

FORM 2 **GRAPHICAL COMMUNICATION** **TIME: 2hours**

Name: _____

Class: _____

Instructions

- Write your name and class on all sheets.
- Attempt **ALL** questions.
- Answer all questions accurately, using instruments, unless otherwise stated.
- All construction lines **MUST** be left on each solution to show the method used.
- Drawing aids may be used.

Information

- All dimensions are in millimetres.
- Estimate any missing dimension.
- Marks will be awarded for accuracy, clarity and construction.

Question	1	2	3	4	5	Total
Max. mark	36	16	18	12	18	100
Mark						

1. The figure below shows a pictorial view of a 'CHILDRENS' SLIDE'.

Draw full size, in first angle orthographic projection:

- (a) a front elevation as seen from arrow 'A',
- (b) a complete plan.

14

13 marks

Show all hidden details.

Include the following in your drawing:

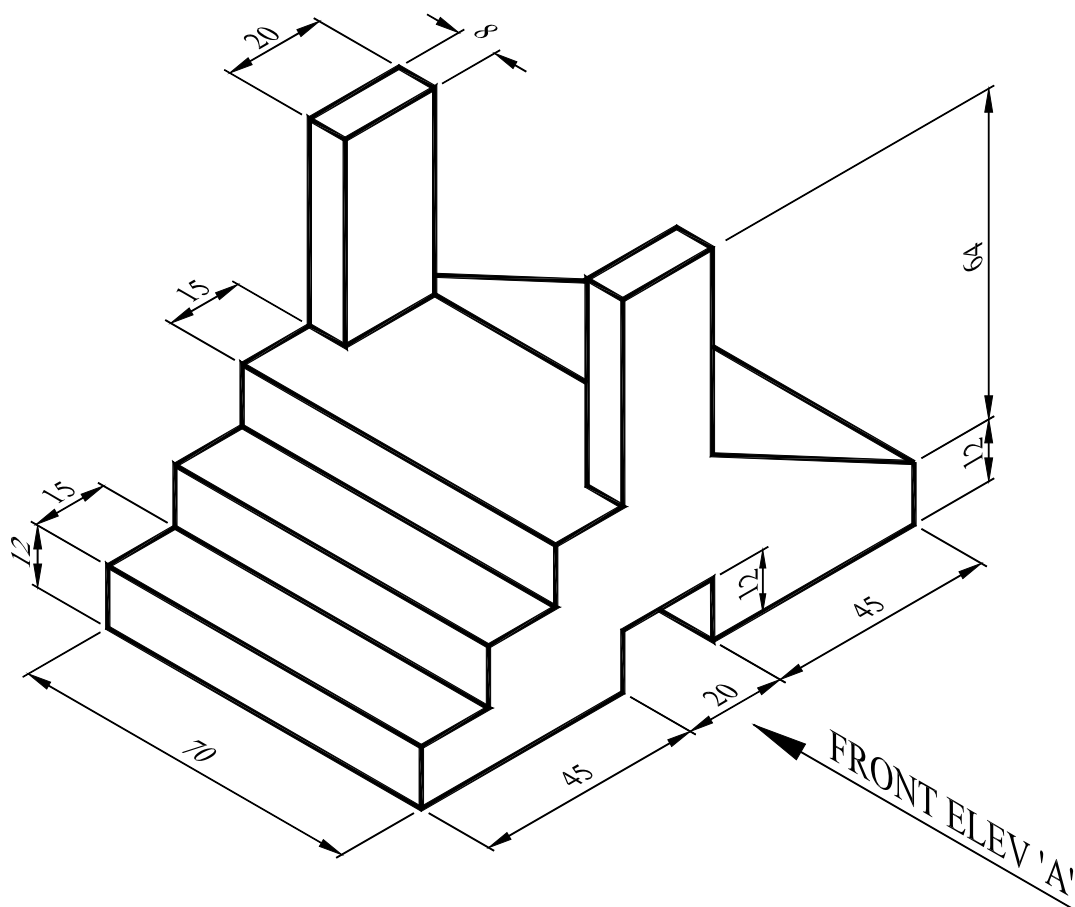
- (i) the symbol of projection used

2 marks

- (ii) in the Name Block provided, print in all the missing items:
Name, Date, Title, Scale, etc.

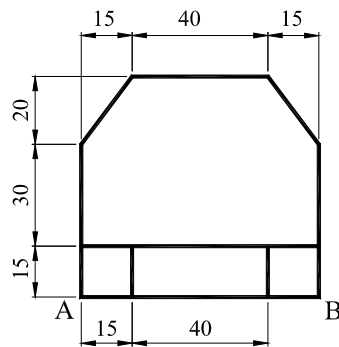
7 marks

Total 36 marks

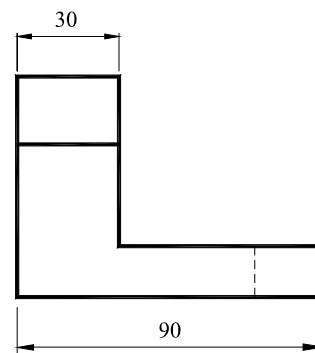


2. Three orthographic views in first angle orthographic projection and an isometric view of a bracket are shown below. Using the given start lines, draw full size, an **oblique projection** of the bracket, putting 'A B' in the foreground.

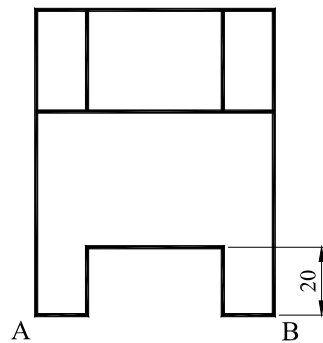
16 marks



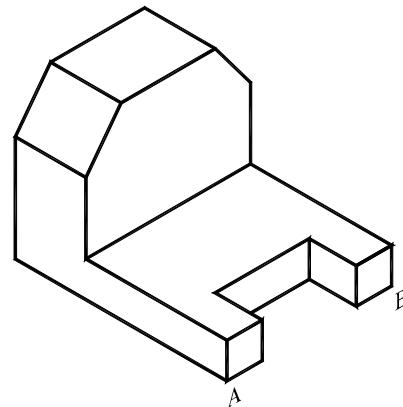
FRONT ELEVATION



END ELEVATION



PLAN



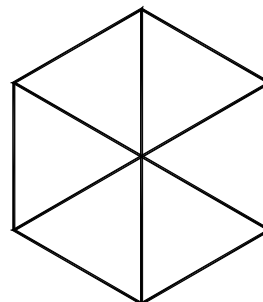
ISOMETRIC VIEW

3. The drawing shows an incomplete front elevation and a plan of a hexagonal pyramid. Draw full size:

- a complete front elevation,
- a one piece development of the whole pyramid. Do not include the base.

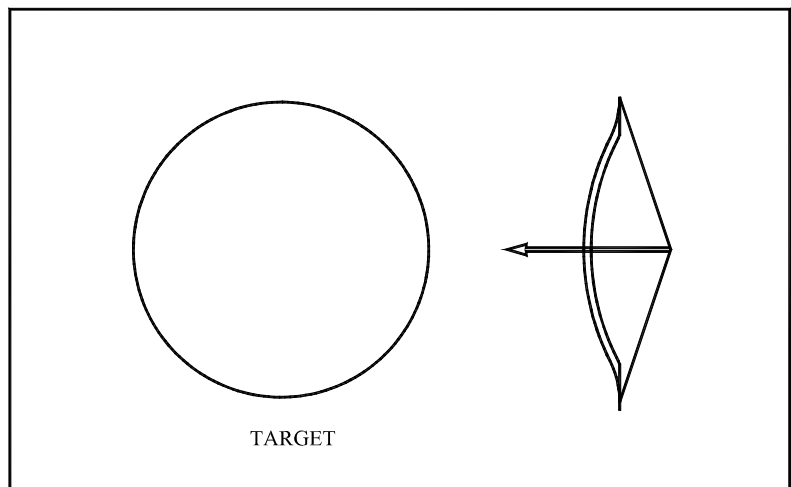
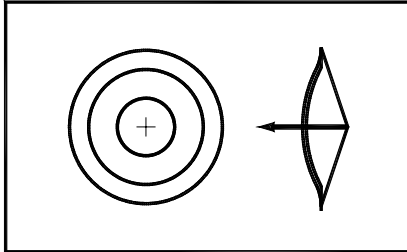
18 marks

VERTICAL HEIGHT OF
HEXAGONAL PYRAMID: 85



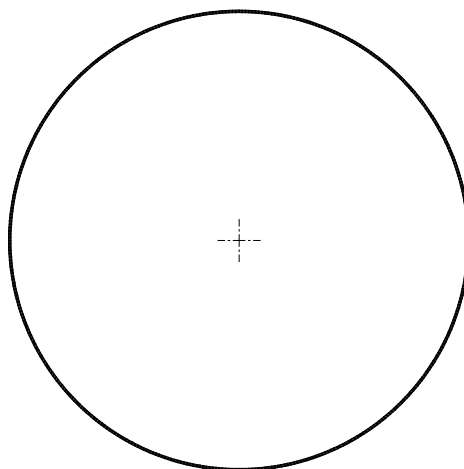
4. The drawing below on the left shows the logo of an archery club. Complete the unfinished logo given on the starter sheet by:
- finding the centre of the target using the necessary construction
 - drawing two concentric circles, having diameters of 30mm and 60mm respectively.

12 marks

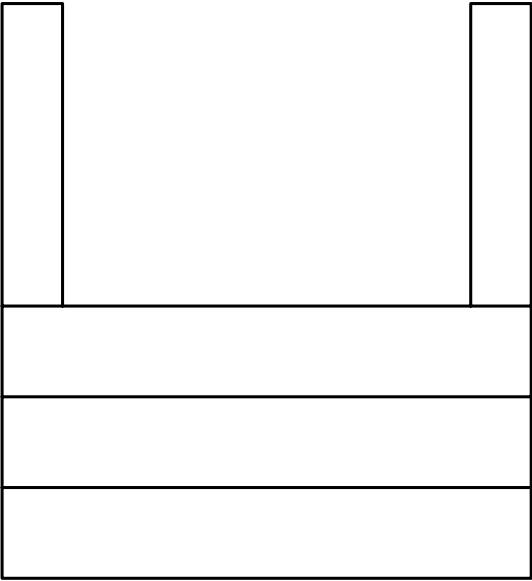
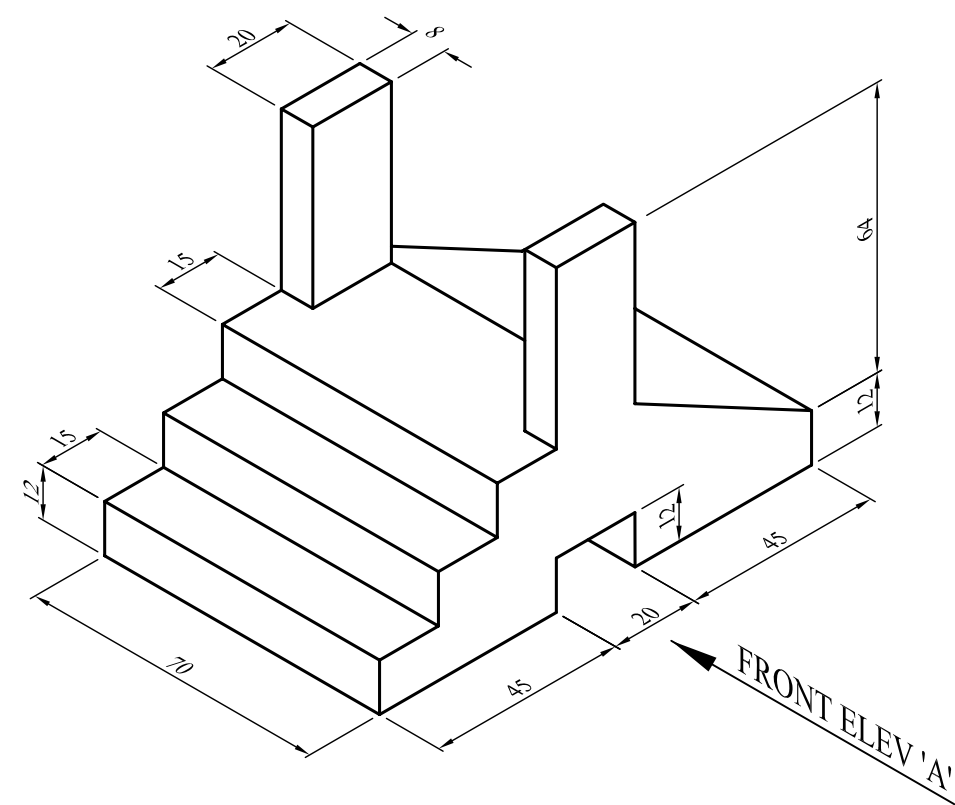


5. A seaside village has a small sandy beach. The local council has decided that fishing will not be permitted any more from the beach area and a prohibition sign shall be fixed nearby. Within the given circle on the starter sheet, draw a **Prohibition Sign** indicating that **fishing is not allowed** (no fishing). Colour your sign according to standard specifications.

18 marks



QUESTION No.1

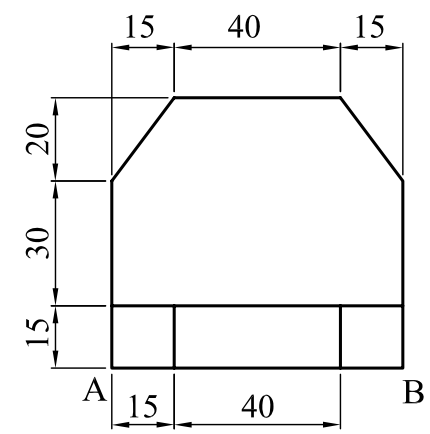


END ELEVATION

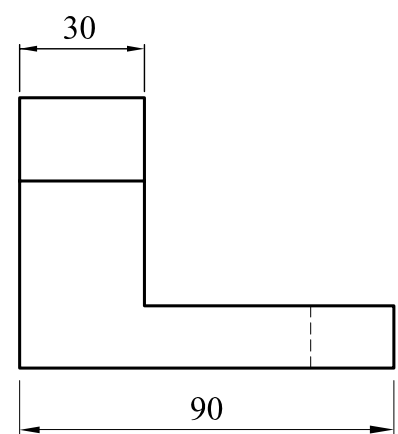
NOTE: THE GIVEN PICTORIAL VIEW
IS NOT DRAWN TO SCALE

PROJECTION SYMBOL: -----

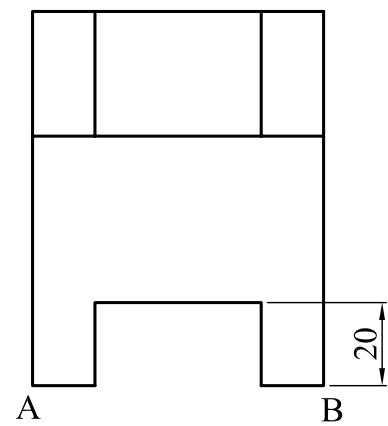
QUESTION No. 2



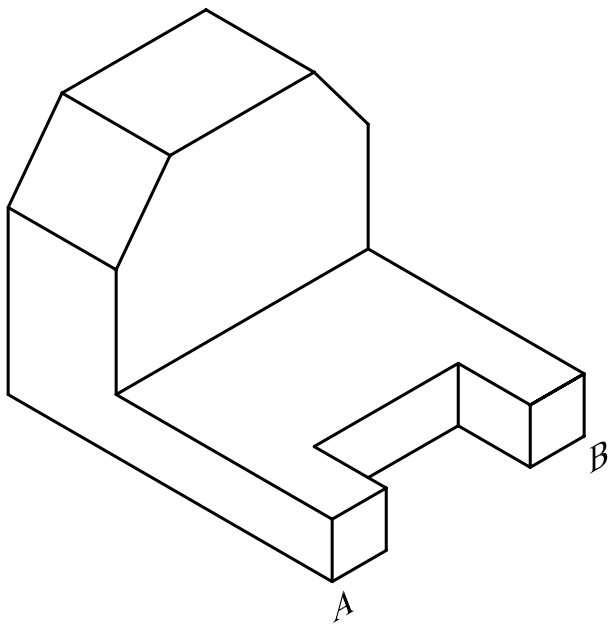
FRONT ELEVATION



END ELEVATION



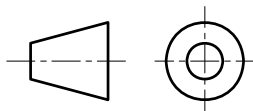
PLAN



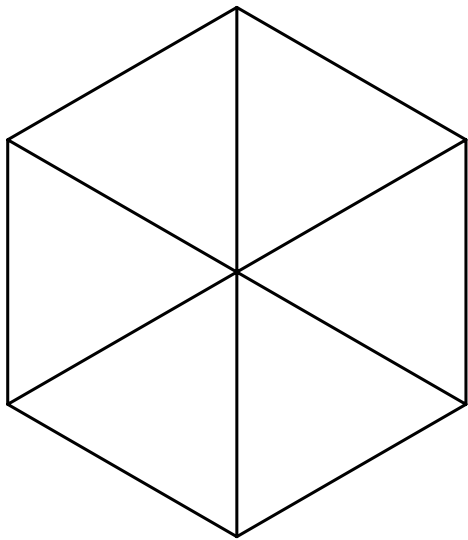
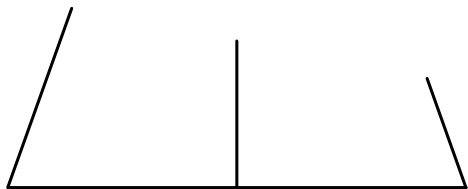
ISOMETRIC VIEW



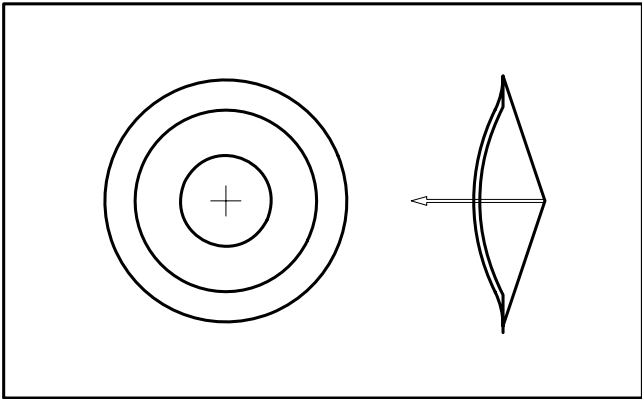
QUESTION No. 3



VERTICAL HEIGHT OF
HEXAGONAL PYRAMID: 85



QUESTION No. 4



QUESTION No. 5

