



PAIR OF LINEAR EQUATIONS

CLICK & JOIN



MATHS PRACTICE PAPER 04

Total Marks : 20

I. Choose the Most Appropriate Answers

3 x 1 = 3

- Graphically, the pair of equations $7x - y = 5$; $21x - 3y = 10$ represents two lines which are
 - Intersecting at one point
 - Parallel
 - Intersecting at two points
 - Coincident
- The pair of equations $3x - 5y = 7$ and $-6x + 10y = 7$ have
 - A unique solution
 - Infinitely many solutions
 - No solution
 - Two solutions
- One equation of a pair of dependent linear equations is $2x + 5y = 3$. The second equation will be
 - $2x + 5y = 6$
 - $3x + 5y = 3$
 - $-10x - 25y + 15 = 0$
 - $10x + 25y = 15$

II. Solve the following

2 x 1 = 2

- How many solutions does the pair of equations $y = 0$ and $y = -5$ have?
- Calculate the area bounded by the line $x + y = 10$ and both the co-ordinate axes

III. Solve the following

4 x 2 = 8

- 5 pencils and 7 pens together cost ₹50, whereas 7 pencils and 5 pens together cost ₹46. Find the cost of one pencil and that of one pen.
- Half the perimeter of a rectangular garden, whose length is 4 m more than its width is 36 m. Find the dimensions of the garden graphically.
- Five years hence, the age of Jacob will be three times that of his son. Five year ago, Jacob's age was seven times that of his son. What are their present ages?
- Solve the $x + y = 5$ and $2x - 3y = 4$ by the elimination method

IV. Solve the following

1 x 3 = 3

- Solve $2x + 3y = 11$ and $2x - 4y = -24$ and hence find the value of m for which $y = mx + 3$.

V. Solve the following

1 x 4 = 4

- Draw the, graphs of the equations $x - y + 1 = 0$ and $3x + 2y - 12 = 0$. Determine the coordinates of the vertices of the triangle formed by these lines and the x-axis