AN ROINN OIDEACHAIS

A   JUNIOR CERTIFICATE EXAMINATION, 1995

TECHNICAL GRAPHICS — ORDINARY LEVEL

THURSDAY, 15 JUNE - AFTERNOON, 2.00 - 4.30

TOTAL MARKS 400 (Sections A and B)

EXAMINATION NUMBER ☞	

CENTRE STAMP ☞	

INSTRUCTIONS

(a) Answer any twelve of the short-answer questions in Section A (120 marks) using the spaces provided.
All questions in Section A carry equal marks.

(b) Answer any four of the six questions in Section B (280 marks).
All questions in Section B carry equal marks.

(c) Examination Number must be distinctly marked in the space provided above and on each sheet of paper used.

(d) All construction lines must be clearly shown.

(e) All measurements are in millimetres.

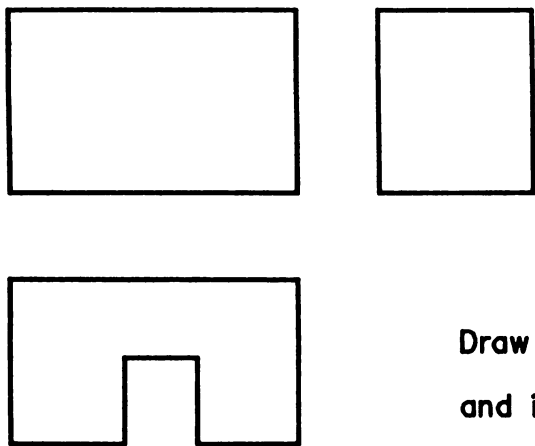(f) Hand up this Answerbook (Section A) at the end of the examination.

For Examiner's use only	
QUESTION	MARK
Section A (Total)	
Section B Q1	
Q2	
Q3	
Q4	
Q5	
Q6	
TOTAL �III➡	
GRADE III➡	

WARNING

THIS ANSWERBOOK MUST BE HANDED UP AT THE END OF THE EXAMINATION.

1

Draw the missing lines in the elevation and in the end elevation.
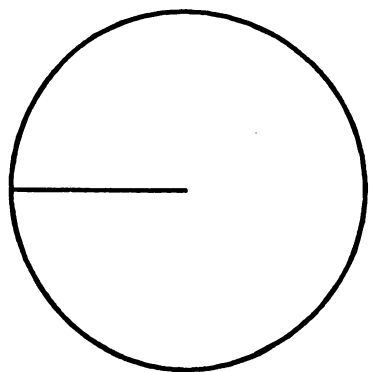
2 Explain each of the following computer terms : –
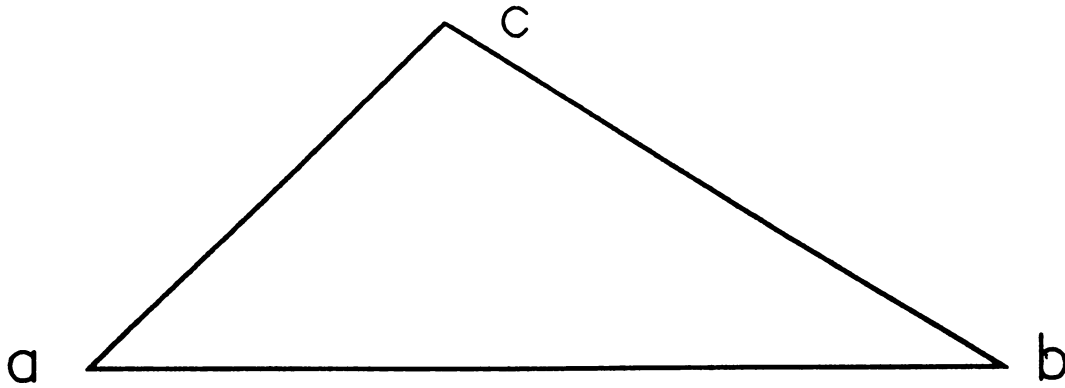
(a) Floppy Disk _____
_____

(b) Mouse _____
_____

3 Represent the following data in the pie–chart provided.

In an examination : –

25% obtained an Honour

50% a pass

25% failed.

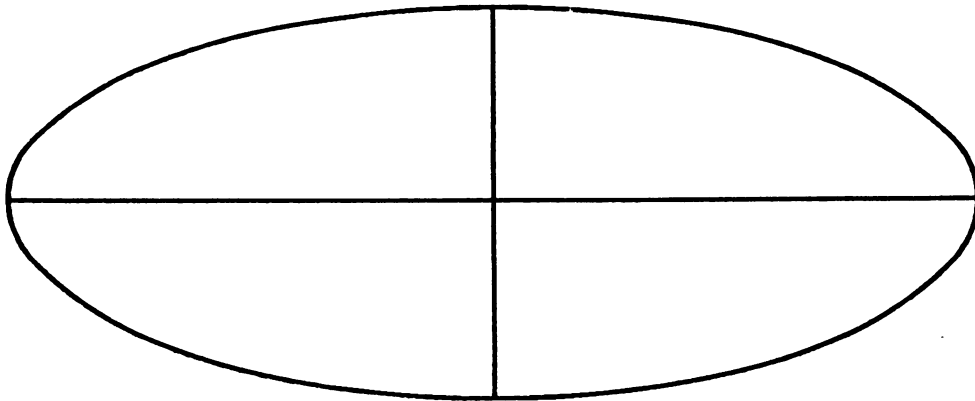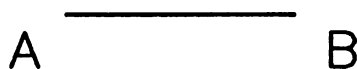**4** Convert the AREA of the given triangle abc, to a rectangle of equal area.

c

a   b

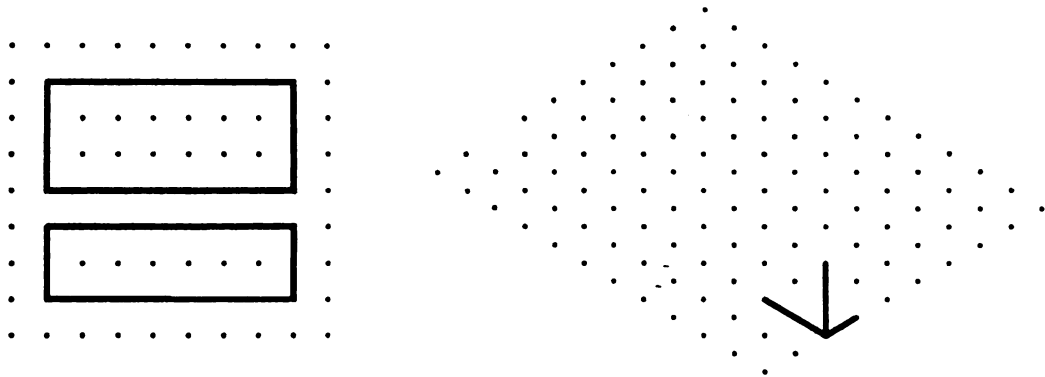**5**   Find the focal points in the given Ellipse.

6   AB is the side of a Regular Pentagon. Draw the Pentagon.

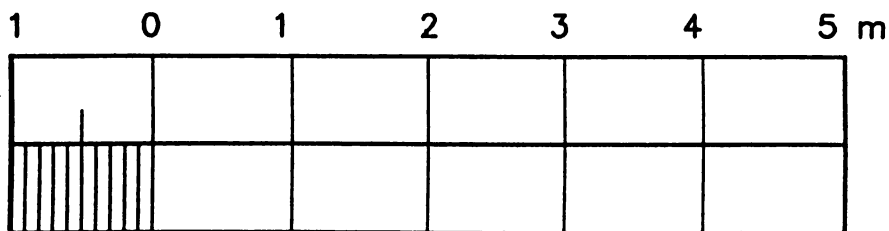_____
A   B

7 Shown is the elevation and plan of a rectangular prism. Complete the isometric view of this prism in the grid provided.

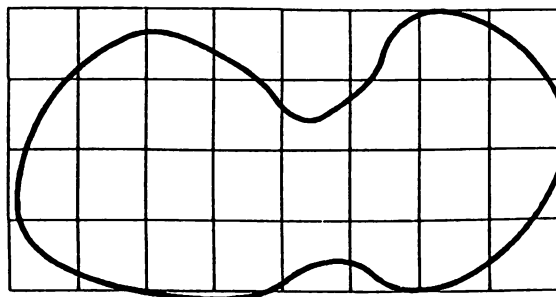**8** In the scale provided, show the following length:—

(2.70m)

| 1 | 0 | 1 | 2 | 3 | 4 | 5 m |

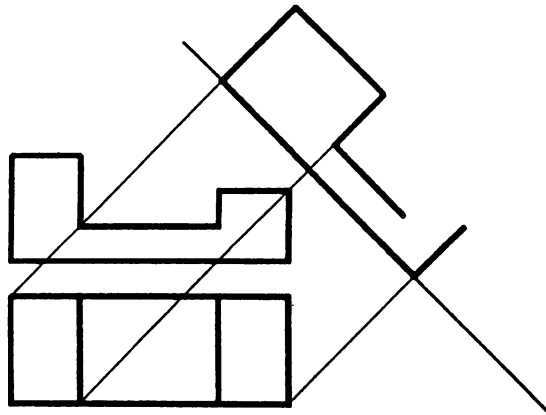**9** Determine approximately the area of the irregular figure in square units.

1 Square

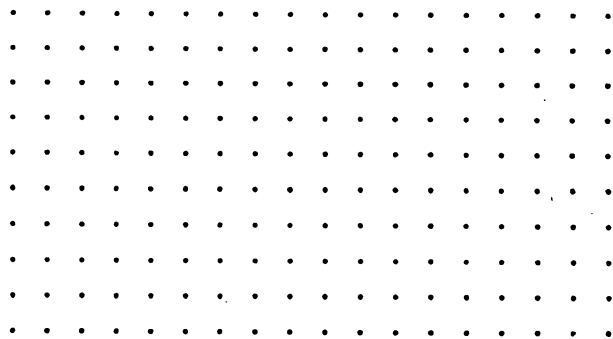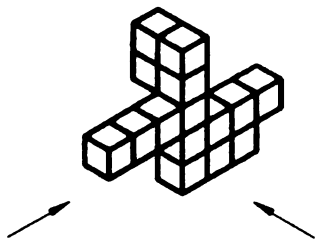= 1x1 Unit.

ANS. :— _____

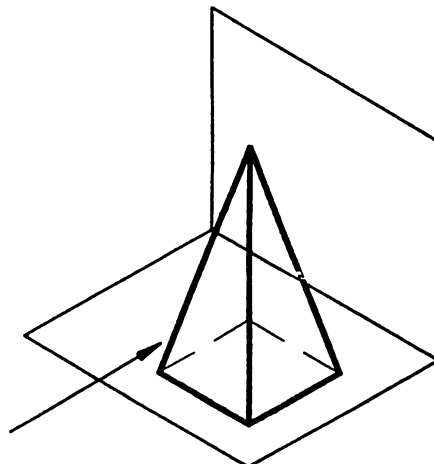**10** Complete the auxiliary elevation, showing all hidden lines.

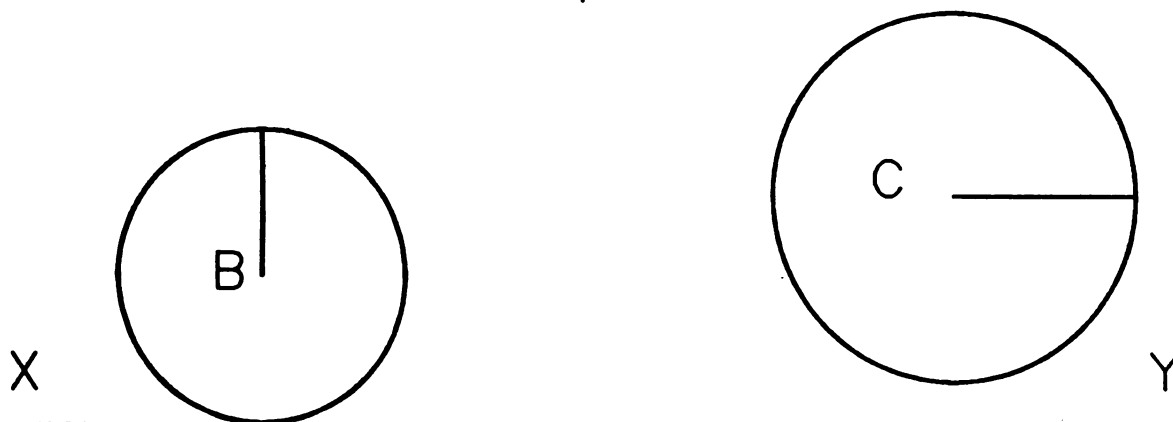**11** Using the grid provided, sketch the views in the direction of the arrows.
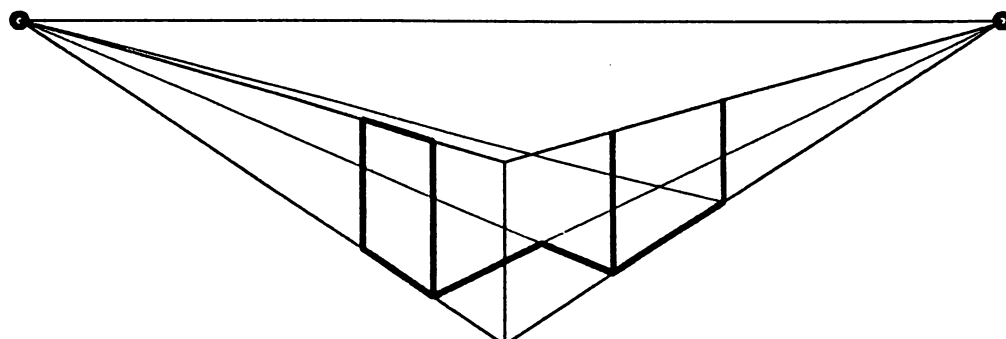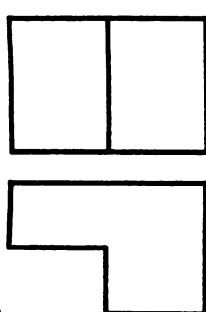
12 Sketch the SHADOW cast by the pyramid when the light is as shown.

13 Draw sphere C in contact with sphere B and the Horizontal Plane, xy. Show all construction lines and points of contact.

B

C

X

Y

14 The figure shows the unfinished two-point perspective of a box. Complete the view.

15 Rotate the given pyramid onto the Horizontal Plane xy about O. Project a new plan of the rotated pyramid.

X   O   Y