Name: _____

Section 9.3 Extra Practice

1. Solve each inequality.

    a) $3x - 5 > 2x + 4$ **b)** $4x + 3.2 < 2x + 1.4$

    c) $0.75x + 8 \leq 0.5\,(3x - 5)$ **d)** $6(5 - x) \leq 7(x - 5)$

2. Solve. Fill in the given number line to represent each solution.

    a) $9x + 4 \leq 5x + 12$ **b)** $3(2x - 2) > 2(x - 1)$

3. Verify each solution.

a) $\dfrac{x}{2} - 2 \leq 6$; **$x \leq 16$**

b) $2x - 9 > 5x + 6$; **$x < -5$**

4. Andrew wants to order pizza, and he can spend *up to $15.00*. A large plain cheese pizza costs $11.00, plus an additional $0.75 for each topping. How many toppings can Andrew get on his pizza?

a) Write an inequality to model the situation.

b) Solve and verify the inequality.

c) What's the most amount of toppings can he get?

5. The following are the wages for two summer jobs building grain bins.
Job A: $60 per bin plus $120 per day
Job B: $75 per bin plus $90 per day
Write and solve an inequality to determine how many grain bins you would need to build each day to make *Job B pay more than Job A*.
Give your answer algebraically, and in a sentence.