ATOMIC ENERGY CENTRAL SCHOOL

CLASS- 7   **Subject- MATHEMATICS**

WORK SHEET- 1, Module- $\frac{1}{2}$

Chapter- 4- SIMPLE EQUATION

1. Fill in the blanks-

 (i) Value of the variable which makes the equation a true statement is known as -----------.

 (ii) If the LHS and RHS of an equation are interchanged, then the equation remains -------.

 (iii) Movement of number from one side to another side of an equation is called --------.

 (iv)If the same quantity is added to both sides of an equation, then the equation remains -------.

 (v) The solution of the equation $2x+ 5 = 15$ is --------------.

2. Write the equations of the following statements:

a. The sum of half of a number and 7 is 19.

b.6 is subtracted from twice of a number is 18.

3.Write the statement of the following equations:

a. $3y +2 = 8$ b.$\frac{1}{2}x - 4 = 5$ c. $x -8 = 12$

4. Solve the following equation:

a. $x - 4 = 5$ b . $y + 6 = 7$ c. $8x = 56$ d, $\frac{m}{6} = 7$
e. $4x - 2 = 6$ f. $5q + 9 = 19$ g. $5y + 15 = 0$.

5. Set up an equation in the following cases:

(a) Amar's age is 5 years more than three times of his sister's age.Amar's age is 20 years.

(b)Raghul's father is 54 years old. He is three years older than three times Raghul's age.

(c) The length of a rectangle is twice of its breadth and its perimeter is 24m.

    {hint- perimeter of rectangle is 2 (length + breadth) }

(d).The sum of three times a number and 12 is 33.

 (e) In an isosceles triangle, the base angles are equal. The vertical angle is 50^0.

  {hint- the sum of three angles of a triangle is 180^0 }