

Inequalities Worksheet #6

Name: _____

Date: _____

Period: _____

Define the variable and write an inequality to model each situation.

1. This theater can hold a maximum of 25 people.
2. To be a part of this team you have to be at least 21 years old.
3. There is a minimum of 8 cupcakes in the bakery every day.

Solve each inequality, check your solution, and graph your solution.

4. $6x - 15 < 4x + 11$

5. $2(y + 2) - 3t \geq -1$

6. $-2r - 4 \leq 2(3r - 6)$

7. $2(3x + 7) > 4(7 - 2x)$

8. $5a - 2(a - 15) < 10$

9. $3(3x + 1) - (x + 4) \leq 13$

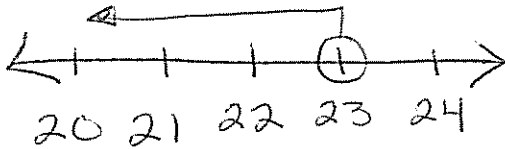
Graph the following inequalities.

10. $-2 < x$

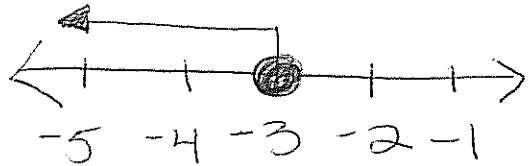
11. $y \leq 8$

Write the inequality that matches each graph.

12.



13.



Write the inequality that represents each situation.

14. The science club charges \$4.50 per car at their car wash. Write an inequality to find how many cars they have to wash to earn at least \$100.

15. Your brother has \$2000 saved for a vacation. His airplane ticket is \$637. Write an inequality to find how much he can spend for everything else.