

SUBJECT- MATHEMATICS
CLASS-VI
CHAPTER – LINEAR EQUATIONS
BASIC

Choose the correct answer

1. Equation of the statement, 3 added to a number x is 9 is _____.
 a. $x+3 = 9$ b. $9+x = 3$ c. $3x = 9$ d. none of these
2. $10x = 50$ value of x is _____.
3. To solve the equation $x + 5 = 10$ we first add _____ both the sides.
 a. 4 b. 5 c. 0 d. -5
4. The power of variable in a linear equation is _____.
 a. 1 b. 0 c. 2 d. 3
5. If x takes the value 2, then value of $x+10 =$ _____.
 a. 12 b. 20 c. 5 d. 8

Fill in the blanks

6. If $x+8 = 11$ then value of x is _____.
7. The variable used in the equation $3z + 8 = 2$ is _____.
8. The solution of the equation $3x + 7 = -20$ is _____.
9. To solve the equation $6y = 48$ we _____ LHS and RHS by 6.
10. To solve the equation $x+3 = 8$ we first add _____ to both the sides.

Answer the followings

11. Solve the equation $8x = 72$
12. Solve the equation $\frac{x}{8} = -3$.
13. If $0.5x = 2.5$, then find x.
14. Check if $p = 4$ is the solution of $\frac{1}{2}(p+3) = 7$
15. If $x+8 = 12$, then $3x - 4 = ?$

Short answer type questions I

Check whether given variable can solve the equation .Write ‘Yes’ or ‘No’.

Equation	Value of the variable	Yes/No
16. $10y = 80$	$y = 8$	
17. $a+4 = 5$	$a = -1$	
18. $2x - 1 = -9$	$x = 4$	
19. $2x + 1 = 7$	$x = 3$	
20. $y - 1$	$y = -3$	

Short answer type questions II

Separate the LHS and RHS of the following equations.

Linear Equation		LHS	RHS
21.	$2x + 5 = 12$		
22.	$5y - 1 = 9 - 2y$		
23.	$3z - 5 = 15$		
24.	$3z + 5 = z - 8$		
25.	$\frac{3x}{4} = 5$		

Long answer type questions

Convert the following statement into an equation.

26. Twice a number decreased by 8 is 7.
27. One third of a number added to 2 is 11.
28. Thrice a number increased by 5 is 10.
29. Two times the sum of a number x and 3 equals 14.
30. Six times a number y is 3 more than the number itself.