

Factoring Trinomials (Three Terms) Checkerboard Method

1. Take out a **GCF** if there is one

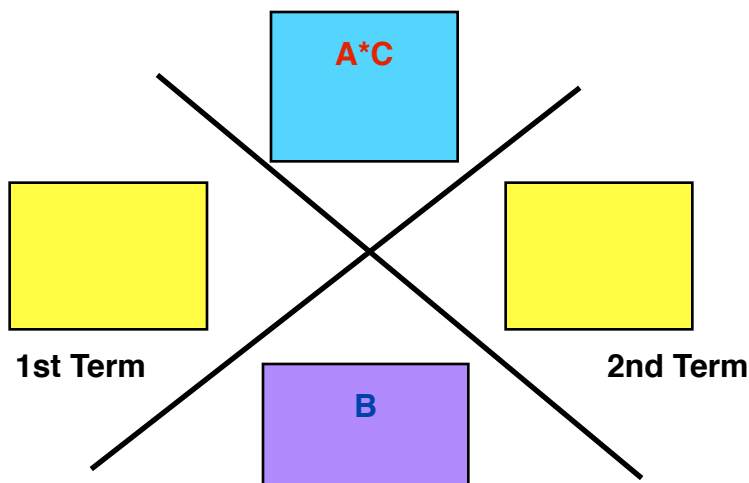
2. Find your three pieces to the problem

Ax^2	$+ Bx$	$+ C$

3. Fill in your **Ax^2** to the middle box and **C** to the last box

CHECK <div style="border: 1px solid black; width: 40px; height: 40px; background-color: #6aa84f; margin: 5px auto;"></div>	↓ GCF	↓ GCF
→ GCF	Ax^2	One Term
→ GCF	Other term	C

4. Multiply your **$A * C$** and then find two numbers that **multiply** to give you (**$A * C$**) and **add** to give you (**B**)



5. After finding the two values, plug them into the checkerboard in the **yellow squares** with their **sign (+/-)** and **variable**

6. Find the GCF of the two boxes in each direction (going down & across) ****if there is no GCF rearrange your yellow terms**

7. Now **Check** each box by seeing if the two GCF's multiply to give you what is in the four lower boxes (**blue, yellow and purple**). ****Make sure to pay attention to your signs**

8. If all four check out, then your answer is the GCF terms as a binomial (across top) multiplied by the GCF terms as a binomial (going down left side)

9. Final check by multiplying ****Do not forget to add the GCF from step 1 if there was one**

Scratch Work

2nd Term