## LINEAR EQUATIONS IN TWO-VARIABLES - CLASS - 9





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I am here because I love to give presentations. You can find me at @username



- > The students **recall** the linear equations in one variable.
- The students know the standard form of linear equations in two variables.
- The students will express the given problem mathematically in linear equations in two variables.
- The students will learn how to solve linear equations in two variables.
- > The students will **solve** the problem.
- > The students will **evaluate** the solution of the given problem.



Linear Equation: x+1 = 0 is an example for linear equation in one variable. Condiser 2x+5 = 0. The solution to this equation is x = -5/2. This can be represented in a number line.

# POINTS TO REMEMBER

The solution of the linear equation is not affected when (i) the same number is added to ( Or subtracted from ) both the sides of the equation. (ii) You multiply or divide both the sides of the equation by the same non-zero number



#### A PICTURE IS WORTH A THOUSAND WORDS



Suppose in a ODI cricket match, two Indian batsmen together scored 176 runs. Express this in the form of an equation.

Let us denote the score of the two batsmen as x and y. As the score of neither of them is known, we express this as x + y = 176.

class-9 Exencise 4.2 D Let the cost of the pen be x. Let the cost of the notebook be y. By Gilven condition,  $y = 2 \varkappa .$  $\therefore \qquad 2 \varkappa - y = 0.$ Let the cost of the per be any Let the cost of the notebook be yx. By Given condition, (Or) : x-2y=0. 2 1) 2x+34=9.35 221 +3y - 9.35 =0 R=2; b=3; c=-9.35 1) x - y - 10=0 a=1; b=-1; c=-10 (iii) -2x+3y=6 -221+34-6=0 a=-2; b=3; c=-6. (1) x= 3y x-3y=0 R=1 ; b= -3 ; C=0. (V) 2x =-5y 2x+5y=0. a=2; b=5; c=0 (M) 3x+2=0, 3x+0.y+2=0. a=2; b=0; c=2

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#### CONTINUED...

IF JASS M (ii) y-2=0. 0.x + 1.y - 2=0 a=0; b=1; c=-2(Viii) 5=2x -2x+0.y+5=0 a=-2; b=0; c=5.



## Any questions?

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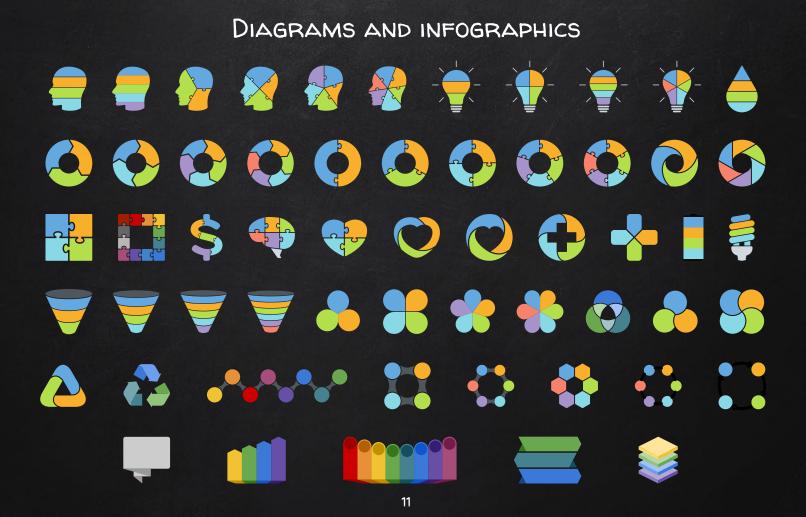
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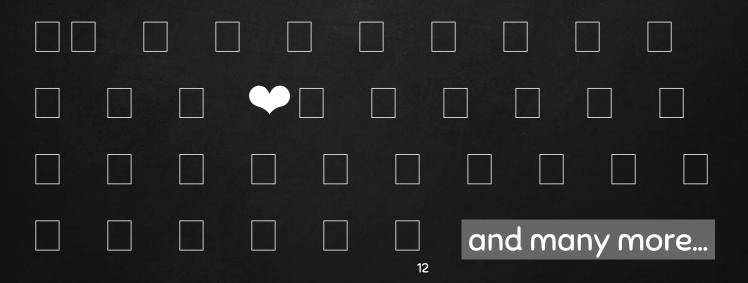






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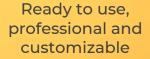


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