**5.3 – Adding Polynomials**

We can use algebra tiles to help us add polynomials.

Ex. 1:

Can you see how to add them algebraically – in other words, without using algebra tiles? We simply \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the like terms. We can set this up either horizontally or vertically.

Ex. 2: Add the following polynomials algebraically.



|  |  |
| --- | --- |
| Method 1 - Horizontally | Method 2 - Vertically |
|  |  |



Ex. 3:

1. Write a simplified polynomial for the perimeter of this rectangle:
2. What is the perimeter if ?
3. What is the perimeter if ?