Solve the inequality. Graph the solution. (Section 3.4)

1. $2 m+1 \geq 7$
2. $\frac{n}{6}-8 \leq 2$
3. $2-\frac{j}{5}>7$
4. $\frac{5}{4}>-3 w-\frac{7}{4}$

Write the word sentence as an inequality. Graph the inequality. (Section 3.4)
5. A number $h$ is greater than 1 and less than 6 .
6. A number $q$ is less than or equal to -3 or at least 2 .

Solve the inequality. Graph the solution, if possible. (Section 3.4)
7. $7>-2 y+5>-3$
8. $3 z+2 \leq-10$ or $z-7 \geq-5$
9. $|2 b-1| \leq 3$
10. $-4|r-1|+7<-9$

Graph the inequality in a coordinate plane. (Section 3.5)
11. $y \geq-8$
12. $x<6$
13. $x+y>5$
14. $4 x-4 y \leq 8$
15. PARTY You buy lunch for guests at a party. You can spend no more than $\$ 100$. You will spend $\$ 20$ on beverages and $\$ 10$ per guest on sandwiches. Write and solve an inequality to find the number of guests you can invite to the party. (Section 3.4)
16. BOOKS You have a gift card worth $\$ 50$. You want to buy several paperback books that cost $\$ 6$ each. Write and solve an inequality to find the number of books you can buy and still have at least $\$ 20$ on the gift card. (Section 3.4)

