## Write the word sentence as an inequality.

1. A number $j$ plus 20.5 is greater than or equal to 50 .
2. A number $r$ multiplied by $\frac{1}{7}$ is less than -14 .

Tell whether the given value is a solution of the inequality.
3. $v-2 \leq 7 ; v=9$
4. $\frac{3}{10} p<0 ; p=10$
5. $-3 n \geq 6 ; n=-3$

## Solve the inequality. Graph the solution.

6. $n-3>-3$
7. $x-\frac{7}{8} \leq \frac{9}{8}$
8. $-6 b \geq-30$
9. $\frac{y}{-4} \geq 13$
10. $3 v-7 \geq-13.3$
11. $-5(t+11)<-60$
12. $3 \leq x+5 \leq 9$
13. $3 x-2 \leq 4$ or $x-4 \geq 6$
14. $|x+5|<12$

## Graph the inequality in a coordinate plane.

15. $x>-6$
16. $y<2$
17. $x \geq-1$
18. $3 x+y \geq 7$
19. $4 x+2 y \leq 8$
20. $3 x-9 y>18$
21. VOTING U.S. citizens must be at least 18 years of age on Election Day to vote. Write an inequality that represents this situation.
22. GARAGE The vertical clearance for a hotel parking garage is 10 feet. Write and solve an inequality that represents the height (in feet) of the vehicle.
23. TRADING CARDS You have $\$ 25$ to buy trading cards online. Each pack of cards costs $\$ 4.50$. Shipping costs $\$ 2.95$. Write and solve an inequality to find the number of packs of trading cards you can buy.

24. SCIENCE QUIZZES The table shows your scores on four science quizzes. What score do you need on the fifth quiz to have a mean score of at least 80 ?

| Quiz | 1 | 2 | 3 | 4 | 5 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Score (\%) | 76 | 87 | 73 | 72 | $?$ |

