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Class: 9 **Subject: Mathematics Topic: Linear equation in Two Variables** No. of Questions: 20

- Q1. In the graph of the linear equation 2x+2y = 8, there is a point such that its ordinate is thrice of abscissa. Find coordinates of the point.
- Q2. In the graph of the linear equation 2x+2y = 26, there is a point such that its ordinate is 3 less than its abscissa. Find coordinates of that point.
- Q3. The positive solutions of the equation px+qy=r always lie in which quadrant?
- At what point does line represented by the equation 7x+3y = -11 intersects a line which is Q4. parallel to the y-axis, and a distance 2 units from the origin and in the negative direction of xaxis.
- Q5. A point on line x = 0 is of the form
 - (a) (0, a)
 - (b) (a, -a)
 - (c) (a, a)
 - (d) (a, 0)
- A point of the form (p, p) lies on the line Q6.
 - (a) Y=0
 - (b) X = Y
 - (c) X = 0
 - (d) X + y = 0

Q7. If point (3, 2) lies on the graph of linear equation bx+5y = 19, find the value of b.

- (a) 1
- (b) 5
- (c) 3
- (d) 4

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- Q8. A line passés through points (-3, 11) and (2, -4). Find the y-intercept of the line
 - (a) 0
 - (b) 4
 - (c) 2
 - (d) 3

Q9. A line passé through points (-2, 5) and (-1, 3). Find the x-intercept of the line.

- (a) 0
- (b) 1.5
- (c) 0.5
- (d) -0.5

Q10. The graph of equation for the line x = b is a line

- (a) Parallel to x-axis at a distance b units from the origin
- (b) Making an intercept b on both the axes
- (c) Making an intercept b on th y-axis
- (d) Parallel to y-axis at a distance b units from the origin
- Q11. If both sides of a equation are multiplied by a non-zero number, then solution of the equation.
 - (a) Changes
 - (b) May or may not change depending on the equation
 - (c) Remains the same
 - (d) Will also be multiplied by same number
- Q12. Find the linear equation represented in the graph below.



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- Q13. Find the point where linear equation 2x+4y = 4 intersects with Y-axis.
 - (a) (1,0)
 - (b) (0, 4)
 - (c) (0, 1)
 - (d) (2,0)
- Q14. The equation of x-axis is
 - (a) X+Y = 0
 - (b) Y=0
 - (c) X = 0
 - (d) X = y

Q15. Equation 3x+5y = 10 has infinitely many solutions.

- (a) True
- (b) False
- Q16. Draw the graph of the equitation y = 2x. From your graph, find the value of x when y = -2.
- Q17. Find four different solutions of the equation x+2y = 6.
- Yamini and Fatima, two students of Class Ix of a school, together contributed Rs.100 towards Q18. the prime Minister's Relief Found to help the earthquake victims. Write a linear equation which satisfies this data. (You may take their contributions as Rs. x and Rs. y.) Draw the graph of the same.
- Q19. The value of x for which y = -4 is a solution of the linear equation 5x-8y = 47 is
 - (a) -3
 - (b) 3
 - (c) $\frac{79}{5}$
 - (d) $-\frac{79}{5}$

Q20. A solution of the equation $2 \times 9 = 0$ in two variables is of the form

(a)
$$\left(-\frac{9}{2}, m\right)$$

(b) $\left(m, -\frac{9}{2}\right)$

- (c) $\left(0, -\frac{9}{2}\right)$
- (d) (−9,0)

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