AN ROINN OIDEACHAIS

B

JUNIOR CERTIFICATE EXAMINATION, 1996

TECHNICAL GRAPHICS — ORDINARY LEVEL

THURSDAY, 13 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.

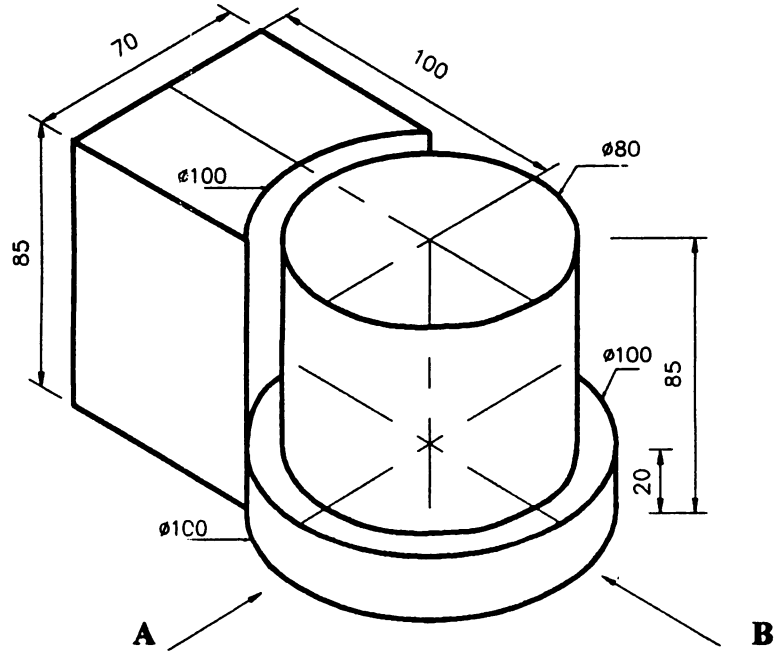
(c) The number of the question must be distinctly marked by the side of each question.

(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 **FOOD MIXER**. Draw FULL SIZE :-

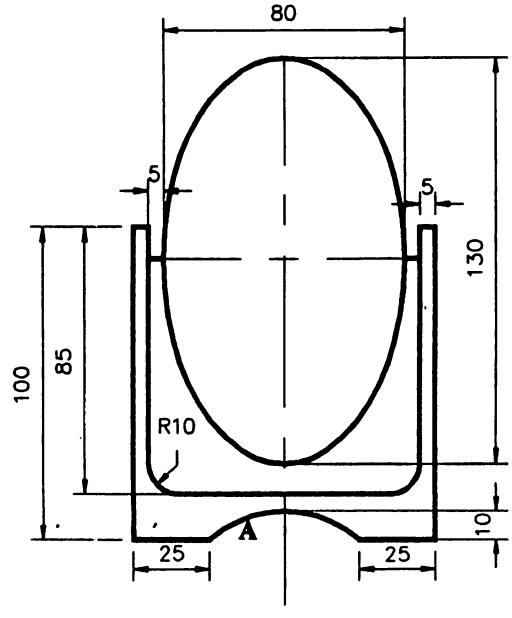
(a) A front elevation looking in the direction of arrow A.

(b) An end elevation looking in the direction of arrow B.

(c) A plan projected from the front elevation.

Insert any four dimensions.

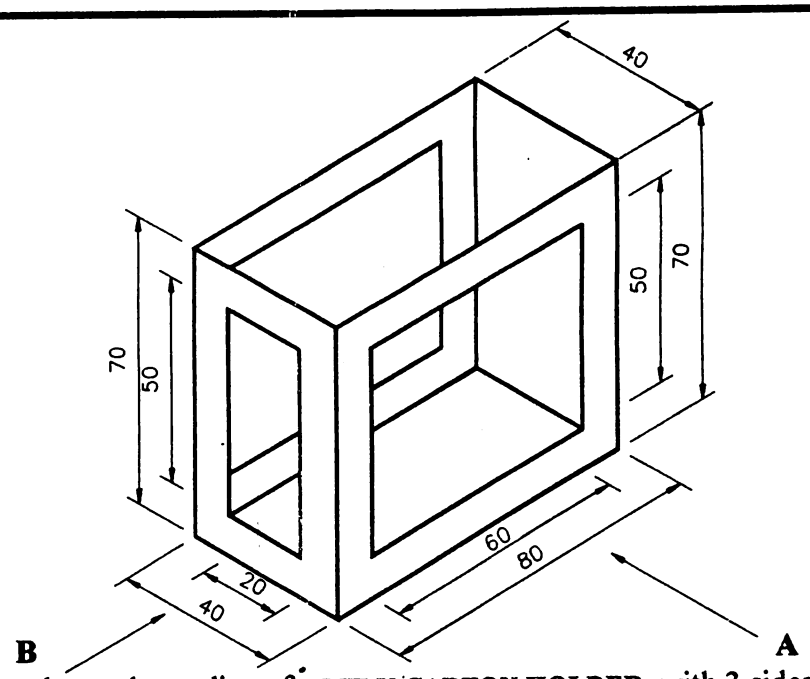
2



A design for a **BEDROOM MIRROR** based on an ELLIPSE is shown.

Draw FULL SIZE the given design showing clearly how the centre for arc A is obtained.

3



The figure shows the outline of a **MILK CARTON HOLDER**, with 3 sides open as shown.

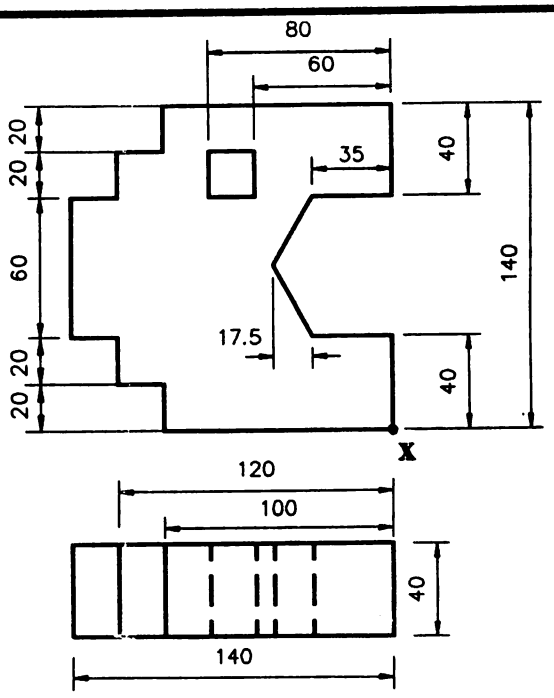
Draw FULL SIZE the following views :-

(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 carton.

4



The elevation and plan of a design for a **COMPUTER GAME CHARACTER** is shown.

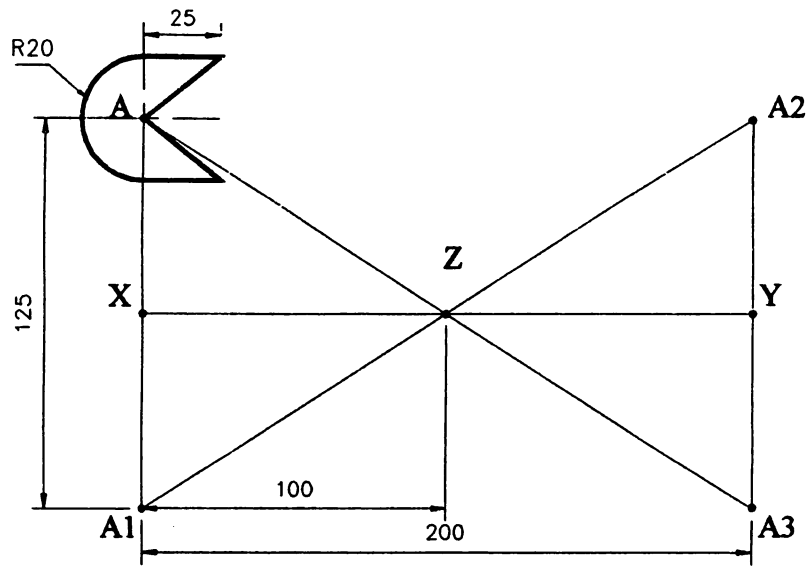
Draw FULL SIZE **ONE** of the following views :-

(a) An **ISOMETRIC VIEW** with the point X being the lowest point on the drawing.

OR

(b) An **OBLIQUE VIEW**.

5



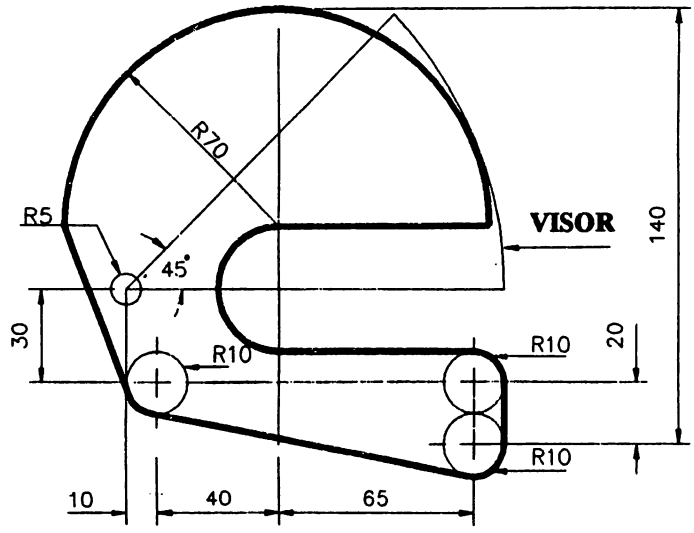
Draw the given figure. Locate the points A1, A2, A3, Z, the line XY and, then, find the image of the given figure under the following Transformations :-

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

(b) From point A1 to A2 by a **CENTRAL SYMMETRY** in the point Z,

(c) From point A2 to A3 by an **AXIAL SYMMETRY** in the line XY.

6



A design for a **MOTOR RACING HELMET**, with a **VISOR** in the open position, is shown

(a) Reproduce the given figure, showing clearly all constructions and points of contact.

(b) Draw the **VISOR** in the closed position.