

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 .