Solving Quadratics by Factoring CYU

☑ 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)

NUse 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		

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

1.
$$(k+1)(k-5)=0$$

2.
$$(a+1)(a+2)=0$$

$$a = -1, -2$$

3.
$$(4m + 5)(m + 1) = 0$$

$$M = -\frac{5}{4}, -1$$

4.
$$(2v+3)(4v+3)=0$$

$$V = -\frac{3}{2} \cdot -\frac{3}{4}$$

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

$$N = -5, -3$$

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

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

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

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

$$W = -\frac{2}{3}, 6$$

$$16.6c^2 - 13c + 3 = -3$$

$$C = \frac{2}{3}, \frac{3}{2}$$

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

$$d = \frac{6}{7}, 0$$

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

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

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

$$21.8x^2 + 21 = -59x$$

$$X = \frac{-3}{8}, -7$$

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

$$a = \frac{1}{3}, -\frac{3}{5}$$

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.

