Module: Solving Linear Equations

Lesson: Solving Equations with the
            Variable on Both Sides

Name:

Date:

Period:

Classwork: Solve each equation. Then check your solution.

1. $17 + 2n = 21 + 2n$

2. $\dfrac{7 + 3t}{4} = -\dfrac{t}{8}$

3. $\dfrac{3}{4}n + 16 = 2 - \dfrac{1}{8}n$

4. $18 - 3.8x = 7.36 - 1.9x$

5. $4(x - 2) = 4x$

6. $1.03x - 4 = \text{-}2.15x + 8.72$

7. $6 = 3 + 5(y - 2)$

8. $5 - \dfrac{1}{2}(b - 6) = 4$

9. $2(x - 3) + 5 = 3(x - 1)$

10. $\text{-}3(2n - 5) = \dfrac{1}{2}(\text{-}12n + 30)$

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

11. One fifth of a number plus five times that number is equal to seven times the number less 18. Find the number.