**Linear Equations as Word Problems**

**Steps**

1. **What am I asked to find to solve the problem. Write a “Let x =”statement**
2. **What information am I given? What do the numbers represent.**
3. **What math operations should I use?**
4. **What is the equation equal to?**
5. **Write the equation and solve.**
6. **Write a closing sentence.**

Examples: Convert the following statements into equations
(a) 5 added to a number is 9.

(b) 5 times a number decreased by 2 is 4.

(c) 2 times the sum of the number x and 7 is 13.

(d) The sum of two consecutive even numbers is 38. Find the numbers.

**Your Turn
1.**A number is 12 more than the other. Find the numbers if their sum is 48.

**2.**Twice the number decreased by 22 is 48. Find the number.

**3.**Seven times the number is 36 less than 10 times the number. Find the number.

**4.**The sum of three consecutive odd numbers is 51. Find the numbers.

**5.**The length of a rectangle is 10 m more than its width. If the perimeter of rectangle is 80 m, find the dimensions of the rectangle.

**6.**A 300 m long wire is used to fence a rectangular plot whose length is twice its width. Find the length and width of the plot.

**7.**Adman’s father is 49 years old. He is 5 years older than four times Adman’s age. What is Adman’s age?

**8.**The cost of a pencil is 25 cents more than the cost of an eraser. If the cost of 8 pencils and 10 erasers is $12.80, find the cost of each.