Alge-Tiles

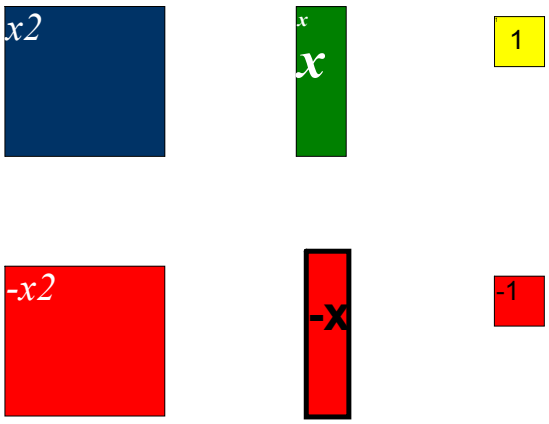
For all Alge-Tile work it is essential to remember that

means minus RED

And

Any other colour means plus.

Variables

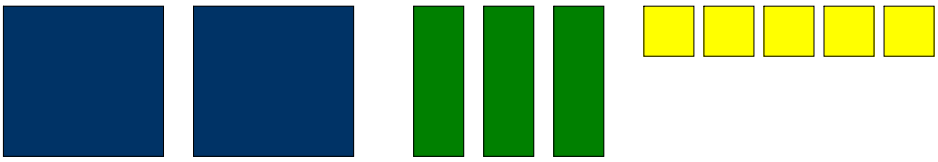


Read only!

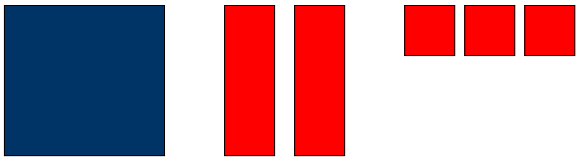
Example

Represent the following trinomials using alge-tiles:

1. $2x^2+3x+5$



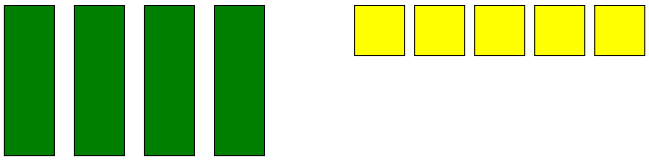
2. x^2-2x-3



Section 1. Like Terms

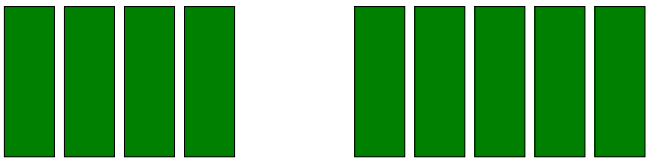
Read only!

Example 1. 4x+5



Can any of these be added ? Explain your answer

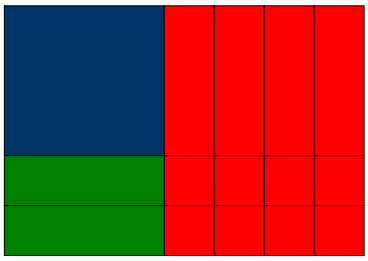
Example 2. 4x+5x



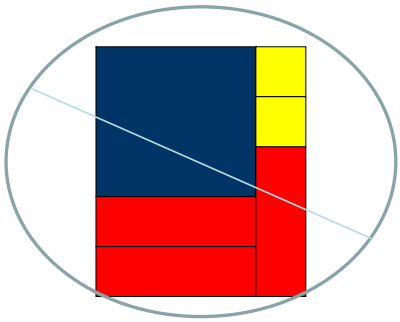
Can any of these be added ? Explain your answer

Multiplying

When multiplying the tiles are used to represent **dimensions** of a rectangle in order to determine the **area**. You must create a rectangle and have no pieces left over. Tiles must be placed next to tiles of matching lengths.



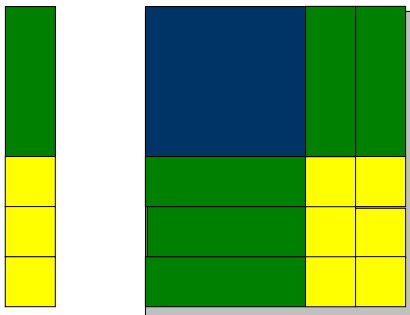
Correct rectangle with proper Use of tiles



Incorrect rectangle as yellow and blue are not equal lengths.

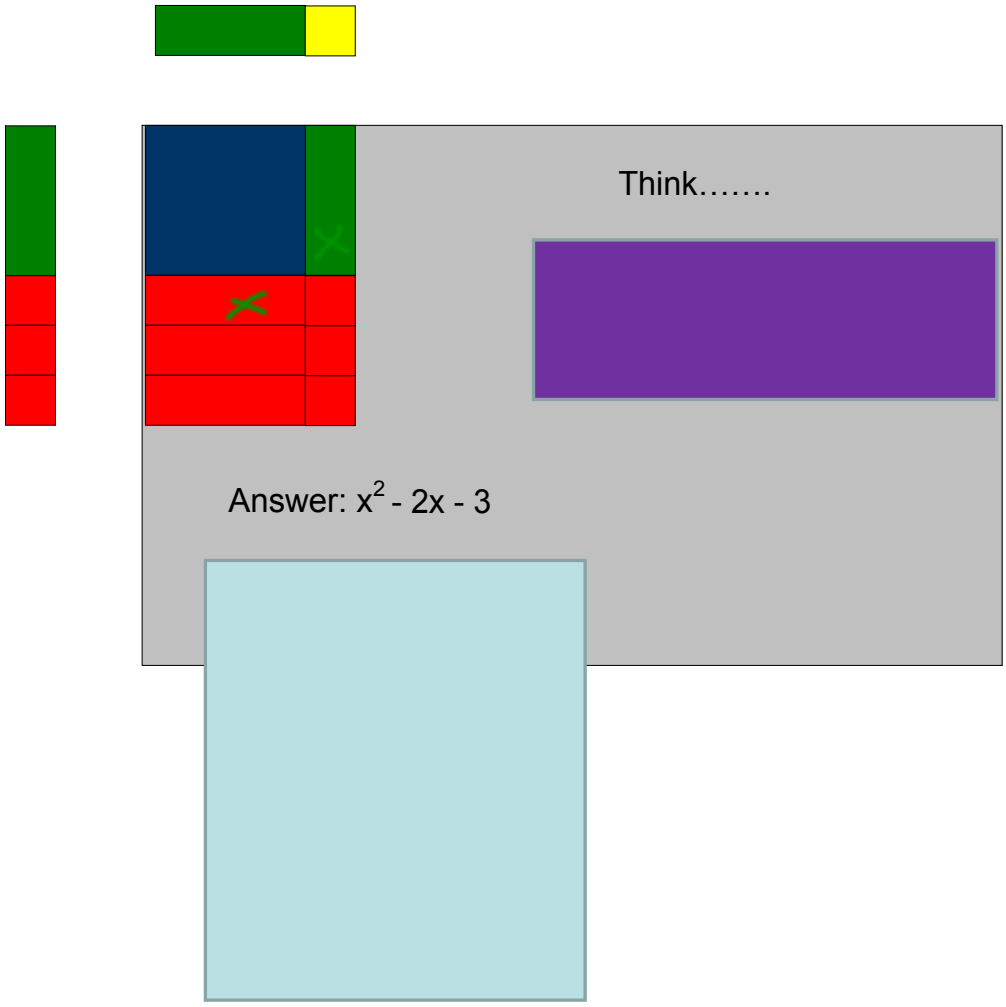
Section 4. Multiplying in algebra

Example 1. Multiply (x+2)(x+3)

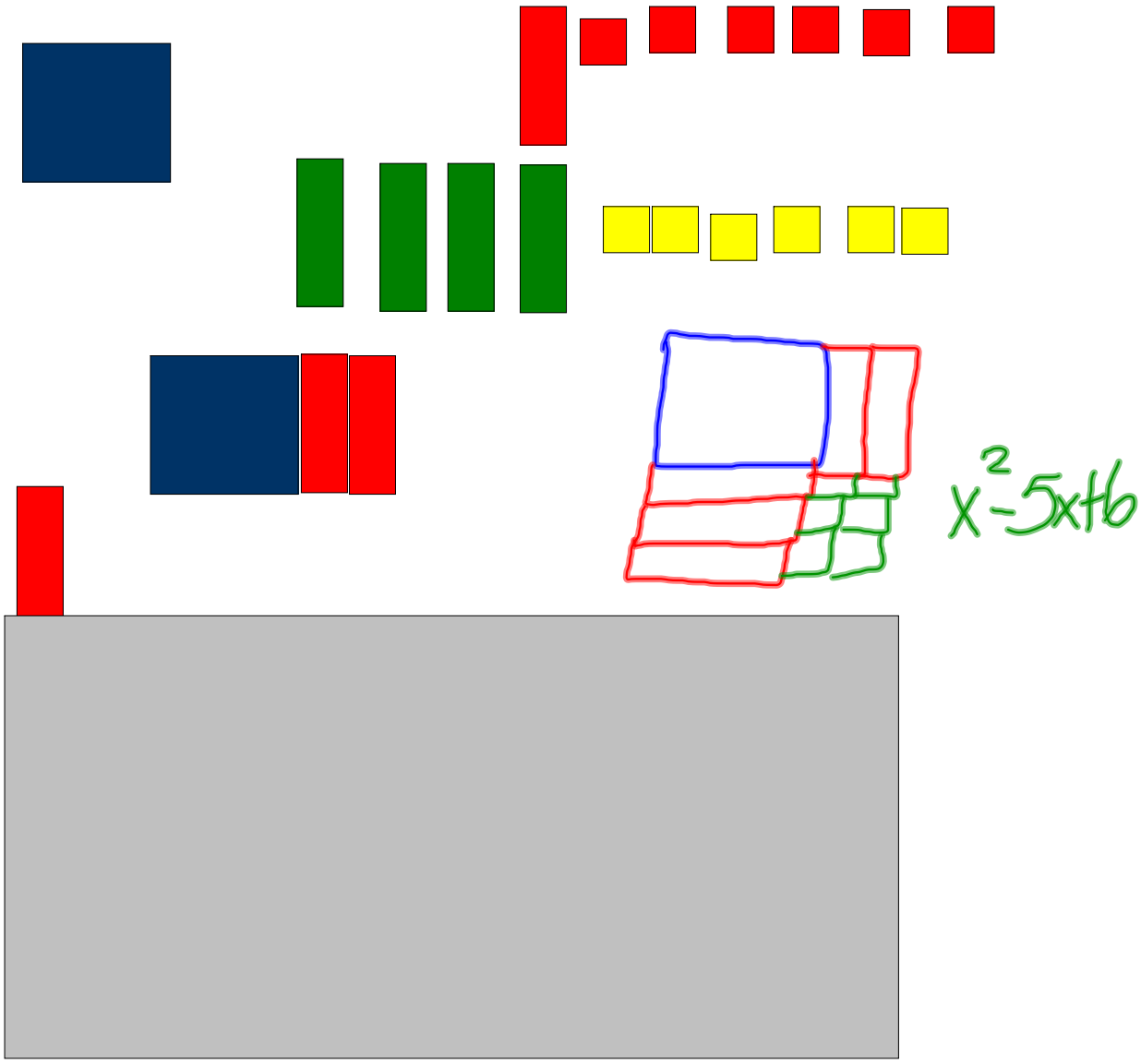


Section 4. Multiplying in algebra

Example 2. Multiply (x+1)(x-3)



Practice (x - 2)(x - 3)



Practice

Multiply the following:

1.$(x+4)(x+3)$

2.$(x-1)(x+2)$

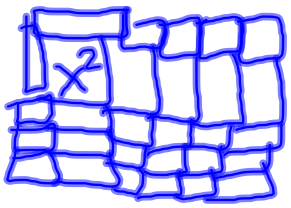
3.$(x-4)(x-2)$

4.$(x-1)(x-3)$

5.$(x-1)(x-1)$

6.$(x-2)^2$

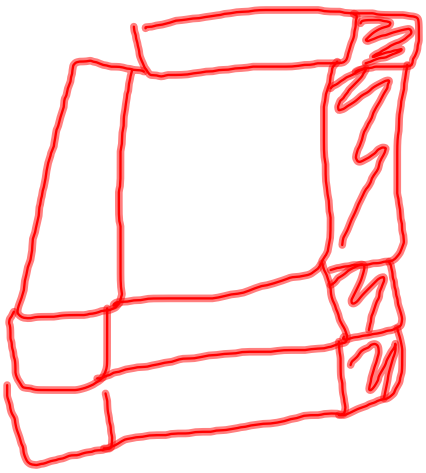
1. $(x+4)(x+3)$



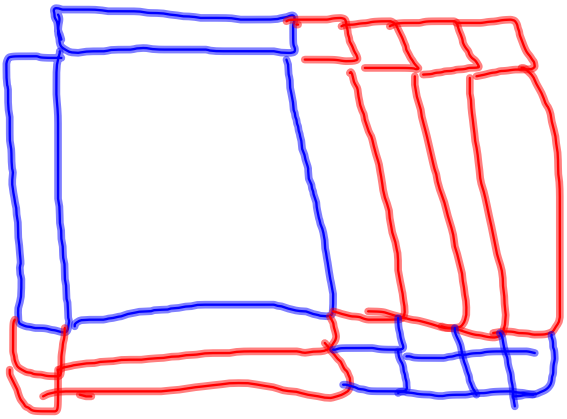
$x^2+7x+12$

$(x-1)(x+2)$

x^2+x-2

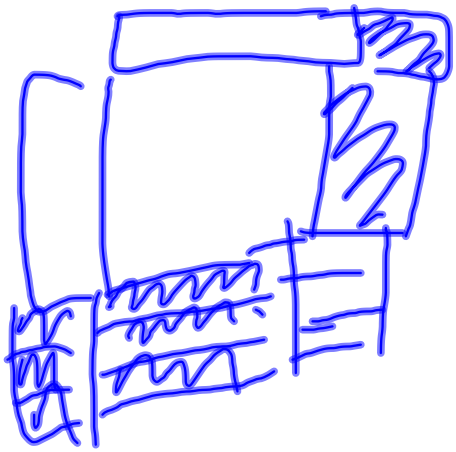


3) $(x-4)(x-2)$



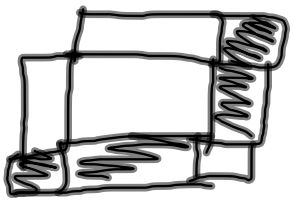
$x^2 - 6x + 8$

$(x-1)(x-3)$



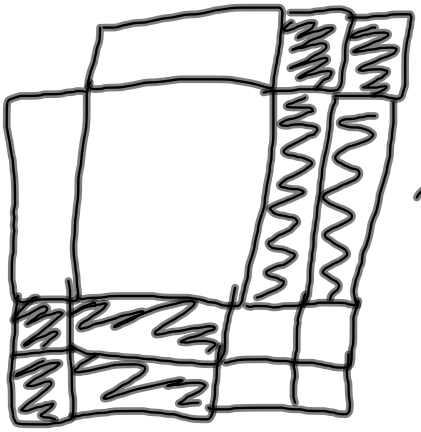
x^2-4x+3

$(x-1)(x-1)$



x^2-2x+1

$(x-2)^2$



x^2-4x+4