Name: _____ Date: _____ Block: _____

Factoring Trinomials When A ≠ 1

Bottoms Up Method	
Steps	**Example**
1: Always look for a GCF!	$3x^2 - 23x - 8$
2: Multiply a*c and put it at the top of the X. Put b at the bottom of the X.	
3. Factor as if a=1	
4. Divide constants by a.	
5. REDUCE if possible, if not BOTTOMS UP!	
6. Check your answers.	

Factor: $2x^2 - 11x = -12$
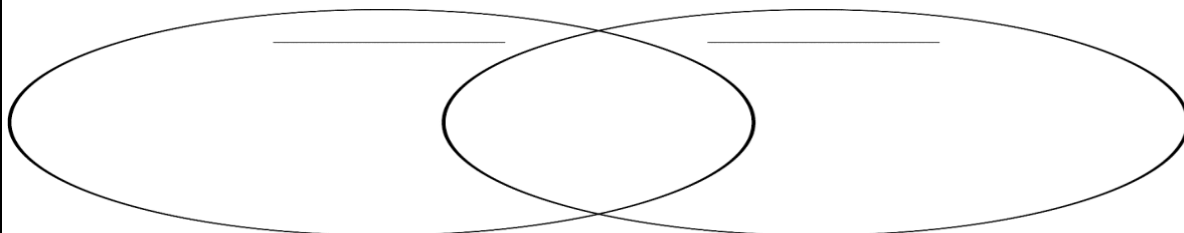
Factor: $6x^2 - 9x = 60$

Collaborate: $6x^2 = x + 2$

Solo: $36x^2 + 33x + 6$

Stop & Jot:
What are the differences and similarities for factoring trinomials that have A = 1 and A ≠ 1?

_____   _____

Practice

1. $3x^2 + 7x + 2$

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

3. $3x^2 - 16x + 5$

4. $7x^2 - 9x + 2$

5. $6x^2 + 5x + 1$

6. $8x^2 - 9x + 1$

7. $10x^2 + 17x + 3$

8. $9x^2 - 9x + 2$

9. $5x^2 + 11x + 6$

10. $3x^2 + 2x - 1$

11. $5x^2 - 4x - 1$

12. $2x^2 + 5x - 3$

13. $7x^2 - 13x - 2$

14. $3x^2 + 14x - 5$

15. $4x^2 - 11x + 7$