



Class 10 Mathematics | Pair Of Linear Equations In Two Variables

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

1. The solution of $x+y=7$ and $x-y=1$ is:

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

2. The equations $x+2y=5$ and $2x+4y=10$ have:

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

3. The equations $2x+3y=7$ and $4x+6y=9$ have:

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

4. For a unique solution, which condition holds?

A. $a_1/a_2=b_1/b_2 \neq c_1/c_2$ B. $a_1=b_1=c_1=0$ always
C. $a_1/a_2=b_1/b_2=c_1/c_2$ D. $a_1/a_2 \neq b_1/b_2$

5. If $3x+2y=16$ and $x=2$, then y is:

A. 5 B. 3 C. 4 D. 8

6. A pair of distinct parallel lines represents:

A. two solutions
B. a unique solution
C. infinitely many solutions
D. an inconsistent system

7. For $x+ky=4$ and $2x+6y=9$ to have no solution, k is:

A. 3 B. 2 C. 4 D. 6

8. If $2x+y=11$ and $x-y=1$, x is:

A. 5 B. 3 C. 6 D. 4

9. Two pens and one notebook cost ₹50; one pen and one notebook cost ₹35. A pen costs:

A. ₹15 B. ₹10 C. ₹20 D. ₹25

10. The sum of two numbers is 26 and their difference is 8. The larger is:

A. 9 B. 13 C. 18 D. 17

11. For $2x+3y=12$ and $3x-2y=5$, the solution is:

A. (4,1) B. (3,2) C. (1,5) D. (2,3)

12. If $x+y=9$ and $2x+2y=k$ have infinitely many solutions, k is:

A. 18 B. 4.5 C. 0 D. 9

13. The lines $x=3$ and $y=-2$ meet at:

A. (-2,3) B. (-3,-2) C. (3,2) D. (3,-2)

14. Integers n,d satisfy $n/d=1/2$ and $d-n=4$. Find the ordered pair (n,d) .

A. (2,4) B. (3,6) C. (4,8) D. (5,10)

15. Father and son have total age 50; father is 4 times son's age. Son is:

A. 12 years B. 15 years C. 10 years D. 8 years

ANSWER KEY — check after completing all 15 questions

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

Original exam-style practice • Reference notes: www.physics.guru/cbse-practice-papers/ • Not an official paper