Difference of Two Squares

We know the expansion rule:

We can extend this to arithmetic multiplications to help solve difficult product questions easily.

Example: Let us first look at a simple multiplication say

This may be written

This simplifies to give:

Answer 63.

You will need to know your square table to make good use of this technique.

Example 2

Answer: 9999

Try these

1. 49 x 51
2. 501 x 499
3. 98 x 102
4. 105 x 95
5. 90 x 110
6. 63 x 77
7. 213 x 187
8. 550 x 450