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## Reteach: Write and Graph Inequalities

## Example 1

Write an inequality for the sentence.
Fewer than 70 students attended the last dance.

| Words | Fewer than 70 students attended the last dance. |
| :--- | :--- |
| Variable | Let $s=$ the number of students. |
| Inequality | $s<70$ |

## Example 2

Graph each inequality on a number line.
a. $x>8$


The open dot means 8 does not make the sentence true. The graph to the right means that numbers greater than 8 make the sentence true.
b. $x \leq 8$


The closed dot means 8 does make the sentence true. The graph to the left means that numbers less than 8 make the sentence true.

## Exercises

Write an inequality for each sentence.

1. The maximum height $h$ is 45 feet.
2. The adult male elephants $m$ all weighed over 12,000 pounds.
3. The maximum fee $f$ for any student is $\$ 15$.
4. You must be at least 38 inches tall to ride the roller coaster.

Graph each inequality on the number line.
5. $x>7$

6. $s \geq 5$

7. $m<2$

8. $f \leq 6$

9. $r>11$

10. $n \geq 3$


