

Name: \_\_\_\_\_

Period: \_\_\_\_\_ Date: \_\_\_\_\_

## Inequalities Review

### Section I. Determine which Value is greater than, less than, or equal to

1.  $12$  \_\_\_\_\_  $5$

2.  $-17$  \_\_\_\_\_  $-16$

3.  $\frac{4}{10}$  \_\_\_\_\_  $.6$

4.  $-27$  \_\_\_\_\_  $-8$

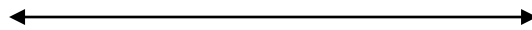
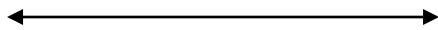
5.  $-.8\overline{33}$  \_\_\_\_\_  $-\frac{5}{6}$

6.  $\frac{17}{8}$  \_\_\_\_\_  $\frac{34}{16}$

### Section II. Solve and Graph the Inequality

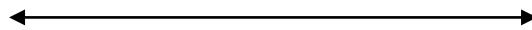
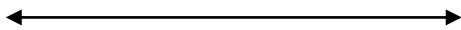
7.  $-11 + k < 6$

8.  $m - 8 > -23$



9.  $7j \geq -42$

10.  $-8f \leq 56$



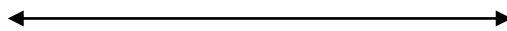
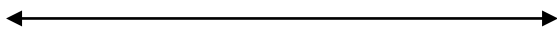
11.  $4x - 9 > 23$

12.  $15 - 6y \leq 27$



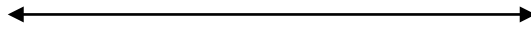
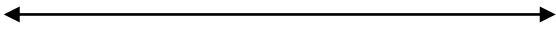
13.  $\frac{w}{9} < 5$

14.  $\frac{h}{-8} \leq 6$



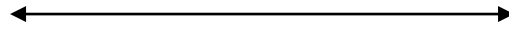
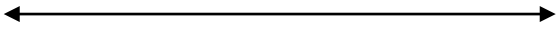
15.  $\frac{a}{-3} + 15 \geq 7$

16.  $\frac{x-9}{4} > -7$



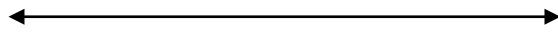
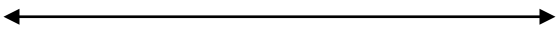
17.  $5(x - 6) \leq 30$

18.  $-12 < 3x < 27$



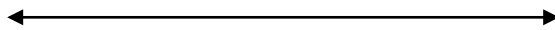
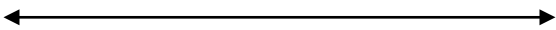
19.  $\frac{x-6}{4} < 2$  or  $\frac{2}{3}x - 8 \geq 26$

20.  $-15 < -2x - 9 < 21$



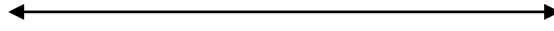
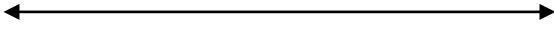
21.  $8 - x < 7$  or  $\frac{x}{4} \leq -7$

22.  $|x - 13| > 8$



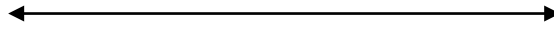
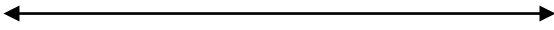
23.  $|-3x + 12| \leq -10$

24.  $\left|1 - \frac{x}{2}\right| \geq 2$



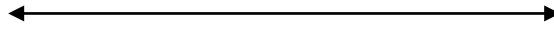
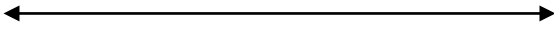
25.  $|x + 8| - 3 < 6$

26.  $7\left|\frac{2}{3}x\right| > 28$



27.  $4 - |3x + 1| > 2$

28.  $7 - 3|4x - 7| \leq 4$



**Section III. Write an Inequality for the given graph**

