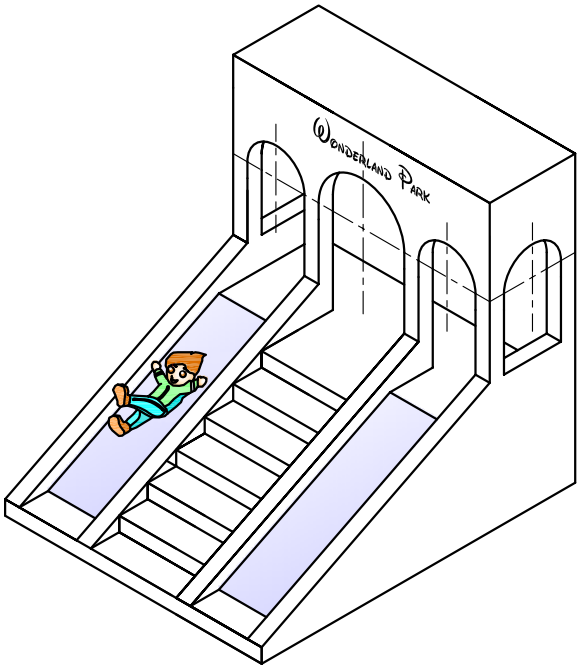
Question 1. An Isometric View a Front Elevation and a Plan of a Playground Slide are given. In the space indicated:

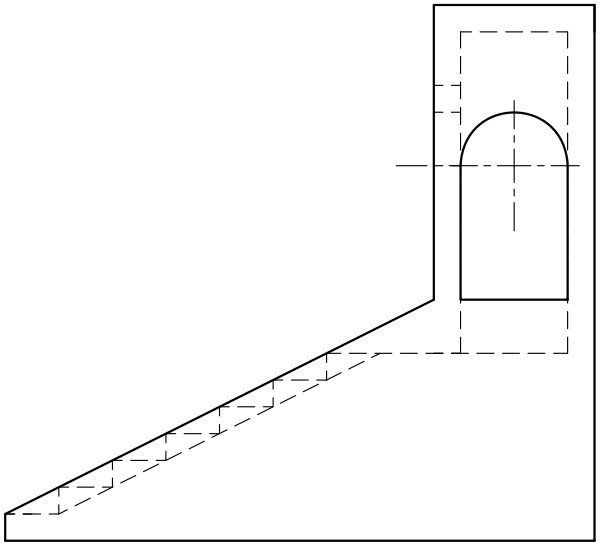
a) project the End Elevation

b) draw the symbol of the projection used

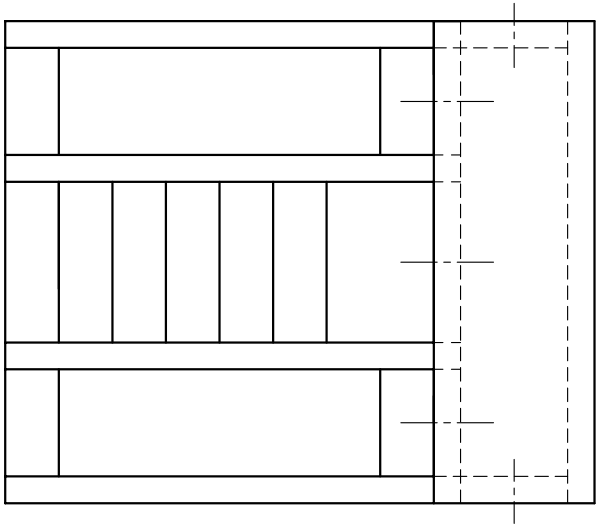
18 marks



PROJECTION SYMBOL



FRONT ELEVATION



PLAN

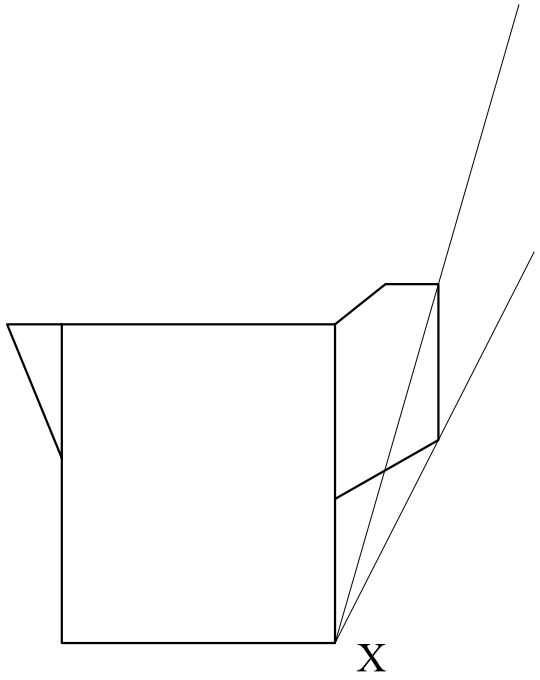
WONDERLAND PARK

END ELEVATION

Sheet 1 of 4

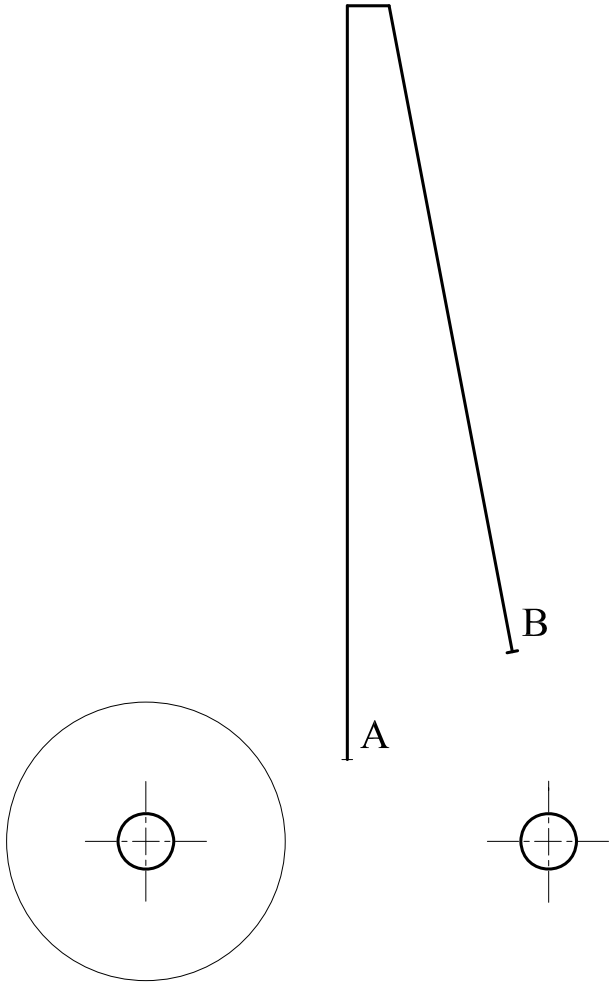
Question 2. A simple drawing of a milk jug is given below. Enlarge the jug by a ratio of 5:3, taking radial lines from point X.

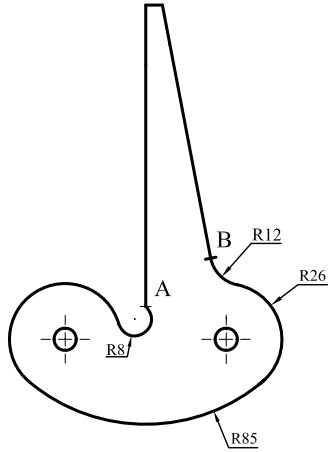
14 marks



Question 3. The tool shown, called a centre-square, is used to find the centre of round bars.
Using the given start lines and centres, draw the centre-square showing clearly the constructions required to locate the centre of the arcs and the points of tangencies.
Note: B is a point of tangency.

14 marks





Question 4. Two orthographic views of a wooden kennel are given.

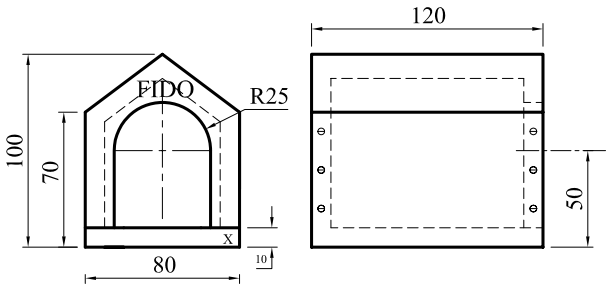
On the given start lines and using the given dimensions, draw an isometric view of the kennel.

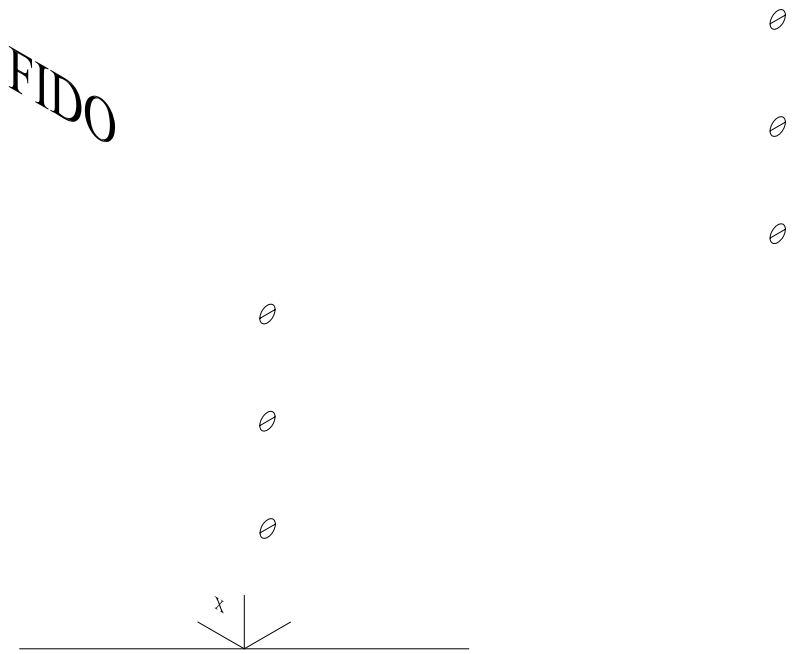
Notes:

Place corner X in the lowermost position.

Material thickness is 10mm throughout.

14 marks





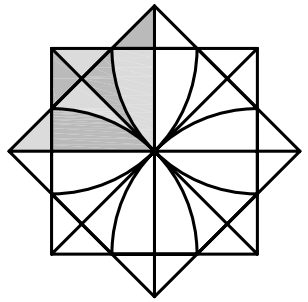
Question 5. The geometrical pattern shown on the left consists mainly of two squares, one resting on a face and the other resting on a corner.

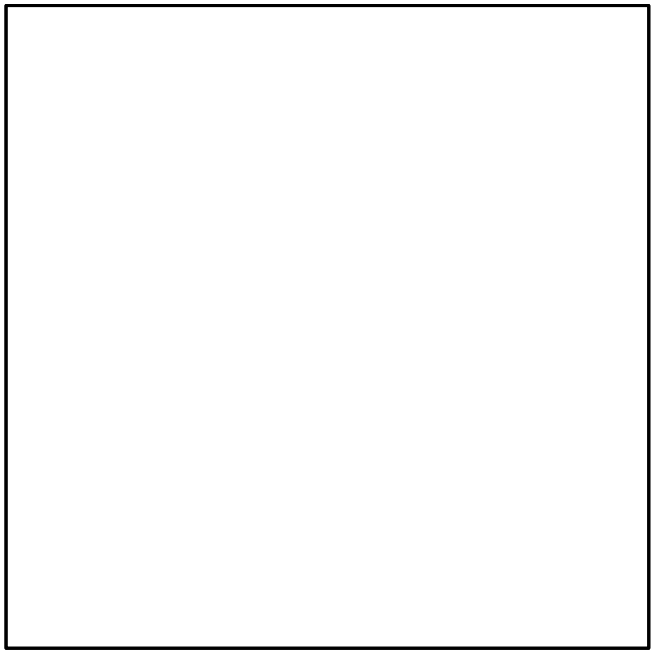
a) Inside the square given below, construct an octagon.

b) Extend the inclined sides of the octagon to form the other square.

c) Shade the logo as the given figure.

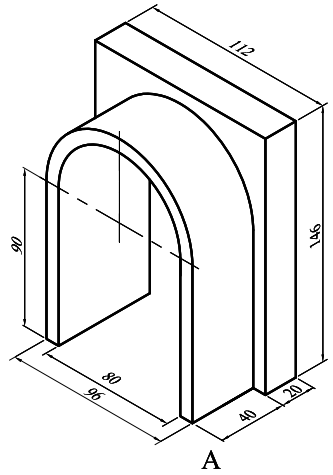
12 marks

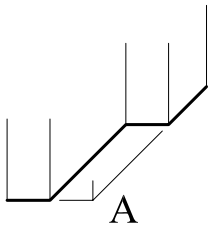




Question 6. The figure shows an isometric projection of a wooden arch surrounded by a wooden frame. Using the starter lines and to the given dimensions, draw a cabinet Oblique Projection, putting the arch on the foreground.

14 marks





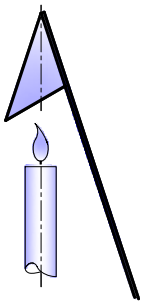
Question 7. A thin sheet metal candle extinguisher is shown on the right. The upper part of the extinguisher consists of a right cone cut at the base.
Using the given front elevation and the incomplete plan,

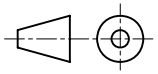
a) complete the plan and

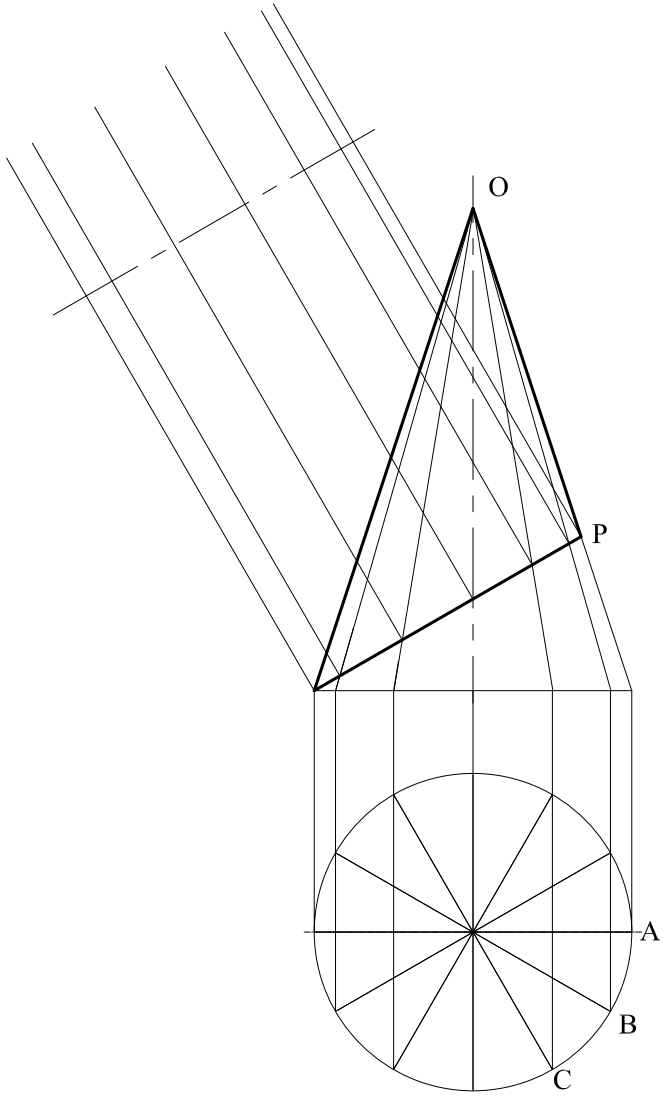
b) draw the true shape of section

Note: much of the construction lines needed to solve the problem are already drawn.

14 marks







Sheet 4 of 4