


FOIL Method


FOIL stands for:

First - Multiply the first term in each set of parentheses
Outer - Multiply the outer term in each set of parentheses
Inners - Multiply the inner term in each set of parentheses
Last - Multiply the last term in each set of parentheses


Now let's give it a try in our problem. We'll start by multiplying the first term in each set of parentheses and then marking down the answer below the problem.


$$(3 + 7x)(6 + 2x)$$
$$18$$

Now we will multiply the outer terms and again mark down the answer below the problem.


$$(3 + 7x)(6 + 2x)$$
$$18 + 6x$$

And the Innings.


$$(3 + 7x)(6 + 2x)$$
$$18 + 6x + 42x$$

And finally the last terms.