

# Inequalities Worksheet #2

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

Define the variable and write the inequality that represents the sentence.

1. The minimum speed on the highway is 45 mph.
2. The freezer temperature at a restaurant is to be kept at no more than 32° F.
3. It will cost more than \$25 to rent a car.
4. The high temperature will be at least 75° F today.

Is each number a solution of the given inequality? Show all work just like in class.

- |                  |          |         |         |
|------------------|----------|---------|---------|
| 5. $x \leq -8$   | a. $-10$ | b. $6$  | c. $-8$ |
| 6. $-1 > x$      | a. $0$   | b. $-3$ | c. $-6$ |
| 7. $2y + 1 > -5$ | a. $-4$  | b. $-2$ | c. $4$  |

Graph the following inequalities.

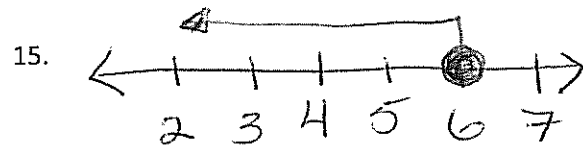
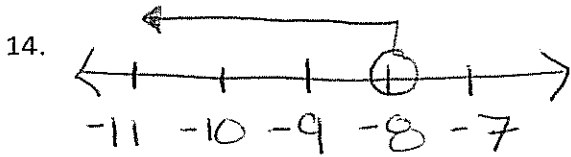
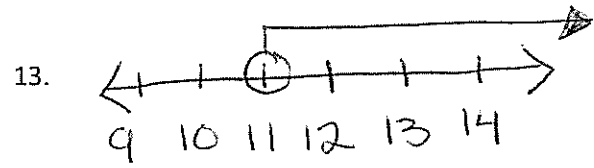
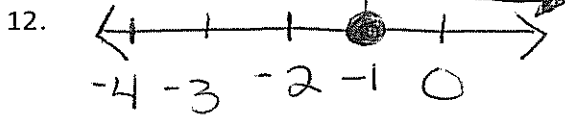
8.  $x > 6$

9.  $y \leq -8$

10.  $-4 < w$

11.  $x \geq 1$

Write an inequality that represents each graph.



Solve each inequality for the variable and check your solution.

16.  $y + 4 \leq 7$

17.  $5y > -45$