Name \_\_\_\_\_\_ Date \_\_\_\_\_



## Skills Maintenance

Inequalities

## Activity 1

Select the inequality that best represents each of the word statements.

- 1. The temperature will be no higher than 50 today. If *t* is the temperature:
  - (a) t > 50
  - **(b)** t < 50
  - (c)  $t \le 50$
- 2. Melissa is younger than Michael. Michael is 10. If *m* is Melissa's age:
  - (a) m < 10
  - **(b)** m > 10
  - (c)  $m \ge 10$
- 3. It takes Laci at least 20 minutes to get ready for school in the morning. If t is the time it takes Laci to get ready:
  - (a) t > 20
  - **(b)**  $t \ge 20$
  - (c)  $t \le 20$
- **4.** Jamal scored more goals than anyone on the team this year. He scored 15. Micah scored the second highest number of goals. If *m* represents the number of goals that Micah scored:
  - (a)  $m \le 15$
  - **(b)** m < 15
  - (c) m > 15

Name	Date	



## %÷ Apply Skills

Logic and Number Lines

## **Activity 1**

Fill in the inequality symbol that represents the inequalities. Then fill in two number lines that show the logic of the inequalities.

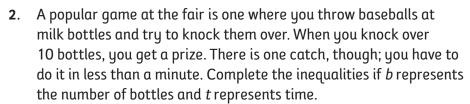
1.	Amusing Amusements is a park consisting only of roller coasters.
	The largest roller coaster in the park, the Maniac, has the
	requirement that you must be at least 12 years old and over 5 feet
	tall. Complete the inequalities if A represents age and H represents
	height.

A \_\_\_\_\_ 12 years old

*H*\_\_\_\_\_\_ 5 feet tall

Number line showing age requirement:

Number line showing height requirement:



*b* \_\_\_\_\_ 10 bottles

t\_\_\_\_\_\_ 1 minute

Number line showing the number of bottles you must knock down:

Number line showing the time restriction:



Name \_\_\_\_\_ Date \_\_\_\_ 3. In order to get a driver's license in a particular state, you must be at least 16 years of age and you must complete at least 50 hours of certified practice driving. Complete the inequalities if a represents the age requirement and h represents the number of hours of practice driving. *a* \_\_\_\_\_ 16 years old *h* \_\_\_\_\_ 50 hours Number line showing age requirement: Number line showing the requirement for practice driving: 4. A person who rides a horse for a living is called a jockey. There are strict height and weight requirements for jockeys. You must be no more than 62 inches tall and you must weigh less than 120 pounds. Complete the inequalities if h represents the height requirement and wrepresents the weight requirement. h \_\_\_\_\_\_ 62 inches *w*\_\_\_\_\_ 120 pounds Number line showing height requirement:

Number line showing weight requirement: