

Chapter – 11

Algebra

Worksheet – 2

1. If  $x - 2 + 3 = 6$ , then find the value of  $x$ ?
  - a. 4
  - b. 5
  - c. 6
  - d. 7
2. If  $x + 2 - 7 = 6$ , then find the value of  $x$ ?
  - a. 10
  - b. 11
  - c. 12
  - d. 13
3. If  $x + y = 10$ , then value of  $x$  in terms of  $y$  is: -
  - a.  $y - 10$
  - b.  $y - 11$
  - c.  $10 - y$
  - d.  $y + 10$
4. Coefficient of  $b$  in  $(-9abc)$  is \_\_\_\_\_.
  - a.  $-9a$
  - b.  $-9ac$
  - c.  $9ac$
  - d.  $9c$
5. Numerical coefficient in  $3abc$  is \_\_\_\_\_.
  - a. 1
  - b. 2
  - c. 3
  - d. 4
6. Numerical coefficient in  $5a^2$  is –
  - a. 2
  - b. 5
  - c. 7
  - d. 9
7. If  $\frac{y}{6} = 1$ , then  $y =$  \_\_\_\_\_.

- a. 5
  - b. 6
  - c. 7
  - d. 8
8. Which of the following is an equation with two variables?
- a.  $X + y = z$
  - b.  $X - y = z$
  - c.  $X + 2 = z$
  - d.  $X - y = -z$
9. 4 times x added to 14 is equal to \_\_\_\_.
- a.  $14 - 4x$
  - b.  $14 + 4x$
  - c.  $4x - 14$
  - d.  $4(x + 14)$
10. 6 times x subtracted from y is equal to –
- a.  $Y - 6x$
  - b.  $Y + 6x$
  - c.  $Y + 5x$
  - d.  $5x - y$
11. If the side of a regular pentagon is x, then find its perimeter?
12. Write algebraic expression for “7 times number x is less than 2 times variable z”?
13. If  $x = 8$ , then find the value of the following:
- a.  $4x + 10$
  - b.  $8x$
  - c.  $2x - 5$
  - d.  $3(x - 2)$
14. If  $x = 6$  and  $y = 4$ , then find the value of the following:
- a.  $X + y + 5$
  - b.  $X + y - 8$
  - c.  $X - y + 2$
  - d.  $X - y - 5$
15. If  $\frac{5}{7}x = 25$ , then find the value of x?
16. Check whether  $3x - 5 = 4x - 8$  is correct for which value of x?
17. Check whether  $2z - 5 = 5z - 17$  is correct for which value of z?

18. Rajesh scored 30 marks in Math's, 50 in English and  $x$  marks in Hindi.  
Then what is his total score in all three subjects?
19. Neeta scored 40 marks in Math's,  $y$  marks in English and  $x$  marks in Hindi.  
Then what is her total score in all three subjects?
20. If Namrata scored 240 marks in three subjects and his marks in Math's and English are  $x$  and  $y$  respectively, then how much marks did she got in Hindi?