

**International Indian School Buraidah**

**STD VII - Maths Worksheet - 04**

**L # 4 Simple Equations**

1. Write equations for the following statements:

- (a) 3 more than a number is 19
- (b) 4 less than 2 times a number is 24
- (c) 19 times the sum of a number and 2 is 190
- (d) 8 times a number is 6 more than 10
- (e) Twice a number subtracted from 15 gives 9

2. Convert the following equations in statement form:

(a)  $p + 4 = 15$       (b)  $\frac{3m}{5} = 6$       (c)  $m - 7 = 3$

(d)  $3p + 4 = 25$       (e)  $3p + 4 = 25$       (f)  $\frac{P}{2} + 2 = 8$

3. Solve the following equation using trial & error method:

(a)  $x + 7 = 1$       (b)  $14 - x = 6$       (c)  $4x = 36$

4. Check whether the values given in the bracket is a solution of the given equation or not :

(a)  $n + 5 = 19$  ( $n = 1$ )      (b)  $7n + 5 = 19$  ( $n = 2$ )      (c)  $4p - 3 = 13$  ( $p = -4$ )

5. Solve the following equation using transposition method:

(a)  $9x - 1 = 35$       (b)  $7x + 3 = 24$       (c)  $6x - 4 = 50$

(d)  $\frac{x}{7} - 1 = -6$       (e)  $\frac{x}{5} = -1$       (f)  $\frac{x}{4} + 7 = 2$       (g)  $\frac{x}{2} + 6 = 1$

(h)  $\frac{x}{3} - 4 = -5$       (i)  $5(x + 3) = 25$       (j)  $35 = 9 + 13(x - 1)$

(k)  $8(1 - x) = 80$       (l)  $\frac{3x - 2}{4} = 7$       (m)  $2(3x - 1) + 7 = 17$

(n)  $-3(x + 2) = 15$

6. Solve the following equation using elimination method :

(a)  $3x + 4 = 7$    (b)  $7x = 1$    (c)  $\frac{x}{4} - 5 = 10$    (d)  $\frac{5x}{2} = 50$

7. Construct three equations starting from:

(a)  $x = 5$    (b)  $x = -4$    (c)  $x = 0$

8. Form equations & solve:

- (a) If one fifth of a number is 7 ,find the number.
- (b) If 3 is taken away from 5 times a number ,the result is 17. Find the number.
- (c) The sum of two consecutive numbers is 53. Find the numbers.
- (d) The no.of boys in a class is 11 more than the no.of girls in the class. If there are 75 students in the class ,find the no.of boys & girls in the class.
- (e) Thre angles of a triangle are  $x$  ,  $x+10$  ,  $70$  . Find the two angles of a triangle.
- (f) The length of a rectangle is 4 times the breadth .If the perimeter is 125m , find the length & breadth of the rectangle.
- (g) Vani's mother is 6 years more than twice Vani's age. If the sum of their ages is 57, find their ages.
- (h) The sum of a number and  $\frac{2}{5}$  times the same number is 70 , find the numbers.