Lesson 25T ~ The Distributive Property

Name_____ Period_____ Date_____

Use the Distributive Property to rewrite each expression without parentheses.

1. $4(x + 3) =$ _____ + _____

2. $3(x - 5) =$ _____ − _____

3. $-5(m - 8)$

4. $4(2x + 3)$

5. $-6(1 + 2p)$

6. $\frac{1}{3}(9x - 6)$

Solve each equation for the variable. Check your solution.

7. $4(x + 8) = 20$

   | Distribute first, then rewrite the equation and solve. |

   _____ + _____ = 20

8. $5(x - 2) = -15$

   Check your answer:

   Check your answer:

9. $12 = 3(x - 7)$

10. $3(2x - 1) = 21$

   Check your answer:

   Check your answer:

Solve each equation for the variable. Check your solution

11. $\frac{1}{2}(8x+10) = 13$

12. $20 = -2(x-5)$

Check your answer:

Check your answer:

13. Armondo has kept a food journal of the last 8 days. He has eaten 100 calories less than his normal intake by not eating a cookie after dinner each night. He calculated that he has eaten 20,000 calories over the last 8 days.

    a. The equation $8(x-100) = 20000$ represents this situation. What does x represent in the equation?

    b. Solve the equation and determine what Armondo's normal calorie intake was before he stopped eating cookies.