Squaring A Number Ending In 6:

A. From algebra we can also use:

$$(10a - 4)^2 = 100(a)(a-1) + 10(2a + 1) + 6$$

- B. Using numbers instead of variables we get the following:
 - 1. Write down 6.
 - Add 1 to the ten's digit, multiply by 2, then add 1. Write this number down. Carry if necessary.
 - 3. Multiply the number in the ten's digit by that number plus 1. Write this result.
 - Ex [1] $66^2 =$ _____.
 - a) Write down 6.
 - b) $2 \ge (6+1) + 1 = 15$. Write 5, carry *1.
 - c) $6 \ge (6+1) = 42 + *1 = 43$. Write 43.
 - d) The answer is 4356.

Ex [2]
$$86^2 =$$
____.

- a) Write down 6.
- b) $2 \ge (8+1) + 1 = 19$. Write 9, carry *1.
- c) $8 \ge (8+1) = 72 + *1 = 73$. Write 73.
- d) The answer is 7396.