

## Inequalities Worksheet #4

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

Define the variable and write an inequality to model each situation like the foldable we completed in class.

1. A student must earn at least 450 points to receive an A in math class.
2. The maximum number of people on an elevator is 15.

Solve the following inequalities for the variable. Check your solution. Finally, graph the inequality.

3.  $-8 + 6x > 34$

4.  $-4y + 7 < -14$

5.  $-18 < 2(12 - 3b)$

6.  $-3j + 2 + j \geq -10$

7.  $2(3b - 2) \leq 4b + 8$

8.  $3(4g - 6) \geq 6(g + 2)$

Write the inequality that represents each graph.

