Math 7 Period ______ 7.6.14 Homework Set Name_____ Date_____

1. The solution to 5 - 3x > 35 is either x > -10 or -10 > x. Which solution is correct? Explain how you know.

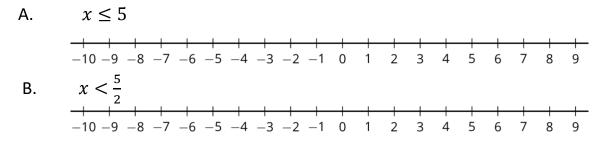
2. The school band director determined from past experience that if they charge t dollars for a ticket to the concert, they can expect attendance of 1000 - 50t. The director used this model to figure out that the ticket price needs to be \$8 or greater in order for at least 600 to attend. Do you agree with this claim? Why or why not?

3. Which inequality is true when the value of x is -3? (from Unit 6, Lesson 13)

a.	-x - 6 < -3.5	С.	-x - 6 > -3.5

b. -x - 6 > 3.5 d. x - 6 > -3.5

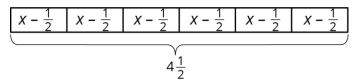
4. Draw the solution set for each of the following inequalities. (from Unit 6, Lesson 13)



5. Write an equation that matches the tape diagram. (from Unit 6, Lesson 3)

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19	x	x	x	x	x	X	x

6. A baker wants to reduce the amount of sugar in his cake recipes. He decides to reduce the amount used in 1 cake by $\frac{1}{2}$ cup. He then uses $4\frac{1}{2}$ cups of sugar to bake 6 cakes. (from Unit 6, Lesson 2)



- A. Describe how the tape diagram represents the story.
- B. Solve the equation to show how much sugar was originally in each cake recipe?