

Chapter—15

Introduction to Graphs

- Fill up the blanks:
 - The point where X-axis and Y-axis meet is called.....
 - Who is considered to be father of cartesian system.....
 - The X-coordinate of the point A (3, 7) is.....
 - Perpendicular distance of the point (2, 3) from X-axis is.....
 - The Y-coordinate of the point B (4, 1) is.....
 - Perpendicular distance of the point (5, 2) from Y-axis is.....
- From the given graph, locate the position of points A, B, C, D and E.

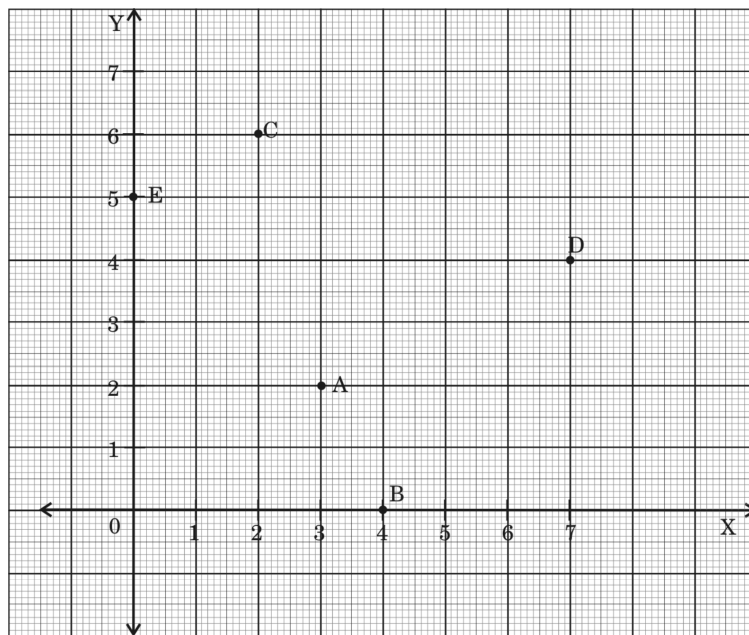


Fig. 1

- Plot the following points on the graph sheet:
A (2, 1), B (4, 5), C (0, 2.5), D (6, 2), E (3, 0)
- Plot the following points on the graph sheet. Join the points and name the geometrical figures so formed:
A (3, 2), B (7, 2), C (9, 5), D (3, 5), E (1, 5) F (1, 8)

5. Due to eating outside Ashu was admitted in a hospital with typhoid fever. His temperature was recorded at different times of the day as given below. Draw the temperature time graph to represent the data:

Time (in hrs.)	6 : 00	8 : 00	10 : 00	12 : 00	14 : 00	16 : 00	18 : 00
Temp. (in °F)	102	100	99	103	100	102	99

6. The runs scored by two teams A and B in first 10 overs are given below:

Overs	I	II	III	IV	V	VI	VII	VIII	IX	X
Team A	2	1	8	9	4	5	6	10	6	2
Team B	5	6	2	10	5	6	3	4	8	10

Draw the graph depicting the data on same axis.

7. For an experiment in science, Vikram and Rohit grew one plant each under similar lab conditions. Their heights were measured at the end of each week for 5 weeks. the result is shown by the following graph:

- Write height of plant A and plant B after (a) 2 weeks (b) 5 weeks.
- Write difference of height of the two plants after 5 weeks.
- During which week plant A grew most?
- During which week plant B grew least?

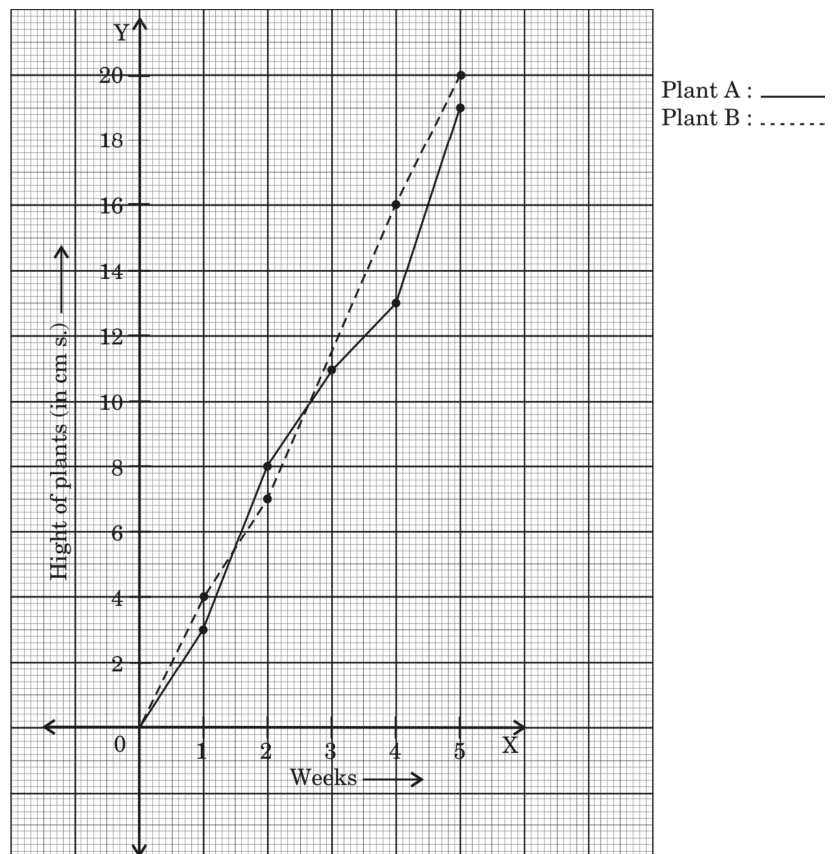


Fig. 2

8. The quantity of petrol filled in a car and the cost of petrol are given in the following table:

Petrol (litres)	10	15	20	25
Cost (Rs.)	500	750	1000	1250

Draw the graph of above data. Find the cost of 12 l of petrol using graph. How much petrol can be purchased for Rs. 800?