## Multiplying Two Numbers Less Than 1000, But Close To 1000:

 A. This method is very similar to <u>Multiplying Two Numbers Less Than 100</u> and comes from the algebra:

(1000 - a) (1000 - b) = 1000[(1000 - a) - b] + ab

- B. Using numbers instead of variables we get the following:
  - 1. Find the difference between both the numbers and 1000.
  - 2. Multiply these two values together and write it down. Make sure the answer takes up 3 place values.
  - 3. Subtract the difference found in step 1 of one of the numbers with the remaining number. Write the result.
    - Ex [1] 994 x 989 =\_\_\_\_\_.
      - a) 1000 994 = 6.
      - b) 1000 989 = 11.
      - c)  $6 \ge 11 = 66$ . Write 066 to take up 3 place values.
      - d) 994 11 = 983. Write 983. (You can also use 989 6 = 983)
      - e) The answer is 983066.
    - Ex [2]  $988^2 =$ \_\_\_\_\_.
      - a) 1000 988 = 12.
      - b) 12 x 12 = 144. Write 144.
      - c) 988 12 = 976. Write 976.
      - d) The answer is 976144.