Name Key Date _____ Pd __

CYU 2.3 Solving Linear Equations 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

Solve. Show all work to earn full credit or give a written explanation if you feel no work is required.

1. $-3x + 1 = -2(4x + 2)$

$-1 = x$

2. $15x - 5 = 7 + 12x$

$4 = x$

3. $-(5x - 10) = 5x$

$x = 1$

4. $3(2 - 5x) + 4(6x) = 12$

$x = \frac{2}{3}$

5. $-4(n - 4) - 23 = -7$

$n = 0$

6. $5 - 6(2 + b) = b - 14$

$b = 1$

7. $6y - 8 = -6 + 3y + 13$

$y = 5$

8. $-7n + 5 = 8n - 10$

$n = 1$

9. $\frac{4}{5}x - \frac{8}{5} = -\frac{16}{5}$

$x = -2$

10. $\frac{2}{9}x - \frac{1}{3} = 1$

$x = 6$

11. $0.40x + 0.06(30) = 9.8$

$x = 20$

12. $\frac{3(y+3)}{5} = 2y + 6$

$y = -3$

13. $\frac{5}{2}x - 1 = x + \frac{1}{4}$

$x = \frac{5}{6}$

14. $0.60(z - 300) + 0.05z = 0.70z - 205$

$z = 500$

15. $14x + 7 = 7(2x + 1)$

$\mathbb{R}$ or ∞

all real #'s

16. $\frac{x}{3} - 2 = \frac{x}{3}$

$\emptyset$ or $\{\}$

17. $2(x - 5) = 2x + 10$

$\emptyset$ or $\{\}$

18. $-5(4y - 3) + 2 = -20y + 17$

$\mathbb{R}$ or ∞

all real #'s

Write each phrase as an algebraic expression. Use x for the unknown number.

19. Three times a number

$3x$

20. The difference of 8 and twice a number

$8 - 2x$

21. The quotient of -12 and the difference of a number and 3

$$\frac{-12}{x-3}$$

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.