

# Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: X

Date: .....

Name: .....

ID No.....

## Assignment

1. For which value(s) of k, do the pair of linear equations  $kx + y = k^2$  and  $x + ky = 1$  have

(i) no solution?

(ii) infinitely many solutions?

(iii) a unique solution?

Sol. (i)

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(ii)

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(iii)

2. Write a pair of linear equations which has the unique solution  $x = -2$ ,  $y = 1$ . How many such pairs can you write?

Sol.

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3. Find the solution of the pair of equations  $\frac{x}{12} - \frac{y}{16} - 8 = 0$  and  $\frac{x}{6} + \frac{y}{8} = 0$ . Hence, find  $\lambda$ , if  $y = \lambda x - 8$ .

Sol.

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