

ACTIVITY – LINEAR EQUATIONS IN TWO VARIABLES

1. What we have to do?

To draw the graph of given linear equations in two variables and compute the area of the figure so obtained.

2. What is required?

Graph paper, Geometry kit

3. What do you need to know?

Drawing graph of linear equations in two variables

Expressing linear equations in one variable into two variables.

4. How will you proceed?

Draw the graph of the following linear equations in two variables.(use only one graph sheet for all the three equations)

- $x + y = 5$
- $x = 5$
- $y = 5$

Calculate the area of the figure bounded by these lines.

5. What have you observed?

Name the figure obtained by the intersection of lines ?

What is the area of the figure so formed?

6. What have you learnt?

7. What would you be interested in doing?

Draw graphs Of $x = 2$, $x = 6$, $y = -2$, $y = -6$ on the same graph sheet . Compute perimeter of the figure obtained.

Real life application :- Calculating mileage rates, predicting profit, comparing rates of pay, budgeting, making predictions etc.