


**A****JUNIOR CERTIFICATE EXAMINATION, 1996****TECHNICAL GRAPHICS — ORDINARY LEVEL****THURSDAY 13 JUNE — AFTERNOON, 2.00—4.30****TOTAL MARKS 400 (Sections A and B)**

<b>EXAMINATION NUMBER</b> 	
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<b>CENTRE STAMP</b> 	
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**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 answer book (Section A) at the end of the examination.

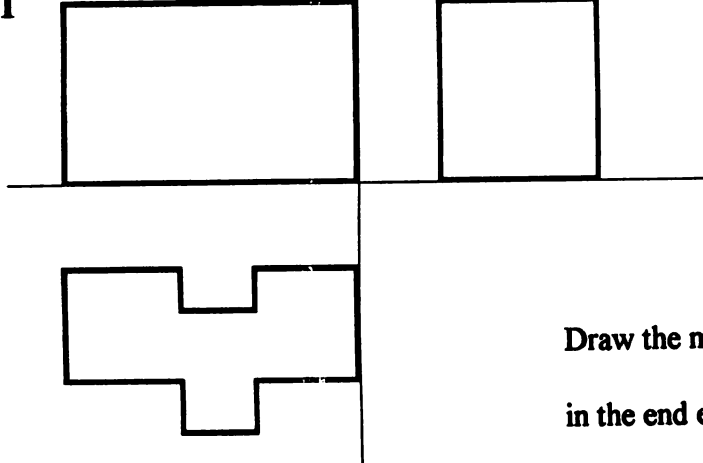
For Examiner's use only		
QUESTION	MARK	
Section A (Total)		
Section B Q1		
Q2		
Q3		
Q4		
Q5		
Q6		
TOTAL	➡	
GRADE	➡	

**WARNING**

**THIS ANSWERBOOK MUST BE HANDED UP  
AT THE END OF THE EXAMINATION  
OTHERWISE MARKS WILL BE LOST.**

**SECTION A** (ANSWER ANY TWELVE QUESTIONS - ALL QUESTIONS CARRY EQUAL MARKS)

1



Draw the missing lines in the elevation and in the end elevation.

2

Name TWO INPUT devices and TWO OUTPUT devices used in computers.

(a) INPUT devices (1) \_\_\_\_\_

(2) \_\_\_\_\_

(b) OUTPUT devices (1) \_\_\_\_\_

(2) \_\_\_\_\_

3

Underline the commands which are not found in CAD.

Draw

Array

Edit

Line

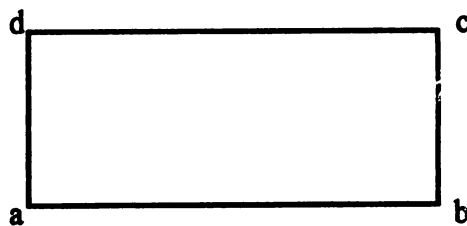
Display

Circle

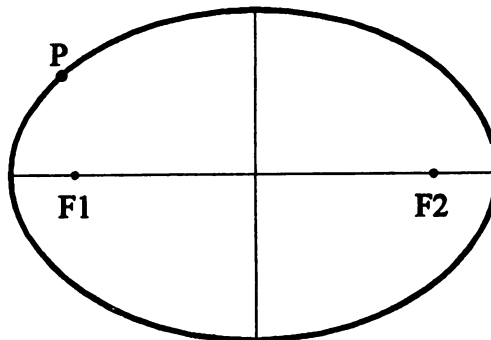
Cut

Paste

- 4 Convert the area of the given RECTANGLE to a TRIANGLE of equal area.



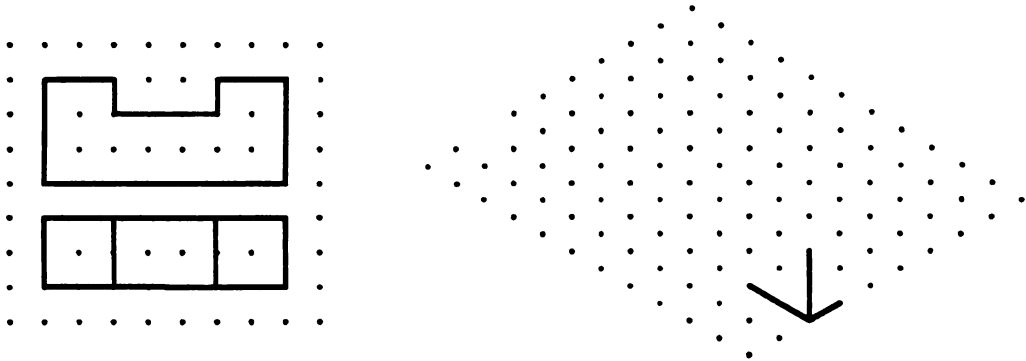
- 5 Draw a TANGENT to the given ELLIPSE at the point P.



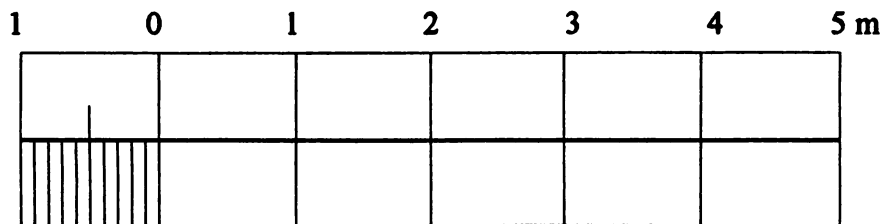
- 6 AB is the side of a regular OCTAGON. Draw the OCTAGON.

A ——— B

- 7 Shown is the elevation and plan of a solid. Complete the isometric view of the solid.



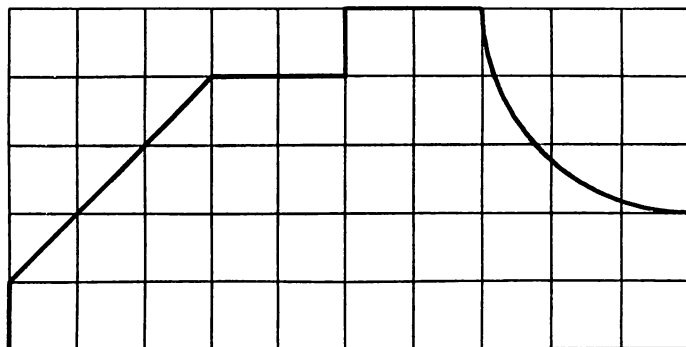
- 8 In the scale provided, show the following length :- 3.80m



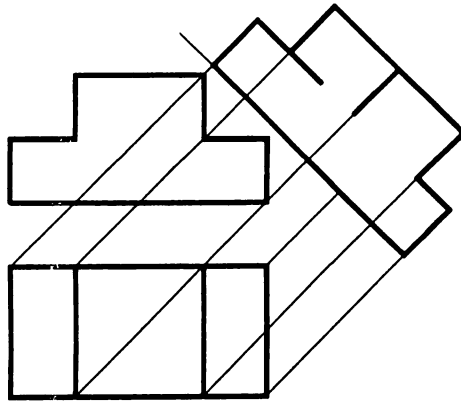
- 9 Determine approximately the area of the irregular figure in square units.

1 Square  
= 1 x 1 Unit.

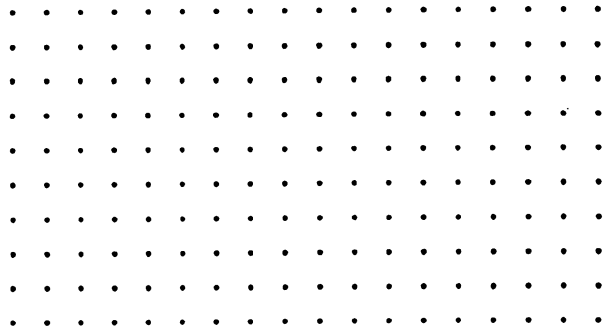
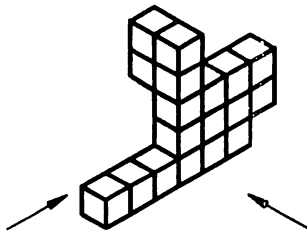
Ans :- \_\_\_\_\_



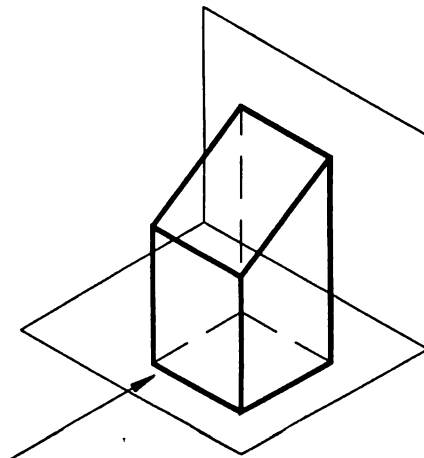
- 10** Complete the AUXILIARY elevation shown.



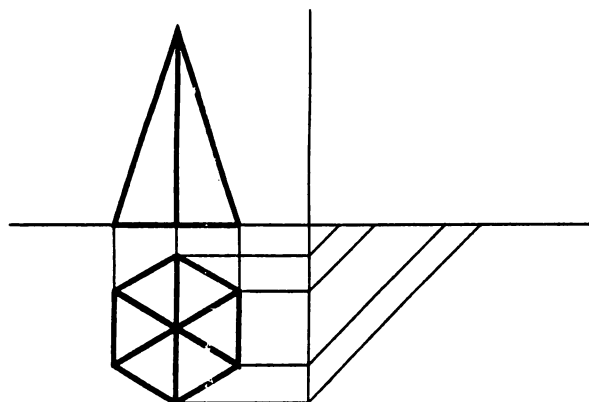
- 11** Using the grid provided, sketch the views in the direction of the arrows.



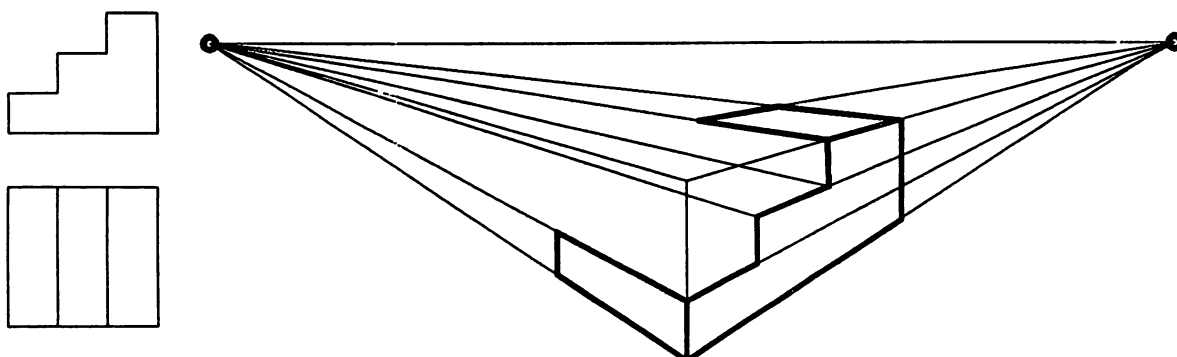
- 12** Sketch the SHADOW cast by the SOLID when the light source is as shown.



- 13** Shown is the elevation and plan of a regular HEXAGONAL PYRAMID.  
Draw the end elevation.



- 14** The figure shows the TWO POINT perspective of a set of steps.  
Complete the view.



- 15** Rotate the figure clockwise through  $120^\circ$ , about O.

