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## 6-2 Skills Practice

Solving Inequalities by Multiplication and Division
Match each inequality with its corresponding statement.

1. $3 n<9$
a. Three times a number is at most nine.
2. $\frac{1}{3} n \geq 9$
b. One third of a number is no more than nine.
3. $3 n \leq 9$
c. Negative three times a number is more than nine.
4. $-3 n>9$
d. Three times a number is less than nine.
5. $\frac{1}{3} n \leq 9$
e. Negative three times a number is at least nine.
6. $-3 n \geq 9$
f. One third of a number is greater than or equal to nine.

Solve each inequality. Then check your solution.
7. $14 g>56$
8. $11 w \leq 77$
9. $20 b \geq-120$
10. $-8 r<16$
11. $-15 p \leq-90$
12. $\frac{s}{4}<9$
13. $\frac{a}{9} \geq-15$
14. $-\frac{p}{7}>-9$
15. $-\frac{t}{12} \geq 6$
16. $5 z<-90$
17. $-13 m>-26$
18. $\frac{k}{5} \leq-17$
19. $-y<36$
20. $-16 c \geq-224$
21. $-\frac{h}{10} \leq 2$
22. $12>\frac{d}{12}$

Define a variable, write an inequality, and solve each problem. Then check your solution.
23. Four times a number is greater than -48 .
24. One eighth of a number is less than or equal to 3 .
25. Negative twelve times a number is no more than 84.
26. Negative one sixth of a number is less than -9 .
27. Eight times a number is at least 16 .

