

## 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 litres?

Answer:- 20 litres of water should be added

2. Linear equation  $2x+3y=0$  meets the x & y-axis at the point?

Answer:- (0,0)

3. a & b are positive integers such that  $a^2-b^2=19$ . Find a & b?

Answer:- (a=10, b=9)

4. Find  $a^3+b^3+c^3+3abc$ , where  $a+b+c=5$  & ,  $a^2+b^2+c^2=10$ ?

Answer:- 12.5

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. Answer:- The two digits are 23 and 32 and square root of their sum is  $(55)^{1/2}$  that is 7.