

Write and Graph Inequalities

Guided Practice

Write an inequality for each sentence. (Examples 1–3)

1. The movie will be no more than 90 minutes in length.
2. The mountain is at least 985 feet tall.

Graph each inequality on a number line. (Examples 4 and 5)

3. $a \leq 6$

4. $b > 4$

5. Tasha can spend no more than \$40 on new boots. Write and graph an inequality to describe how much she can spend. (Example 5)

Independent Practice

Write an inequality for each sentence. (Examples 1–3)


1. Swim practice will be no more than 35 laps.
2. Kevin ran for less than 5 miles.
3. The occupancy of the room must be less than 437 people.

Graph each inequality on a number line. (Examples 4 and 5)

4. $f > 1$

5. $x \leq 5$

6. $y \geq 4$

 A rewritable compact disc must have less than 20 songs on it. Write and graph an inequality to describe how many songs can be on the disc. (Example 6)

Write an inequality for each sentence.

13. You cannot spend more than 50 dollars. $s \leq 50$
Let s represent what you can spend. Cannot spend more means you can spend less than or equal to 50 dollars.

14. More than 800 fans attended the opening soccer game.

15. The heavyweight division is greater than 200 pounds.


Graph each inequality on a number line.

16. $g < 6$

17. $z > 18$

18. $h \geq 3$

19. A colt is a male horse that is younger than four years old. Write and graph an inequality to describe the possible ages of a colt.

20.  **Use Math Tools** The graph shows the number of students who participate in some of the activities offered at Crestview Middle School.

a. Which activities have more than 20 participants? at least 20? fewer than 19?

b. Write an inequality comparing the number of orchestra participants and the number of tennis participants.

