Name _____ Date _____

LESSON 6.1

Practice A

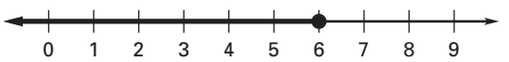
For use with pages 356–361

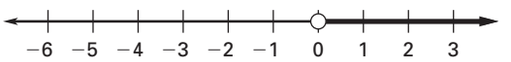
Write a verbal phrase that describes the inequality.

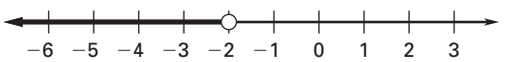
1. $x < 5$ **2.** $x > -4$ **3.** $3 \geq x$ **4.** $-7 \leq x$

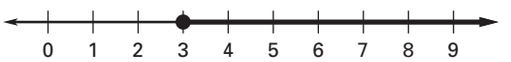
5. $x \geq 0$ **6.** $-2 > x$ **7.** $x \leq 12$ **8.** $-1 > x$

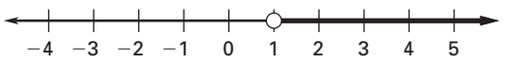
Write an inequality that is represented by the graph.

9. 

10. 

11. 

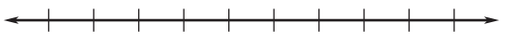
12. 

13. 

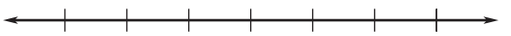
14. 

Sketch a graph of the inequality.

15. $x \geq 6$



16. $p < -1$



17. $n \geq 9$

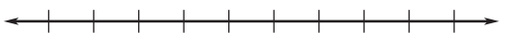
18. $a \leq -5$

19. $y > -2$

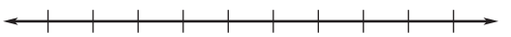
20. $c < 0$

Write the verbal sentence as an inequality. Then graph the inequality.

21. A number x is greater than or equal to 8.

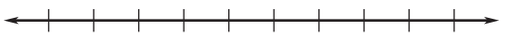


22. Fourteen is greater than or equal to x.

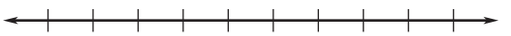


Solve the inequality. Graph your solution.

23. $a + 3 > 8$



24. $x - 1 \leq 4$



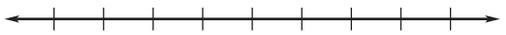
Name _____ Date _____

LESSON 6.1

Practice A *continued*

For use with pages 356–361

25. $6 \geq p + 5$

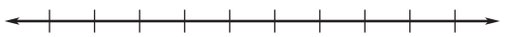


26. $n + 6 < 2$

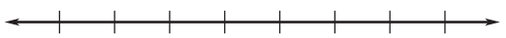
Write and graph an inequality that describes the situation.

27. Any entrée on the menu at a restaurant costs no more than $9.

28. You need to buy at least 3 reams of paper to get the special price.



29. The speed limit on a city street is 25 miles per hour.



30. **Used Books** You like to shop at a used book store that buys and sells books. You take the books you don't want anymore to the book store and get $8 in store credit for them and decide to buy some more books. You don't want to spend more than $10 in cash at the book store. The inequality $c - 8 \leq 10$ gives the total cost c in dollars of the books that you buy.

a. Solve and graph the inequality.

b. How much is the greatest amount of books you can buy worth?

31. **Package Weights** The United States Postal Service will not mail any package that weighs over 70 pounds. You are mailing a package that weighs 51 pounds. Find the possible weights w in pounds that you could add to the package.

32. **Sunflowers** The tallest sunflower you ever grew was 73 inches tall. Suppose that you are growing a sunflower this summer that has grown to 45 inches tall so far. What are the possible numbers of inches that the sunflower needs to grow so that this summer's sunflower is the tallest you've ever grown?