Solving Inequalities

NAME_____

Solve each inequality. Graph the solution.

1. $2z + 7 < z + 10$

2. $4(k-1) > 4$

3. $1.5 + 2.1y < 1.1y + 4.5$

4. $h + 2(3h + 4) \geq 1$

5. $r + 4 > 13 - 2r$

6. $6u - 18 - 4u < 22$

7. $2(3 + 3g) \geq 2g + 14$

8. $2h - 13 < -3$

9. $-4p + 28 > 8$

10. $13 - (x + 3) \leq 2x + 4$

11. $2y - 5y \leq 2y - 3(3y + 4)$

12. $3m - 6 + m > 2m - (m - 9)$

13. Ernest works in the shipping department loading shipping crates with boxes. Each empty crate weighs 150 lb. How many boxes, each weighing 35 lb. can Ernest put in the crate if the total weight is to be no more than 850 lbs?

14. Beatriz is in charge of setting up a banquet hall. She has five tables that will seat six people each. If no more than 62 people will attend, how many tables seating four people each will she need?

15. Suppose it costs $5 to enter a carnival. Each ride costs $1.25. You have $15 to spend at the carnival. What is the greatest number of rides that you can go on?