

Chapter – 11

Algebra

Worksheet – 1

1. Express perimeter of a regular pentagon through a variable equation? (Take n as the variable)
 - a. $2n$
 - b. $3n$
 - c. $5n$
 - d. $6n$
2. Express perimeter of a square in the form of a variable equation? (Take L as the variable)
 - a. $2L$
 - b. $3L$
 - c. $4L$
 - d. $6L$
3. Express perimeter of a rectangle in the form of a variable equation? (take l and b as length and breadth)
 - a. $(l + b)$
 - b. $2(l + b)$
 - c. $3(l + b)$
 - d. $4(l + b)$
4. 6 more than a number can be written as:
 - a. $x + 5$
 - b. $x + 6$
 - c. $x + 7$
 - d. $x + 8$
5. 5 added to a number is equal to 8. Write an equation expressing the relation?
 - a. $x + 5 = 8$
 - b. $x - 5 = 8$
 - c. $x - 5 = -8$
 - d. $x + 5 = -8$
6. Abhinav is making a drawing by joining dots. He has 9 dots in a row. How many dots will his drawing have for 'p' rows?
 - a. $9 + p$

- b. 99
- c. $9 - p$
- d. $9P$

7. Which of the following is expression with one variable?

- a. $(x + y + z)$
- b. $(y + 1)$
- c. 1
- d. $(x + y - 5)$

8. The length of a rectangular room is 5 meters less than 2 times the breadth of the wall. What is the length if breadth is b meters?

- a. $10b$
- b. $2b + 5$
- c. $2b - 5$
- d. None of the above

9. Express perimeter of a regular hexagon through a variable equation? (Take n as the variable)

- e. $2n$
- f. $3n$
- g. $5n$
- h. $6n$

10. A teacher distributes 6 sweets to each of her students in the class. If there are 's' number of students in the class, then how many sweets are required?

- a. $6 - s$
- b. $6 + s$
- c. $6s$
- d. $6/s$

11. Think of a number. Multiply it by 5 and add 6 to the product and subtract y subsequently. Find the resulting number?

12. Identify the terms of the algebraic expression: $6ab^2 + 4c^2 - 4ab + 9$?

13. Write algebraic expression for "8 times number x is less than variable y "?

14. If the side of an equilateral triangle is y , then find its perimeter?

15. If $x = 4$, then find the value of the following:

- a. $3x + 5$
- b. $6x$
- c. $4x - 8$

d. $2(x + 7)$

16. If $x = 4$ and $y = 5$, then find the value of the following:

- $X + y + 6$
- $X + y - 7$
- $X - y + 8$
- $X - y - 2$

17. If $\frac{5}{7}x = 20$, then find the value of x ?

18. Check whether $3x - 5 = 4x - 9$ is correct for which value of x ?

19. For which value of x , the equation $4x - 19$ is equal to 1?

20. For which value of x , the equation $5x - 20$ is equal to 20?