**Foundations of Algebra Unit 5 – Day 11 Practice**

**Write an inequality that models the situation. You do NOT have to solve!**

1. Eight times the difference of w and 7 is greater than or equal to -2.

2. In order to ride the Triple Threat Roller Coaster, a rider must be at least 42 inches tall.

**Write an inequality that can be used to model the following problem. Then, use your equation or inequality to SOLVE the problem.**

3. Suppose a DVD costs $19 and a CD costs $14. How many CDs can you buy if you have at most $65 to spend and you bought 1 DVD?

*Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

4. Joan needed $100 to buy a graphing calculator for her math class. Her neighbor will pay her $5 per hour to babysit and her Father gave her $10 for mowing the lawn. What is the minimum amount of hours she will need to babysit in order for her to buy her calculator?

*Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

5. The cost of a gallon of orange juice is $3.50. What is the maximum number of containers you can buy for $15?

*Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

6. Skate Land charges a $50 flat fee for a birthday party rental and $5.50 for each person. Joann has no more than $100 to spend on the birthday party. How many people can Joann invite to her birthday party without exceeding her limit?

*Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

7. Mrs. Scott decided that she would spend no more than $120 to buy a jacket and skirt. If the price of the jacket was $20 more than 3 times the prices of the skirt, find the highest possible price of the skirt.

*Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

8. Stephanie weights 3 times as much as Rachel. Both weights are whole numbers and the sum of their weights is at most 160 pounds. Find the greatest possible weight for each girl.

*Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*