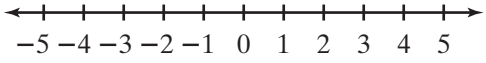
Name _____ Class _____ Date _____

Practice 7-6

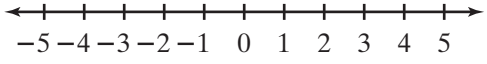
Solving Two-Step Inequalities

Solve each inequality. Graph the solutions on a number line.

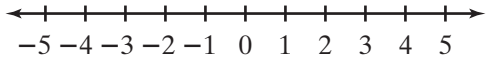
1. $5x + 2 \leq 17$ _____



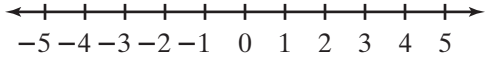
2. $7x + 2x \geq 21 - 3$ _____



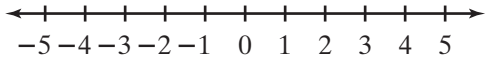
3. $9 - x > 10$ _____



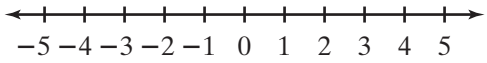
4. $19 + 8 \leq 6 + 7x$ _____



5. $-6x < 12$ _____



6. $\frac{x}{-4} > 0$ _____



Solve each inequality.

7. $2x - 5 > 1$ _____

8. $9x - 7 \leq 38$ _____

9. $3 < \frac{1}{2}x + 1$ _____

10. $-12 < -12x$ _____

11. $-8x + 18 > -22$ _____

12. $50 < 8 - 6x$ _____

13. $\frac{1}{5}x + 6 > -3$ _____

14. $30 \geq -6(5 - x)$ _____

Write an inequality for each situation. Then solve the inequality.

15. Nine more than half the number n is no more than -8. Find n.

_____

_____

16. Judith drove h hours at a rate of 55 mi/h. She did not reach her goal of driving 385 miles for the day. How long did she drive?

_____

_____