$\underline{\text{Chapter} - 11}$

<u>Algebra</u>

$\underline{Worksheet-3}$

	One-fourth of a number x added to the number itself can be expressed as: -
	a. $X + \frac{1}{4}$
	b. $X + \frac{1}{4}x$
	$C. \frac{1}{4}X - X$
	d. X – 4
2.	7 less than a number equal to 8. What is the number?
	a. 12
	b. 13
	c. 14
2	d. 15
3.	5 subtracted from 6 times a number can be expressed as (taking
	number as n)
	 a. 6n - 5 b. 7n - 1
	c. $8n-2$
	d. $5n-4$
4.	6 added to 14 times a number can be expressed as (Taking number as
	y)
	a. 14y + 6
	b. $15y + 7$
	c. $14y + 8$
	d. $15y + 6$
	7 times a number x multiplied with number y can be written as
	a. $7(x + y)$
	b. 7xy
	c. $7x + y$
	d. $Y-7x$
6.	Six times of a negative number can be expressed as
	a = 7x

b. - 6x

$$c. - 8x$$

7. Five times of the difference between two numbers can be expressed as –

a.
$$6(x - y)$$

b.
$$7(x - y)$$

c.
$$5(x - y)$$

d.
$$8(x - y)$$

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 _____.

a.
$$2(y-14)$$

b.
$$2(y + 14)$$

c.
$$2(y-14)$$

10. One-fourth of number x added to one-third of number y can be expressed as

a.
$$\frac{1}{4}x + \frac{1}{3}y$$

b.
$$\frac{1}{4}x - \frac{1}{3}y$$

$$c.-\frac{1}{4}x-\frac{1}{3}y$$

$$d. - (\frac{1}{4}x - \frac{1}{3}y)$$

- 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. 4x + 10
 - b. 8x
 - c. 2x 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 5xy and 7yz if values of x = 2, y = 3, z = 5 respectively?
- 18. If $\frac{6}{8}$ x = 48, then find the value of x?
- 19. Check whether 15x 10 = 16x 12 is correct for which value of x?
- 20. Find the value of 6(xy + yz + zx) if x = 5, y = 4 and z = 3 respectively?