

I. Fill in the blanks:

11x1=11

1. There is always an ____ sign in an equation.
2. Add 7 to three times n to get 1 (convert statement to equation)
3. An equation remains the _____ when the expression on the left and on the right are interchanged.
4. The value of the variable for which the equation is satisfied is called the ____ of the equation.
5. Write $\frac{P}{2} = 4$ in statement form.

(Change the following statements in equation form (Q. No. 6 to 8))

6. If you take away 5 from 3times Z, you get 45.
7. Twenty time 'b' is 100.
8. The difference between y and 2 is 8.
9. Is $x = 0$ the solution of $5x = 1$.
10. True or false: Three fourth of y is $\frac{3y}{4}$.
11. Solve: $x + 3 = 5$.

II. Answer the following questions:

3x3=9

12. Solve the following equation by trial and error method: $7n + 3 = 17$.
13. Check whether the value given in the brackets is a solution to the given equation or not. i) $5a - 17 = 18$ ($a = -1$) (ii) $3p - 3 = (-3)$ ($p = 0$)
14. Give the steps you will use to separate the variable and then solve the equation (i) $3q - 6 = 21$.