

Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: X

Date:

Name:

ID No.....

Tick the correct answer for each of the following:

- ii. The pair of equations $6x - 4y + 9 = 0$ and $3x - 2y + 10 = 0$ has
- (a) a unique solution (b) no solution
(c) exactly two solutions (d) infinitely many solutions

Sol.

- iii. The pair of equations $x = a$ and $y = b$ graphically represent lines which are
- (a) coincident (b) parallel
(c) intersecting at (a, b) (d) intersecting at (b, a)

Sol.

- iv. If the lines given by $2x - 5y + 10 = 0$ and $kx + 15y - 30 = 0$ are coincident, then the value of k is
- (a) -6 (b) 6
(c) $\frac{1}{3}$ (d) $-\frac{1}{3}$

Sol.

- v. If $x = a, y = b$ is the solution of the equation $x + y = 3$ and $x - y = 5$, then the values of a and b are, respectively
- (a) 4 and -1 (b) 1 and 2
(c) -1 and 4 (d) 2 and 3

Sol.

- vi. If we add 1 to the numerator and denominator of a fraction, it becomes $\frac{1}{2}$. It becomes $\frac{1}{3}$ if we only add 1 to the denominator. The fraction is
- (a) $\frac{3}{4}$ (b) $\frac{2}{5}$
(c) $\frac{3}{5}$ (d) $\frac{1}{4}$

Sol.
