Squaring A Number In The Range (90 - 99):

A. This method comes from algebra:

$$(100 - a)^2 = 100 \times [(100 - a) - a] + a^2$$

- B. Using numbers instead of variables we get the following:
 - 1. Find the difference between the number and 100.
 - 2. Square the result of step 1 and write it down (make sure it takes up 2 place values).
 - 3. Subtract the result of step 1 from the original number and write it down.

Ex [1]
$$97^2 =$$
_____.

- a) 100 97 = 3.
- b) $3^2 = 9$. Write 09 to take up 2 place values.
- c) 97 3 = 94. Write 94.
- d) The answer is 9409.

Ex [2]
$$92^2 =$$
_____.

- a) 100 92 = 8.
- b) $8^2 = 64$. Write 64.
- c) 92 8 = 84. Write 84.
- d) The answer is 8464.