

**Practice****Solving Inequalities by Using Multiplication and Division**

Solve each inequality. Then check your solution.

1.  $12x < 144$

2.  $-y \leq 36$

3.  $-9z > -36$

4.  $-18 > 3a$

5.  $-14 \leq 4b$

6.  $224 > -16c$

7.  $-13d < -65$

8.  $-3.5e < 42$

9.  $4f \geq -7$

10.  $0 \leq -0.5g$

11.  $0.1h \geq -4$

12.  $-44 < 4.4j$

13.  $-3w > 0.75$

14.  $2.6v < -20.8$

15.  $-9 \geq -0.9m$

16.  $\frac{a}{-10} \leq -2$

17.  $-15 > \frac{c}{-4}$

18.  $12 \geq \frac{d}{12}$

19.  $\frac{5}{14} \geq \frac{-2e}{7}$

20.  $\frac{-3f}{5} > -\frac{4}{15}$

21.  $\frac{5}{2} \geq \frac{4}{-5}g$

22.  $-2.6 \geq \frac{w}{4}$

23.  $\frac{a}{-5} < -14$

24.  $-\frac{10}{3} \leq \frac{y}{-6}$

25.  $\frac{2}{3}n > -12$

26.  $\frac{-5}{9}\ell < 25$

27.  $\frac{7}{8}x \leq -10$

28.  $\frac{3i}{-7} \leq -\frac{7}{8}$

Define a variable, write an inequality, and solve each problem.  
Then check your solution.

29. Four times a number is greater than  $-48$ .

30. Negative three times a number is at least  $57$ .

31. A number divided by negative six is no less than  $5$ .

32. Two thirds of a number is no more than  $-10$ .