



Class 9 Mathematics | Two Variables, One Line

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. Which is a linear equation in two variables?

- A. $2x+3y=7$ B. $1/x+y=7$ C. $x^2+y=7$ D. $xy=7$

2. Which pair satisfies $2x+y=9$?

- A. (2,4) B. (3,3) C. (4,2) D. (1,6)

3. The lines $x+y=8$ and $x-y=2$ intersect at:

- A. (3,5) B. (4,4) C. (6,2) D. (5,3)

4. The graph of $x=4$ is:

- A. the x-axis B. parallel to x-axis
C. a circle D. parallel to y-axis

5. The graph of $y=-3$ is:

- A. the y-axis B. a curve
C. parallel to x-axis D. parallel to y-axis

6. The x-intercept of $3x+2y=12$ is:

- A. 3 B. 4 C. 6 D. 12

7. The y-intercept of $3x+2y=12$ is:

- A. 2 B. 6 C. 12 D. 4

8. How many real solutions does $x+2y=8$ have?

- A. Infinitely many B. Two C. One D. None

9. Which equation represents a line through the origin?

- A. $x+y=5$ B. $2x-3y=0$ C. $2x-3y=6$ D. $y=4$

10. The equations $x+2y=6$ and $2x+4y=12$ have:

- A. exactly two solutions
B. no solution
C. infinitely many solutions
D. one solution

11. A notebook costs x rupees and a pen y rupees. Two notebooks and three pens cost ₹90. Equation is:

- A. $2x+3y=90$ B. $3x+2y=90$
C. $x+y=90$ D. $5xy=90$

12. The lines $y=2x+1$ and $y=2x-3$ are:

- A. parallel and distinct B. coincident
C. intersecting at origin D. perpendicular

13. The line through (0,5) and (5,0) has equation:

- A. $2x+y=5$ B. $x-y=5$ C. $x+y=5$ D. $x+y=0$

14. Two pencils and a pen cost ₹19; one pencil and a pen cost ₹12. A pencil costs:

- A. ₹12 B. ₹6 C. ₹7 D. ₹5

15. A line passes through (0,2) and has slope -1. Its equation is:

- A. $y=x+2$ B. $y=2-x$ C. $y=x-2$ D. $y=-2x$

ANSWER KEY — check after completing all 15 questions

1.A 2.B 3.D 4.D 5.C 6.B 7.B 8.A 9.B 10.C 11.A 12.A 13.C 14.C 15.B