

Adding Squared Numbers In The Form: $a^2 + (2a)^2$

A. This method is very easy since from algebra we know:

$$a^2 + (2a)^2 = 5a^2$$

B. Therefore, you square the smaller number, then [multiply by 5](#) for the answer

Ex [1] $11^2 + 22^2 =$ _____.

- a) $11^2 = 121$.
- b) $121 \times 5 = 605$.
- c) The answer is 605.

Ex [2] $25^2 + 50^2 =$ _____.

- a) $25^2 = 625$. See [Squaring Numbers Ending in 5](#).
- b) $625 \times 5 = 3125$.
- c) The answer is 3125.