Class 9 | English



CHAPTER-4 | Linear Equations in Two Variables

QUIZ-01

1.	Which of the following is a linear equation in two
	variables?

A.
$$2x + 3 = 0$$

B.
$$2x + 3y = 5$$

C.
$$y2 + x = 7$$

D.
$$x^2 + y^2 = 4$$

Explanation: The equation
$$2x + 3y = 5$$
 is of the form

ax + by + c = 0, where a, b, and c are real numbers and both x and y are present.

2. The equation x + y = 176 has how many solutions?

A. One

B. Two

C. Infinite

- D. None
- (C)

What is the standard form of a linear equation in two variables?

A.
$$ax + by = 0$$

B.
$$ax^{2} + by = c$$

C.
$$ax + by + c = 0$$

D.
$$ax + by + c = xy$$

Explanation: The standard form is ax + by + c = 0where a, b, and c are real numbers.

- 4. Which of the following points is a solution of 2x + 3v = 12?
 - A.(3,2)

B. (1, 4)

C.(2,3)

D. (2, 2)

Explanation: Substituting (3, 2): $2 \times 3 + 3 \times 2 = 6 + 6 = 6$ 12, which satisfies the equation.

5. In the equation x = -5, the value of b is:

- C. -5
- D. Cannot be determined

(B)

Explanation: It can be written as
$$1x + 0y + 5 = 0$$
; hence, $b = 0$.

6. Which of the following pairs is not a solution of
$$\boldsymbol{x}$$
 -

$$2y = 4$$
?

A.
$$(0, -2)$$

Explanation: $1 - 2 \times 1 = -1 \neq 4$, so (1, 1) is not a solution.

7. If
$$x = 2$$
 and $y = 1$ satisfy $2x + 3y = k$, the value of k is:

A. 5

B. 6

Explanation:
$$2 \times 2 + 3 \times 1 = 4 + 3 = 7$$
, so $k = 7$.

8. The pair (0, 4) is a solution of which equation?

A.
$$x + y = 4$$

B.
$$2x + 3y = 12$$

C.
$$x - y = -4$$

D.
$$x + 2y = 4$$

Explanation: Substituting (0, 4): $2 \times 0 + 3 \times 4 = 12$

9. Which one is NOT a linear equation in two variables?

A.
$$x + y = 5$$

B.
$$3x - 2y = 7$$

C.
$$xy = 4$$

D.
$$2x + 3y + 6 = 0$$
 (C)

Explanation: xy = 4 is not linear because it includes product of variables.

10. Which equation has the pair (6, 0) as its solution?

A.
$$x + y = 6$$

B.
$$2x + 3y = 12$$

$$C. x - 2v = 6$$

C.
$$x - 2y = 6$$
 D. $x + 2y = 5$

Explanation: $2 \times 6 + 3 \times 0 = 12$, so it satisfies the

equation.