

# Activity 11

## OBJECTIVE

To find the values of abscissae and ordinates of various points given in a cartesian plane.

## MATERIAL REQUIRED

Cardboard, white paper, graph paper with various given points, geometry box, pen/pencil.

## METHOD OF CONSTRUCTION

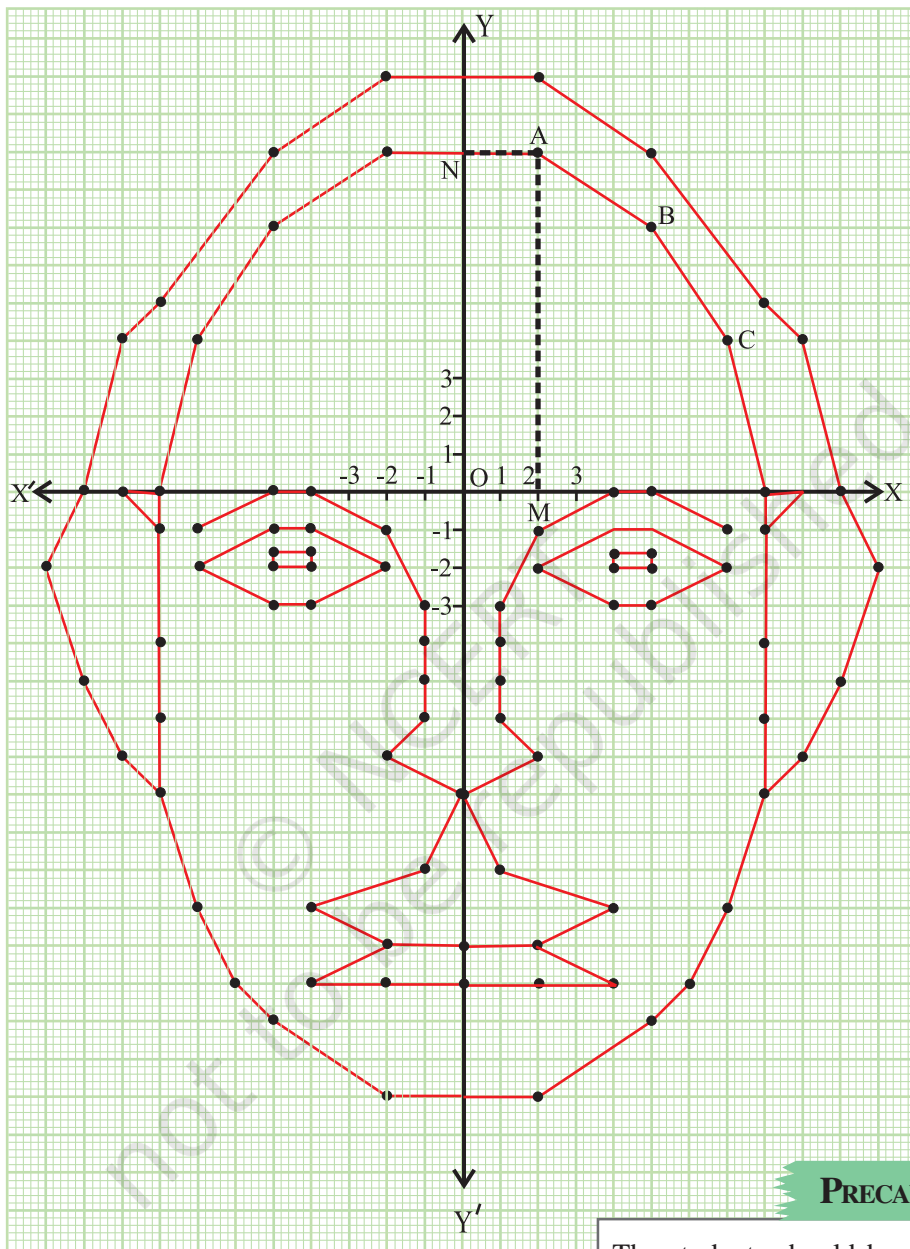
1. Take a cardboard of a convenient size and paste a white paper on it.
2. Paste the given graph paper alongwith various points drawn on it [see Fig. 1].
3. Look at the graph paper and the points whose abscissae and ordinates are to be found.

## DEMONSTRATION

To find abscissa and ordinate of a point, say A, draw perpendiculars AM and AN from A to  $x$ -axis and  $y$ -axis, respectively. Then abscissa of A is OM and ordinate of A is ON. Here,  $OM = 2$  and  $AM = ON = 9$ . The point A is in first quadrant. Coordinates of A are (2, 9).

## OBSERVATION

Point	Abscissa	Ordinate	Quadrant	Coordinates
B				
C				
...				
...				
...				
...				



**Fig. 1**

**APPLICATION**

This activity is helpful in locating the position of a particular city/place or country on map.

**PRECAUTION**

The students should be careful while reading the coordinates, otherwise the location of the object will differ.