

81 + 11 <u>=92</u>	108 + 3 <u>=111</u>	36
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$$\therefore (96)^2 = 9216$$

Steps involved in solving column method:

Step 1: Make three columns headed by a^2 , $2 \times a \times b$ and b^2 respectively. Write the values of a^2 , $2 \times a \times b$ and b^2 in columns respectively.

Step 2: In third column underline the unit digits of b^2 i.e. 36 and carry the tens digit of it i.e. 3 to the second column and add it to the value of second column i.e. $2 \times a \times b$ and it will become 111.

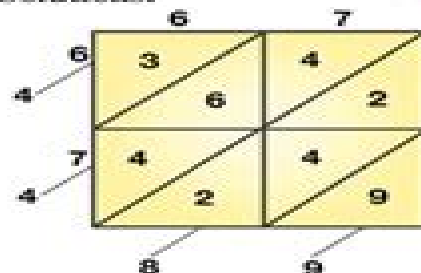
Step 3: In column second, underline the unit digit of the number obtained in second step i.e. 1 and carry over the ten digit of it to first column and add it to the value of a^2 i.e. $81 + 11 = 92$

Step 4: Now underline the number obtained in third step in first column i.e. 92. The underlined digits give the required square number.

Find the value of each of the following, using the diagonal method.

5. $(67)^2$
6. $(86)^2$
7. $(137)^2$
8. $(256)^2$

5. Solutions:



Given number = 67

Steps involved in solving diagonal method:

Step 1: The given number contains two digits. So, draw a square and divide it into 4 sub squares as shown above. Write down the digits 6 and 7 vertically, as shown in above.

Step 2: Multiply each digit on the left of the square with each digit on the top, one by one. Write the product in the corresponding subsequence.

If the product is a two-digit number, write the tens digit above the diagonal and the units digit below the diagonal.

Step 3: Starting below the lowest diagonal, sum the digits diagonally.

If the sum is a two-digit number, underline the unit digit and carry over the tens digit to the next diagonal.

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