

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

**Skills Maintenance****Inequalities****Activity 1**

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

- The temperature will be no higher than 50 today. If  $t$  is the temperature:
  - $t > 50$
  - $t < 50$
  - $t \leq 50$
- Melissa is younger than Michael. Michael is 10. If  $m$  is Melissa's age:
  - $m < 10$
  - $m > 10$
  - $m \geq 10$
- 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:
  - $t > 20$
  - $t \geq 20$
  - $t \leq 20$
- 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:
  - $m \leq 15$
  - $m < 15$
  - $m > 15$



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**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.

- 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:



- A popular game at the fair is one where you throw baseballs at milk bottles and try to knock them over. When you knock over 10 bottles, you get a prize. There is one catch, though; you have to do it in less than a minute. Complete the inequalities if  $b$  represents the number of bottles and  $t$  represents time.

$b$  \_\_\_\_\_ 10 bottles

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

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



Number line showing the time restriction:



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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  $w$  represents the weight requirement.

$h$  \_\_\_\_\_ 62 inches

$w$  \_\_\_\_\_ 120 pounds

Number line showing height requirement:



Number line showing weight requirement:



### Reinforce Understanding

Use the mBook *Study Guide* to review lesson concepts.