Aptitude Assignment 2

- 1. What quantity of water should be added to the milk water mixture so that the milk water ratio changes from 2:3 to 4:11. The quantity of milk in the mixture is 40 liters?
- 2. Linear equation 2x+3y=0 meets the x & y-axis at the point?
- 3. a & b are positive integers such that a^2-b=19. Find a & b?
- 4. Find a^+b^3+c^3+3abc, where a+b+c=5 &, a^2+b^2+c^2=10?
- 5. Sum of two, two-digit numbers is a perfect square. The digits of the first two-digit number are two consecutive positive integers; also, when the digits of the first number are reversed, the second number is formed. Find these numbers & the square root of their sum.

ANSWERS:-

- 1) 50 liters of water should be added to the milk-water mixture in order to change the milk-water from 2:3 to 4:11, given that the quantity of milk in the mixture is 40 liters.
- 2) Both the x-axis and y-axis intersections of the equation 2x + 3y = 0 occur at the origin (0,0).
- 3) The positive integer values of a and b are a=5 and b=6.
- 4) The a³+b³+c³+3abc=50.
- 5) The two numbers are 45 and 54, the square root of their sum is 9.949.