## Chapter-11

## Algebra

## Worksheet - 3

1. One-fourth of a number $x$ added to the number itself can be expressed as: -
a. $\mathrm{X}+\frac{1}{4}$
b. $X+\frac{1}{4} \mathrm{X}$
c. $\frac{1}{4} \mathrm{x}-\mathrm{x}$
d. $\mathrm{X}-4$
2. 7 less than a number equal to 8 . What is the number?
a. 12
b. 13
c. 14
d. 15
3. 5 subtracted from 6 times a number can be expressed as $\qquad$ . (taking number as n)
a. $6 \mathrm{n}-5$
b. $7 \mathrm{n}-1$
c. $8 \mathrm{n}-2$
d. $5 n-4$
4. 6 added to 14 times a number can be expressed as $\qquad$ . (Taking number as y)
a. $14 y+6$
b. $15 y+7$
c. $14 y+8$
d. $15 \mathrm{y}+6$
5. 7 times a number x multiplied with number y can be written as $\qquad$ .
a. $7(\mathrm{x}+\mathrm{y})$
b. $7 x y$
c. $7 \mathrm{x}+\mathrm{y}$
d. $Y-7 x$
6. Six times of a negative number can be expressed as $\qquad$
a. 7 x
b. $-6 x$
c. -8 x
d. 7 x
7. Five times of the difference between two numbers can be expressed as -
a. $6(\mathrm{x}-\mathrm{y})$
b. $7(\mathrm{x}-\mathrm{y})$
c. $5(\mathrm{x}-\mathrm{y})$
d. $8(\mathrm{x}-\mathrm{y})$
8. Six less than a number is equal to 5 less than another number. Express it in the form of an equation?
a. $x-y=-6$
b. $x-y=1$
c. $x-y=-8$
d. $x-y=-10$
9. Twice the sum of number $y$ and 14 can be written as $\qquad$ .
a. $2(y-14)$
b. $2(y+14)$
c. $2(y-14)$
d. 2 (14y)
10. One-fourth of number $x$ added to one-third of number $y$ can be expressed as
$\qquad$ .
a. $\frac{1}{4} \mathrm{x}+\frac{1}{3} \mathrm{y}$
b. $\frac{1}{4} \mathrm{x}-\frac{1}{3} \mathrm{y}$
c. $-\frac{1}{4} \mathrm{x}-\frac{1}{3} \mathrm{y}$
d. $-\left(\frac{1}{4} \mathrm{x}-\frac{1}{3} \mathrm{y}\right)$
11. If the side of a regular hexagon is x , then find its perimeter?
12. Write algebraic expression for " 9 times the number $x$ is less than the sum of 6 and variable y"?
13. Find the sum of $2(x+9)$ and $3(y+11)$, if $x=5$ and $y=4$ respectively?
14. Find the difference between $8(x+2)$ and $5(y+2)$, if $x=6$ and $y=3$ respectively?
15. If $x=9$, then find the value of the following:
a. $4 \mathrm{x}+10$
b. 8 x
c. $2 \mathrm{x}-5$
d. $3(x-2)$
16. If $x=8$ and $y=5$, then find the value of the following:
a. $X+y+4$
b. $X+y-2$
c. $X-y+4$
d. $X-y-7$
17. What will be the product of 5 xy and 7 yz if values of $\mathrm{x}=2, \mathrm{y}=3, \mathrm{z}=5$ respectively?
18. If $\frac{6}{8} x=48$, then find the value of $x$ ?
19. Check whether $15 x-10=16 x-12$ is correct for which value of $x$ ?
20. Find the value of $6(x y+y z+z x)$ if $x=5, y=4$ and $z=3$ respectively?
