

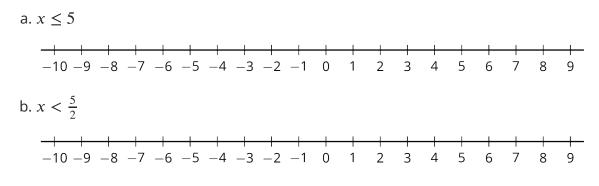
## **Lesson 4 Practice Problems**

- 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?

A. 
$$-x - 6 < -3.5$$
  
B.  $-x - 6 > 3.5$   
C.  $-x - 6 > -3.5$   
D.  $x - 6 > -3.5$ 

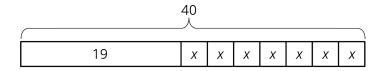
(From Unit 4, Lesson 3.)

## 4. Draw the solution set for each of the following inequalities.



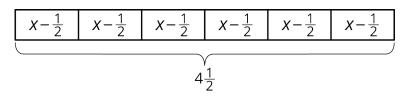
<sup>(</sup>From Unit 4, Lesson 3.)

5. Write three different equations that match the tape diagram.



(From Unit 3, Lesson 3.)

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.



- a. Describe how the tape diagram represents the story.
- b. How much sugar was originally in each cake recipe?

(From Unit 3, Lesson 2.)