



Coimisiún na Scrúduithe Stáit
State Examinations Commission

S 60 B

JUNIOR CERTIFICATE EXAMINATION, 2003

B

TECHNICAL GRAPHICS — ORDINARY LEVEL

THURSDAY 12 JUNE-MORNING, 9.30 — 12.00

SECTION B — 280 MARKS

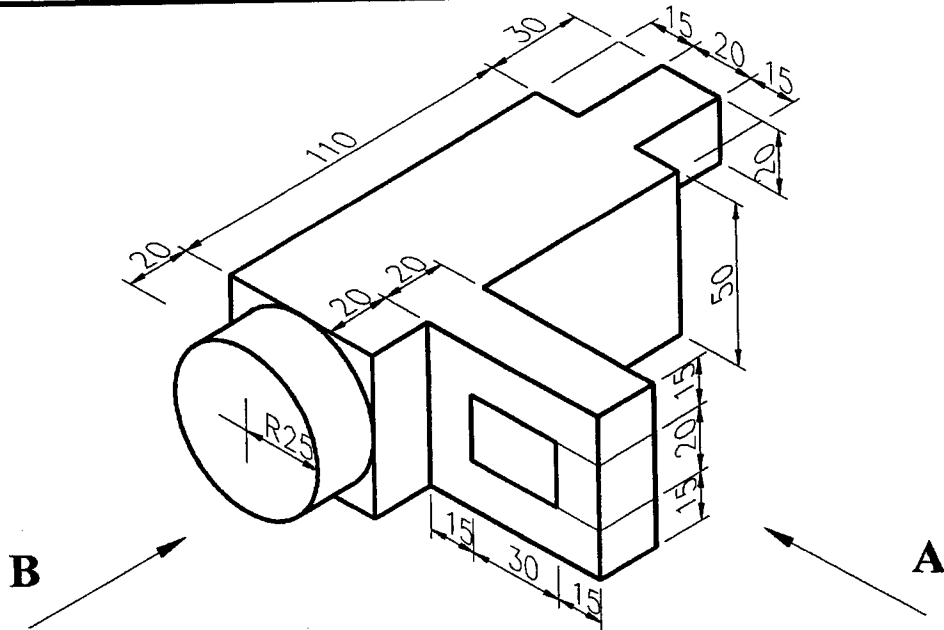
INSTRUCTIONS FOR SECTION B

- (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



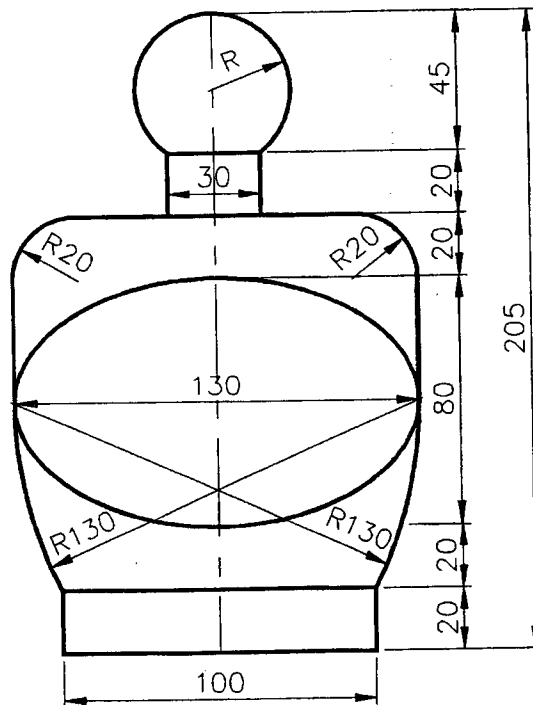
The figure shows the outline of a **camcorder**.

Draw :-

- (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.

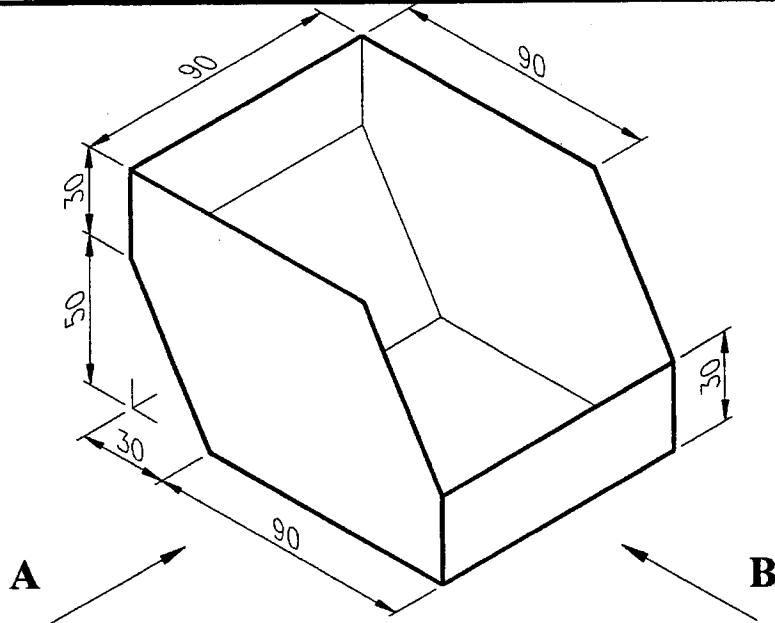
Insert any **FOUR** dimensions.

2



The figure shows the design of a **perfume bottle**. It has a label, in the shape of an ellipse, attached. The Major Axis is 130mm and the Minor Axis 80mm. Draw the given design showing clearly all construction lines.

3

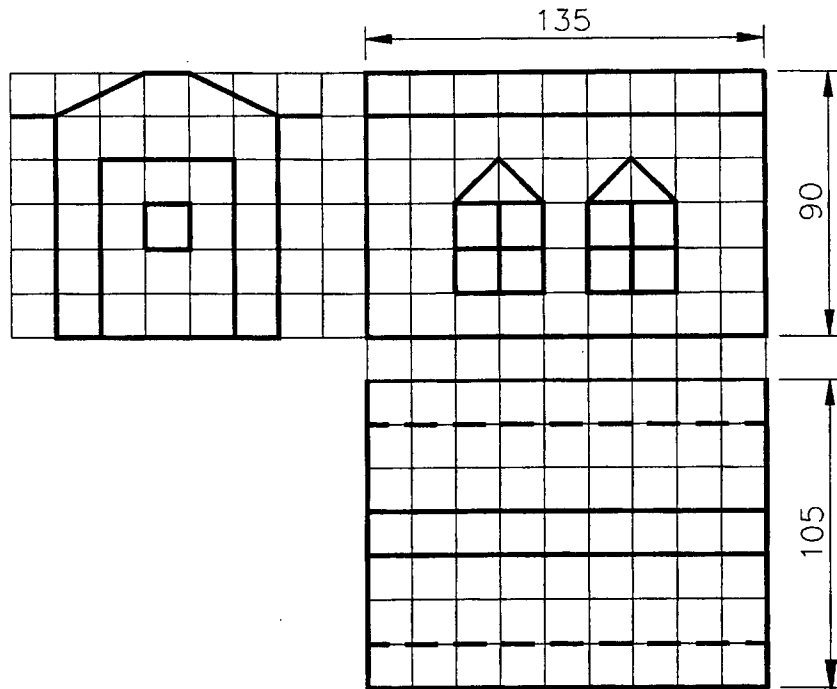


The figure shows the outline of a storage box.

Draw 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 complete **surface development** of the storage box.

4



The elevation, plan and end view of a garden shed are shown. The grid is made up of 15mm squares.

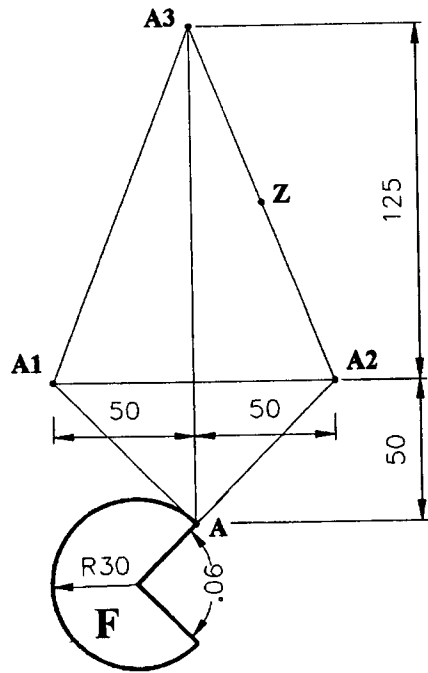
Draw one of the following views :

- (a) An **isometric** view **or** (b) An **oblique** view of the garden shed

The solution must be presented on standard drawing paper.

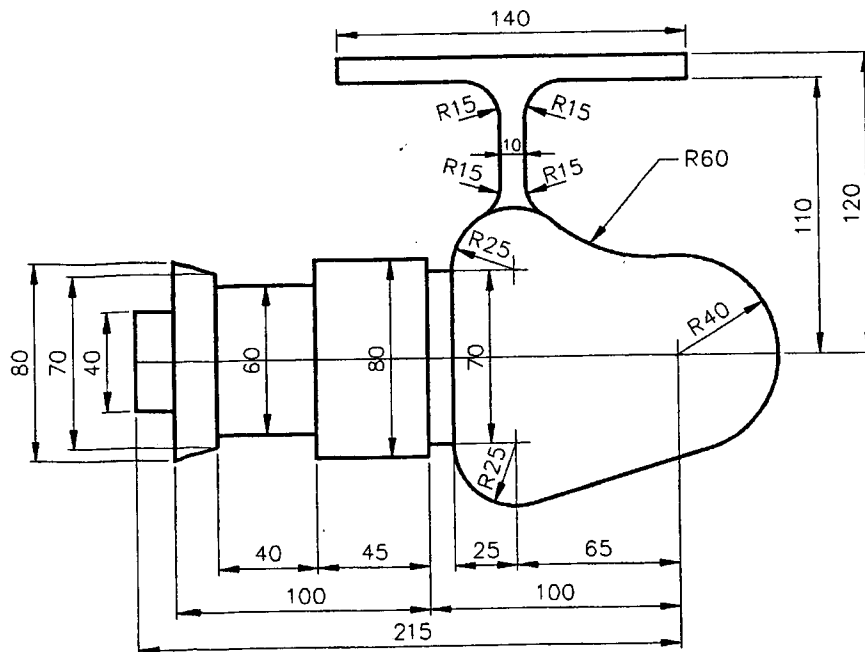


5



Draw the given figure F. Then locate the points A1, A2, A3 and Z.
 Find the image of the given figure F 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 A — A3,
 (c) From point A2 to A3 by a **central symmetry** in the point Z.

6



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