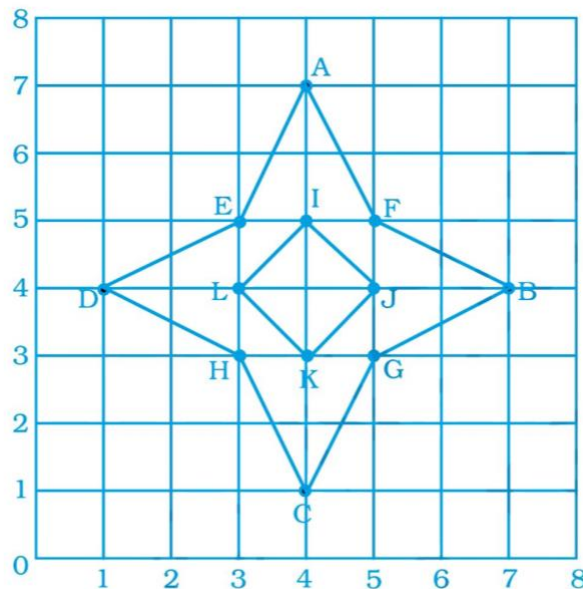


Worksheet on Graph: Coordinates

1. (i) Write the coordinates of all the points from A to L .
 (ii) Write the distance of the points A, C, E, G, I, K from x-axis.
 (iii) Write the abscissa of the points B, D, F, H, J, L.
 (iv) Write the distance between the pairs E ,H ; A, C and D, B.



2. Match the coordinates given in **Column A** with the items mentioned in **Column B**.

Column A

- (1) (0, 5)
- (2) (2, 3)
- (3) (4, 8)
- (4) (3, 7)
- (5) (0, 0)
- (6) (5, 0)

Column B

- (a) y coordinate is $2 \times x$ - coordinate + 1.
- (b) Coordinates of origin.
- (c) Only y -coordinate is zero.
- (d) The distance from x -axis is 5.
- (e) y coordinate is double of x -coordinate.
- (f) The distance from y -axis is 2.

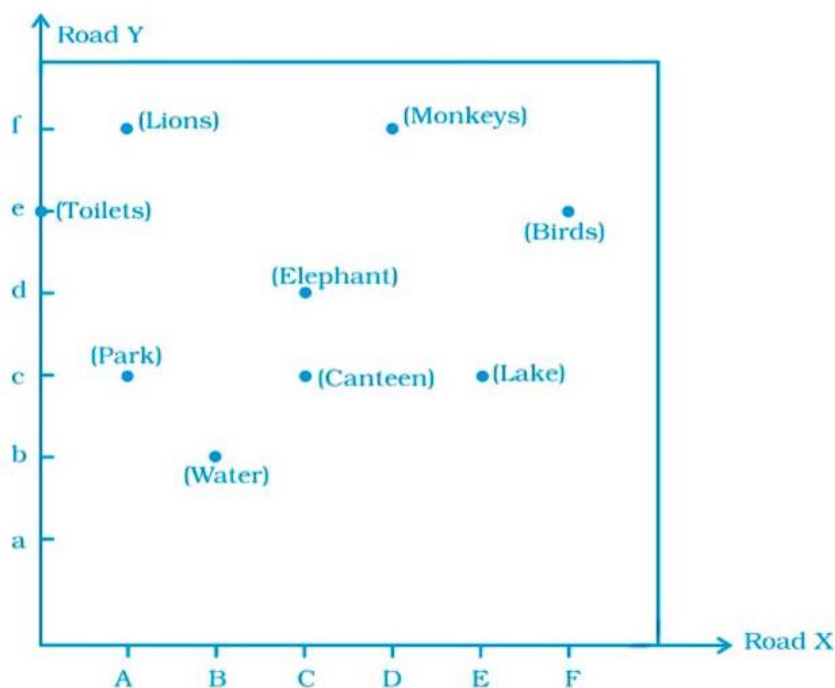
3. Write the x -coordinate (abscissa) of each of the given points.

- | | | |
|------------|------------|------------|
| (a) (7, 3) | (b) (5, 7) | (c) (0, 5) |
|------------|------------|------------|

Write the y -coordinate (ordinate) of each of the given points.

- | | | |
|------------|------------|------------|
| (a) (3, 5) | (b) (4, 0) | (c) (2, 7) |
|------------|------------|------------|

4. Study the following map of a zoo and answer the following questions:



- (a) Give the location of lions in the zoo.
- (b) (D, f) and (C, d) represent locations of which animals in the zoo?
- (c) Where are the toilets located?
- (d) Give the location of canteen.
- (e) What is the distance between Lake and Park?

5. Write true or false against the following statements.

A line graph can also be a whole unbroken line.

The distance of any point from the x -axis is called the x -coordinate.

The distance of the point (3, 5) from the y -axis is 5.

The ordinate of a point is its distance from the y -axis.

In the point (2, 3), 3 denotes the y -coordinate.

The coordinates of the origin are (0, 0).

The points (3, 5) and (5, 3) represent the same point.

The y -coordinate of any point lying on the x -axis will be zero.

6. Match the ordinates of the points given in **Column A** with the items mentioned in **Column B**.

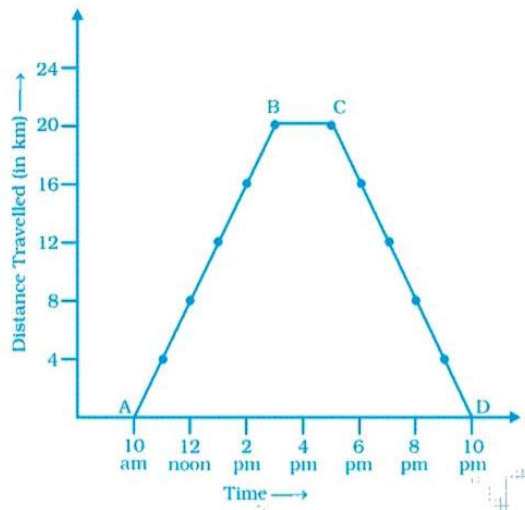
Column A

- (a) (7, 0)
- (b) (11, 11)
- (c) (4, 8)
- (d) (6, 2)
- (e) (0, 9)
- (f) (6, 3)

Column B

- (i) The ordinate is double the abscissa.
- (ii) The ordinate is zero.
- (iii) The ordinate is equal to the abscissa.
- (iv) The abscissa is double the ordinate.
- (v) The abscissa is triple the ordinate.
- (vi) The abscissa is zero.

7. Study the graph given below of a person who started from his home and returned at the end of the day. Answer the questions that follow.



- (a) At what time did the person start from his home?
- (b) How much distance did he travel in the first four hours of his journey?
- (c) What was he doing from 3 pm to 5 pm?
- (d) What was the total distance travelled by him throughout the day?
- (e) Calculate the distance covered by him in the first 8 hours of his journey.
- (f) At what time did he cover 16 km of his journey?
- (g) Calculate the average speed of the man from (a) A to B (b) B to C
- (c) At what time did he return home?