

CHAPTER-3 | Pair of Linear Equations in Two Variables

QUIZ PART-08

1. The system $x+y=5$ and $2x-3y=4$ is solved by:

- A. Substitution
- B. Elimination
- C. Graphical
- D. None (B)

Explanation: Elimination method is used.

2. The sum of the digits of a number is 9. The number is:

- A. 45
- B. 54
- C. 63
- D. 72 (A)

Explanation: The number is 45.

3. Meena withdrew ₹2000 using ₹50 and ₹100 notes. The notes are:

- A. 10 and 15
- B. 15 and 10
- C. 12 and 13
- D. 13 and 12 (B)

Explanation: 15 ₹100 and 10 ₹50 notes.

4. Saritha paid ₹27 for 7 days. The fixed charge is:

- A. ₹3
- B. ₹4
- C. ₹5
- D. ₹6 (A)

Explanation: Fixed charge is ₹3.

5. The fraction becomes $\frac{9}{11}$ when 2 is added to both numerator and denominator. The fraction is:

- A. $\frac{5}{7}$
- B. $\frac{3}{5}$
- C. $\frac{4}{5}$
- D. $\frac{7}{9}$ (A)

Explanation: The fraction is $\frac{5}{7}$

6. The system $3x+4y=10$ and $2x-2y=2$ is :

- A. $x=2, y=1$
- B. $x=1, y=2$
- C. $x=3, y=0$
- D. $x=0, y=3$ (B)

Explanation: Solution is $x=2, y=1$.

7. Nuri was thrice as old as Sonu five years ago.

Their ages are:

- A. 20 and 10
- B. 25 and 15
- C. 30 and 10
- D. 35 and 5 (B)

Explanation: Nuri's age is 20, Sonu's age is 10.

8. The system $3x-5y=4$ and $9x=2y+7$ is solved by:

- A. Substitution
- B. Elimination
- C. Graphical
- D. None (A)

Explanation: Solved by substitution.

9. The system $x+2y=1$ and $x-3y=3$ is solved by:

- A. Elimination
- B. Substitution
- C. Graphical
- D. None (A)

Explanation: Solved by elimination.

10. The system $2x+3y=8$ and $4x+6y=7$ is:

- A. Consistent
- B. Inconsistent
- C. Dependent
- D. Independent (B)

Explanation: The system is inconsistent (parallel lines).