NOTES: FACTOR A BASIC TRINOMIAL
Day 2

Trinomial when a = 1

$$ax^2 + bx + c$$

To factor a basic trinomial, find _____ of _____ that have a _____ of _____.

Examples: Factor the following trinomials.

Always look for a GCF first!

1. $x^2 + 8x + 7$	**2.** $x^2 + 16x + 64$	**3.** $x^2 + 11x + 18$
4. $x^2 + 10x + 24$	**5.** $x^2 - 11x + 24$	**6.** $x^2 - 16x + 48$
7. $x^2 - 17x + 72$	**8.** $x^2 - 13x + 40$	**9.** $x^2 - x - 90$
10. $x^2 - x - 56$	**11.** $x^2 + 7x - 18$	**12.** $x^2 + 10x - 39$
13. $2x^2 + 2x - 4$	**14.** $3x^2 - 15x + 12$	**15.** $2x^2 + 10x + 8$

Name: _____

Date: _____

Period: _____

A.___ FACTOR A BASIC TRINOMIAL Day 2

Factor the following trinomials.

Always look for a GCF first!

1. $x^2 + 18x + 56$

2. $x^2 + 6x + 8$

3. $x^2 + 9x + 18$

4. $x^2 - 10x + 9$

5. $x^2 - 4x + 24$

6. $x^2 - 13x + 40$

7. $x^2 + 2x - 24$

8. $x^2 + 4x - 12$

9. $x^2 - 4x - 45$

10. $x^2 - x - 42$

11. $x^2 + 3x - 54$

12. $x^2 - 15x - 54$

13. $5x^2 + 30x - 35$

14. $2x^2 + 22x + 60$

15. $4x^3 - 4x^2 - 8x$

16. $6x^2 - 66x + 60$

17. $3x^4 - 3x^3 - 36x^2$

18. $3x^2 + 21x + 30$