Name: _____ Date: _____ Period: _____

3.1 Solving Quadratics by Factoring CYU DAY ONE

☑ *Use when you get it right all by yourself*

S *Use when you did it all by yourself, but made a silly mistake*

H *Use when you could do it alone with a little help from teacher or peer*

G *Use when you completed the problem in a group*

X *Use when a question was attempted but wrong (get help)*

N *Use when a question was not even attempted*

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Solving Quadratics by factoring	1 - 4	5 – 8, 11, 14	9, 10, 12, 13, 15, 16
a = 1	5 - 8	11, 14	
a not 1		9, 10	12, 13, 15 - 22
Already as factors	1 - 4		

I. First way: Factoring. Solve each equation by factoring. Show all work to earn full credit.

1. $(k + 1)(k – 5) = 0$
2. $(a + 1)(a + 2) = 0$
3. $(4m + 5)(m + 1) = 0$
4. $(2v + 3)(4v + 3) = 0$
5. $x^2 – 11x + 19 = - 5$
6. $n^2 + 7n + 15 = 5$
7. $p^2 – 10p + 22 = - 2$
8. $q^2 + 3q – 12 = 6$
9. $6j^2 – 18j – 18 = 6$
10. $7r^2 – 14r = - 7$

11. $n^2 + 8n = -15$

12. $5r^2 - 44r + 120 = -30 + 11r$

13. $-4k^2 - 8k - 3 = -3 - 5k^2$

14. $b^2 + 5b - 35 = 3b$

15. $3w^2 - 16w - 7 = 5$

16. $6c^2 - 13c + 3 = -3$

17. $7d^2 - 6d + 3 = 3$

18. $35a^2 - 22a + 7 = 4$

19. $7x^2 + 2x = 0$

20. $10b^2 = 27b - 18$

21. $8x^2 + 21 = -59x$

22. $15a^2 - 3a = 3 - 7a$

CYU Reflection: *How far can you go: basic, intermediate, or advanced?*

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.