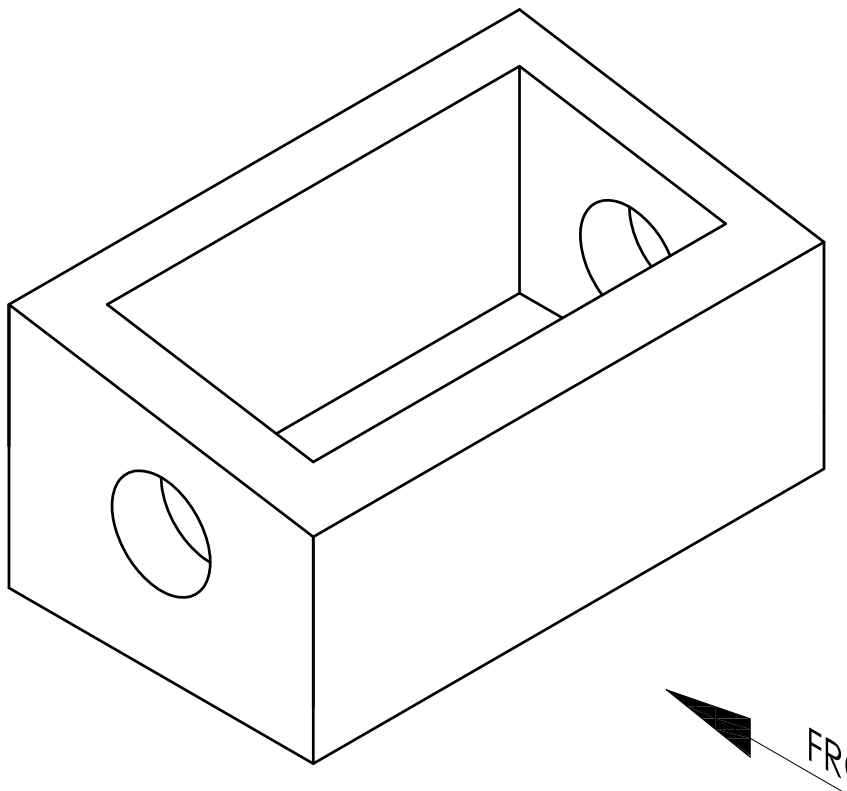
Question 1.

An isometric view of a **salt and pepper holder** is shown below.
Two orthographic views of the holder are given on the right.

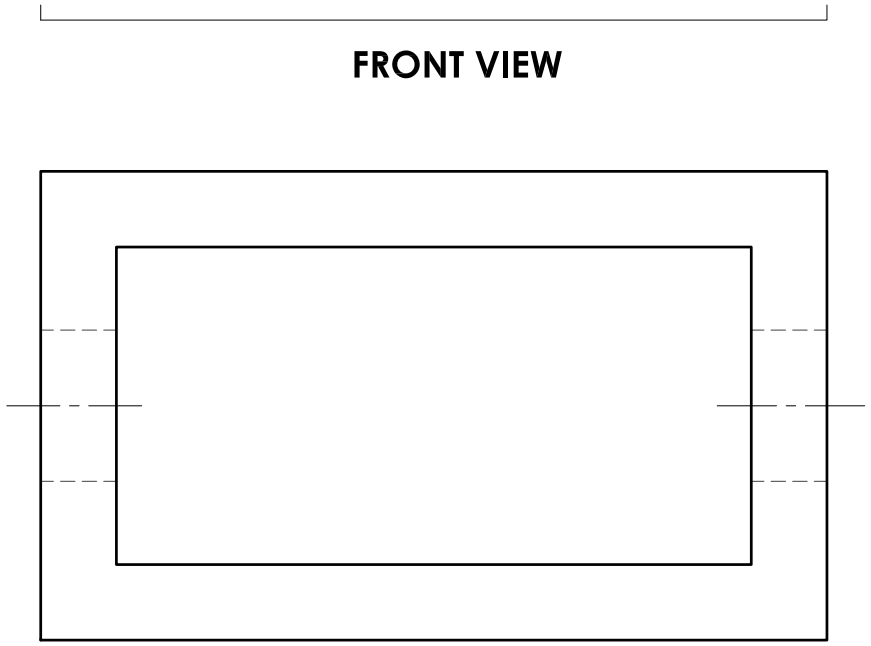
In the space provided:
i) Complete the **FRONT VIEW**.
ii) Write the **projection angle** (1st or 3rd angle).
iii) Draw the **projection symbol**.

Note: Include the hidden details.

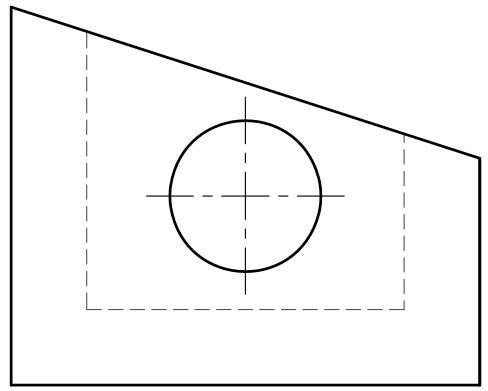
18 Marks



FRONT VIEW



PLAN



END VIEW

_____ ANGLE PROJECTION

PROJECTION SYMBOL

Sheet 1 of 4

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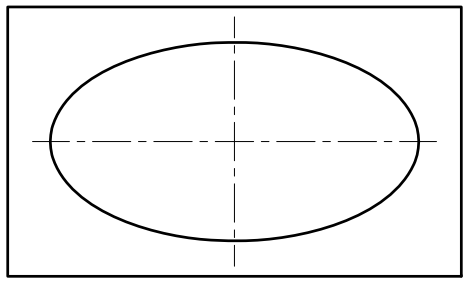
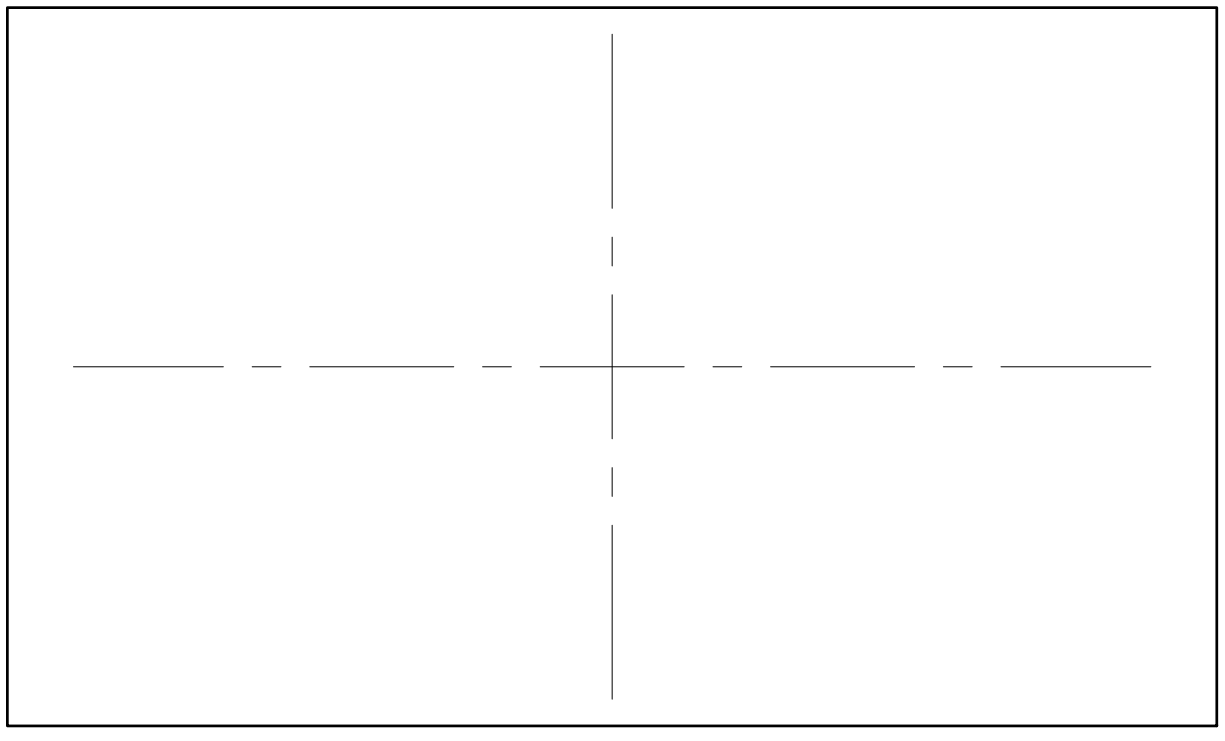
Question 2.

The drawing on the right shows a picture frame to be hung on a wall. On the start lines provided you are asked to **construct the ellipse**.

Major axis = 130 mm
Minor axis = 75 mm



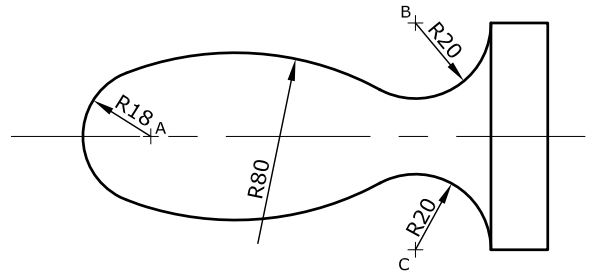
14 marks



Question 3.

A dimensioned profile of a handle is given.

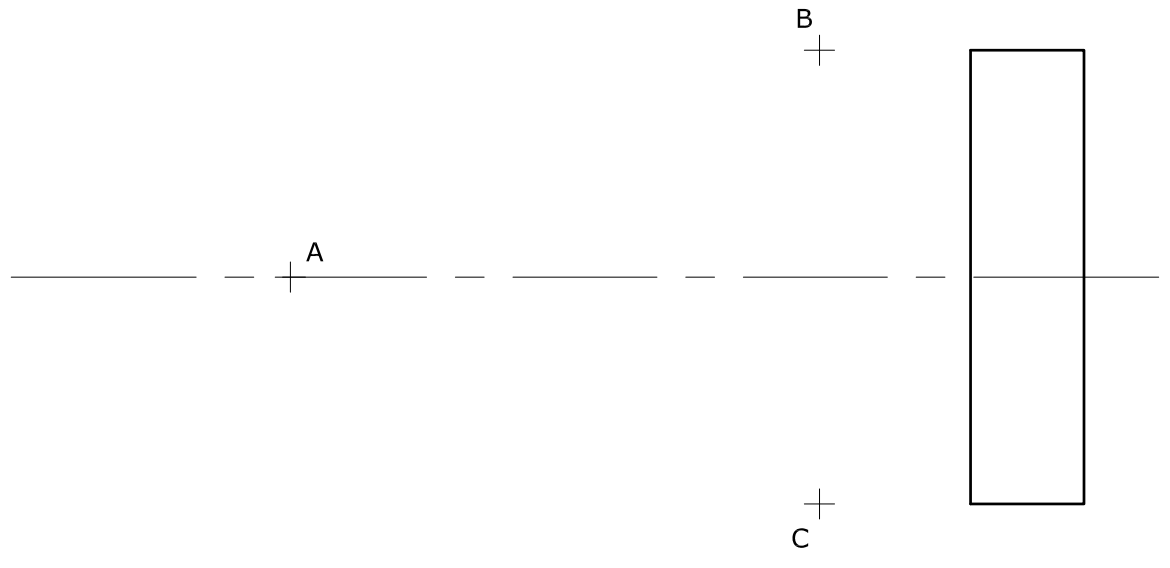
Using the given start lines, **complete the profile** showing clearly the constructions used to locate the centres and points of tangencies.



Notes:

- The handle is symmetrical.
- Points A,B and C are centres of arcs.
- Draw the R18 arc (from centre A).
- Draw the R20 arcs (from centre B and C).
- Locate the centre of and draw the first R80 arc.
- Locate the centre of and draw the second R80 arc.

16 marks



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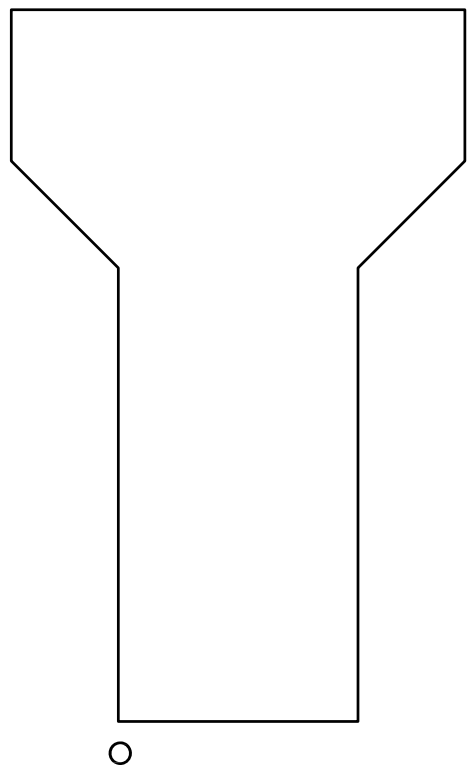
Question 4.

The figure below shows the profile of a torch. **By using the radial method, enlarge the profile** in the ratio of 3:2.

Note: Use 'o' as the pole.

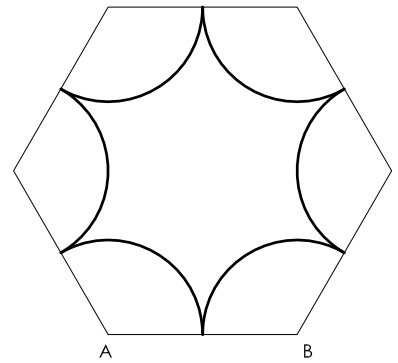
16 marks



Question 5.

The drawing on the right shows the elevation of a **decoration**.
On the given start lines complete the drawing by:

i) constructing the **hexagon** starting from base AB.
ii) completing the **pattern** as shown.



12 marks

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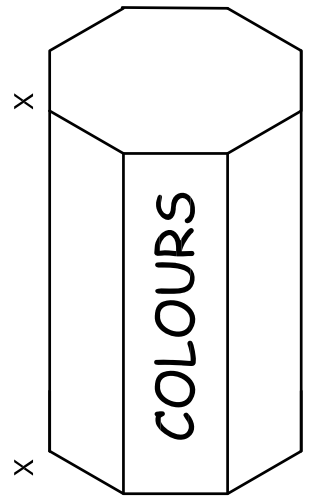
Question 6.

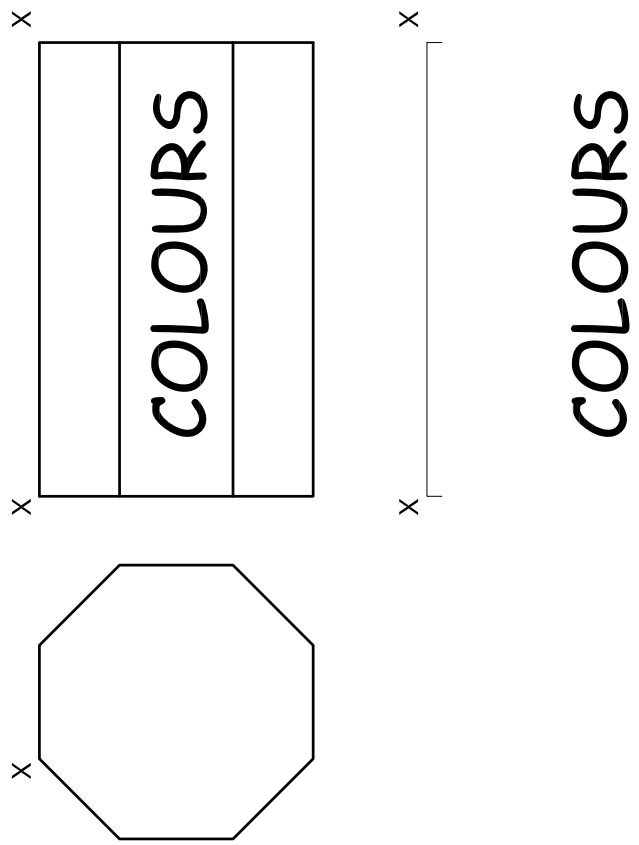
A set of colours has the packaging in the form of an **octagonal prism**. The front elevation and plan are given below.

Construct the surface development.

Notes: - X-X is the start line for the development.
- Include the bottom and the lid.

14 marks





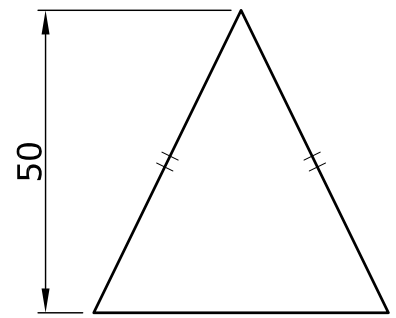
Question 7.

An **Isosceles** triangle is shown on the right.

Construct the triangle, which has a perimeter of 160mm and a vertical height of 50mm.

Notes:
- Start by drawing the perimeter as a horizontal line.
- Then, mark the vertical height.
- Continue with constructing the triangle.

10 marks



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