Module: Solving Linear Equations Name:
Lesson: Solving Equations with the Date:
    Variable on Both Sides Period:

Homework: Solve each equation. Then check your solution.

1. $6x + 7 = 8x - 13$

2. $\dfrac{3n - 2}{5} = \dfrac{7}{10}$

3. $13.7b - 6.5 = -2.3b + 8.3$

4. $\dfrac{3}{2}y - y = 4 + \dfrac{1}{2}y$

5. $-7(x - 3) = -4$

6. $28 - 2.2y = 11.6y + 262.6$

7. $7 - 3x = x - 4(2 + x)$

8. $6(y + 2) - 4 = -10$

9. $-8(4 + 9x) = 7(-2 - 11x)$

10. $4(2a - 8) = \dfrac{1}{7}(49a + 70)$

Define a variable, write an equation, and solve each problem. Then check your solution.

11. Three times the greatest of three consecutive even integers exceeds twice the least by 38. Find the integers.

12. The difference of two numbers is 12. Two fifths of the greater number is six more than one third of the lesser number. Find both numbers.