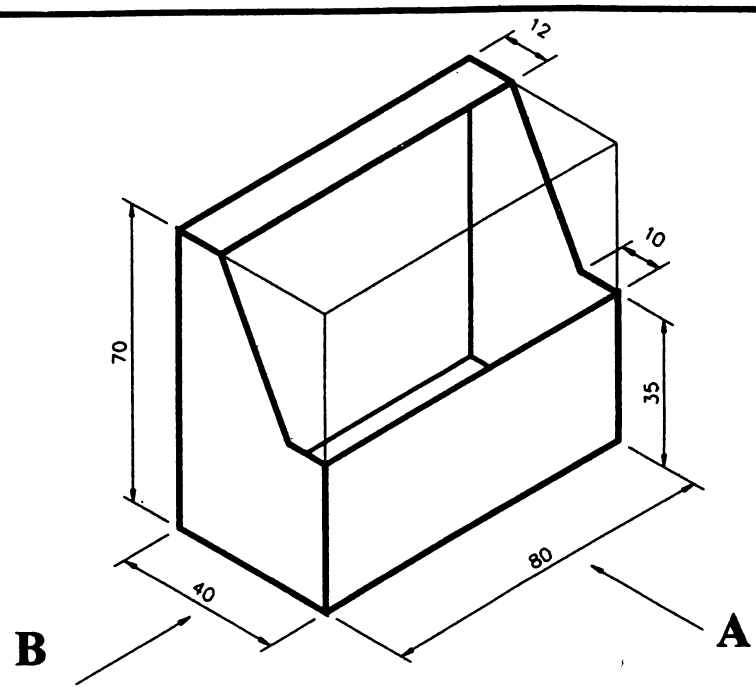
The figure shows the outline of a **KITCHEN SCALES**. Draw **FULL SIZE** :-
(a) A front elevation looking in the direction of arrow **A**.
(b) An end elevation looking in the direction of arrow **B.**
(c) A plan projected from the front elevation.
Insert any **FOUR** dimensions.

2



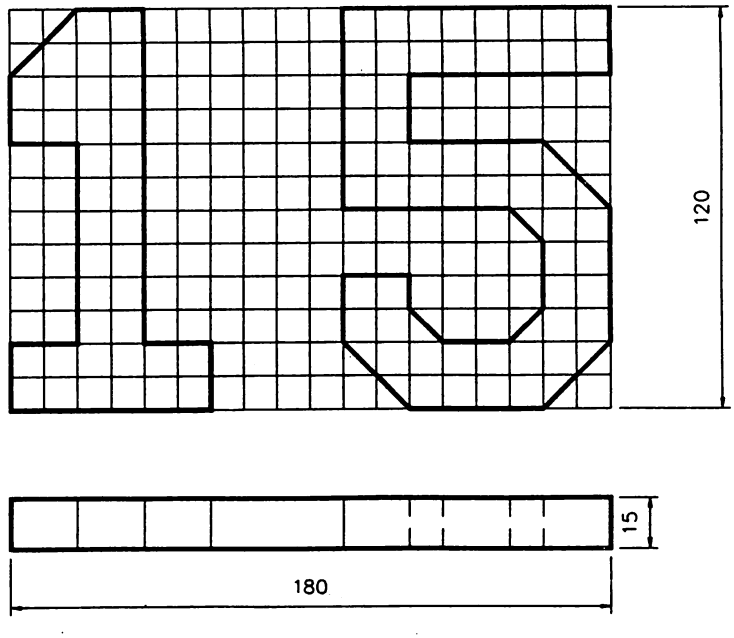
The figure shows the design for a **PERFUME BOTTLE**, with a label, in the shape of an **ELLIPSE**. Draw **FULL SIZE** the given design showing clearly how the centre for the arc A is obtained.

3



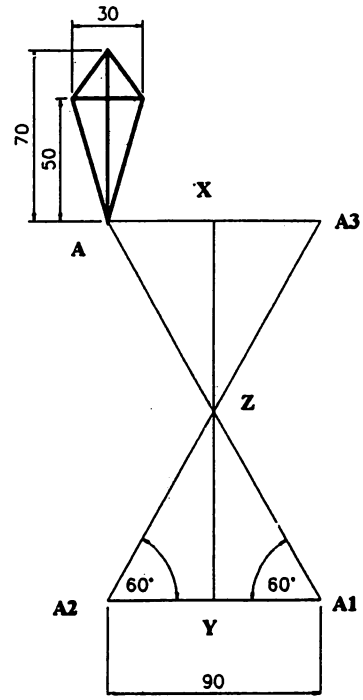
The figure shows the outline of a **DISPLAY BOX**, with the front open as shown.
Draw **FULL SIZE** the following views :-
(a) A front elevation looking in the direction of arrow A.
(b) An end elevation looking in the direction of arrow B.
(c) The **DEVELOPMENT** of the display box.

4



The figure shows a number **15 Football Jersey**. Each square in the graph is 10mm x10mm. Draw FULL SIZE **ONE** of the following views :-
(a) An **ISOMETRIC VIEW** of the number.
OR
(b) An **OBLIQUE VIEW**.

5



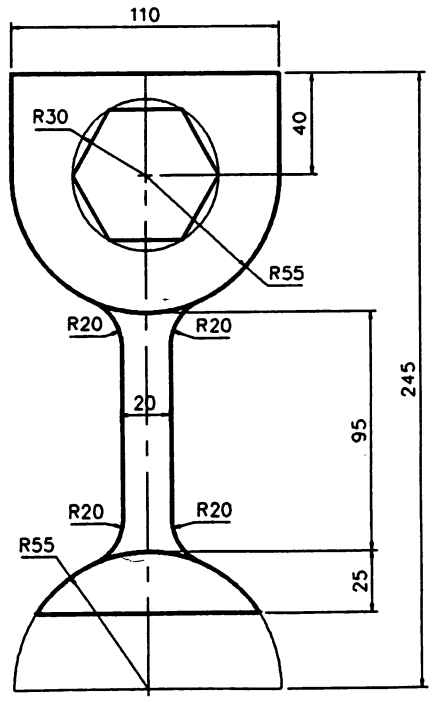
Draw the given figure. Locate the points A, A1, A2, A3, Z, the line XY and, then, find the image of the given figure under the following transformations :-

(a) From point A to A1 by a **TRANSLATION,**

(b) From point A1 to A2 by an **AXIAL SYMMETRY** in the line XY,

(c) From point A2 to A3 by a **CENTRAL SYMMETRY** in the point Z.

6



A design for a **TROPHY** is shown. Reproduce the given figure, showing clearly all constructions and points of contact.