Name _____ Date _____ Pd __

CYU 2.3 Solving Linear Equations DAY ONE

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Solving equations	1 – 18	1 – 18	1 - 18
Translating phrases	19 – 21	19 – 21	19 - 21

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Write each phrase as an algebraic expression. Use x for the unknown number.
19. Three times a number

20. The difference of 8 and twice a number

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

| 1   2 | 3   4   5 | 6   7 | 8 |
| Basic | Intermediate | Advanced | Solved ALL! |