

**INTERNATIONAL INDIAN SCHOOL**

**BURAIDAH**

Worksheet For The Academic Year 2024-25

**CLASS: IX    SUBJECT: Mathematics    DATE: 29/11/2024**

**LESSON-4    Linear Equations in Two Variables**

- 1) Linear equations in two variables have \_\_\_\_\_ solutions.
- 2) General form of a linear equation in two variables is \_\_\_\_\_.
- 3) Represent the following equations in two variables:
  - a)  $2y = 3$
  - b)  $3x = -5$
- 4) Indicate the following equations in the standard form and write the values of 'a , b & c':
  - a)  $x - 5 = \sqrt{3} y$
  - b)  $3x + 4y = 4$
  - c)  $x = 2y$
- 5) Write four solutions each for the following equations:
  - a)  $4x + 3y = 12$
  - b)  $3x = 2y + 7$
  - c)  $x + y + 4 = 0$
  - d)  $2x + 5y = 9$
- 6) Find the value of 'k' if  $x = 1$  &  $y = 1$  is a solution of  $5x + 2y = 3k$ .
- 7) If  $(2,0)$  is a solution of  $2x + 3y = k$  , find the value of 'k'.
- 8) Check if  $(\sqrt{3} , 0)$  is a solution of  $3\sqrt{3} x - 3y = 9$  .
- 9) If  $(5 , k)$  is a solution of the linear equation  $2x + y - 6 = 0$  , find the value Of 'k'.
- 10) Simplify  $5x - 8y = 3(x + y) - 22$  and then represent it in the standard form of a linear equation in two variables.