

SUBJECT: MATHEMATICS

CLASS: VIII

CHAPTER 15 : GRAPH OF LINEAR EQUATION.

EXPERIENTIAL LEARNING ACTIVITY:

MATERIALS REQUIRED:

Graph paper, Pencil.

Understanding the concept of linear equation by plotting the co-ordinates on Cartesian plane.

* Let us consider a situation . Suppose you have 60 rupees to spend . You went to a stationary shop to buy some pencils and some pens. Cost of one pencil is ₹2 and the cost of one pen is ₹4. Find the number of pencils and pens bought by you from the shop.

- Construct a linear equation in two variables.
- Let the number of pencils be 'x' and number of pens be 'y'.
- According to the given situation $2x+4y=60$.
- Now, we have to represent this situation on the graph paper by taking different values of 'x' we get different values of 'y'.
- Plot the co-ordinates in a Cartesian Plane (0,15), (2,14), (4,13), (6,12).
- On joining these points A,B,C and D, we get a straight line which represents the linear equation.

CURIOSITY QUESTION:

* How many solutions will you obtain for $x+y=1$?

* How many solutions will you obtain for $2x+5=3$?

ANSWER GUIDE:

*How many solutions will you get for linear equation of a single variable?

* How many solutions will you get for a linear equation with two variables?