

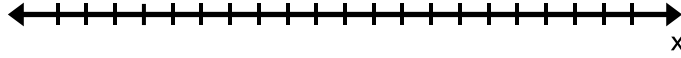
Name: _____ Date: _____ Period: _____

Solving Absolute Value Inequalities Assignment

Solve the following, and graph the solutions on the number line.

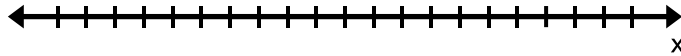
Then write a compound inequality to represent the graph.

1. $|x - 4| = 10$



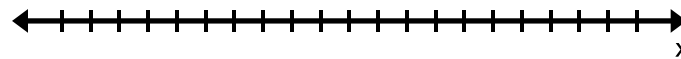
inequality:

2. $|x + 7| = 14$



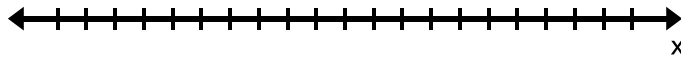
inequality:

3. $|x + 7| < 14$



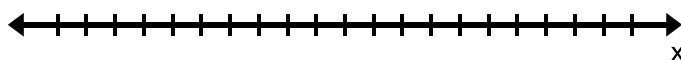
inequality:

4. $|x + 7| \geq 14$



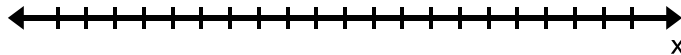
inequality:

5. $|x - 8| + 4 \leq 5$



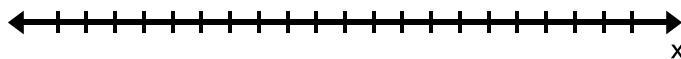
inequality:

6. $|x - 5| - 3 > 6$



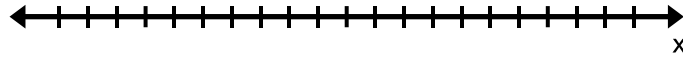
inequality:

7. $6|x - 6| \geq 66$



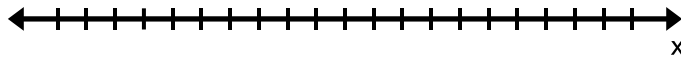
inequality:

8. $1 + |x - 8| > 3$



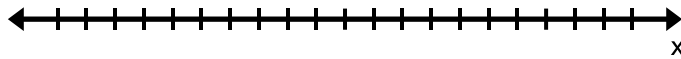
inequality:

9. $|x - 4| > 6$



inequality:

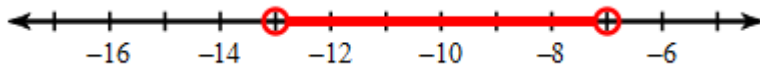
10. $4|x - 3| - 7 \leq 1$



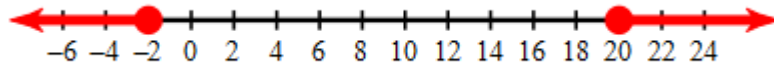
inequality:

Write the compound inequality represented by the graph.

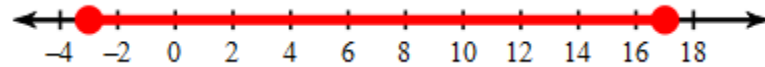
11.



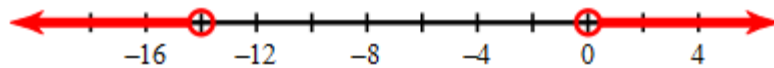
12.



13.



14.



15.

