

3-3**Practice**

Form G

Solving Inequalities Using Multiplication or Division**Solve each inequality. Graph and check your solution.**

1. $\frac{x}{3} > -1$

2. $\frac{w}{4} < 1$

3. $4 \leq -\frac{p}{2}$

4. $1 \leq -\frac{2}{3}y$

5. $-6 \geq \frac{2}{3}x$

6. $-1 \leq \frac{2}{3}k$

7. $3m > 6$

8. $3t < -12$

9. $-18 \geq -6c$

10. $-3w < 21$

11. $9z > -36$

12. $108 \geq -9d$

3-3**Practice** (continued)

Form G

Solving Inequalities Using Multiplication or Division

Solve each inequality. Graph and check your solution.

13. $-2.5 > 5p$

14. $-1 < \frac{t}{6}$

15. $\frac{2}{3}n \leq 4$

16. $-27u \geq 3$

17. **Writing** On a certain marathon course, a runner reaches a big hill that is at least 10 miles into the race. If a total marathon is 26.2 miles, how can you find the number of miles the runner still has to go?
18. You wonder if you can save money by using your cell phone for all long distance calls. Long distance calls cost \$.05 per minute on your cell phone. The basic plan for your cell phone is \$29.99 each month. The cost of regular phone service with unlimited long distance is \$39.99. Define a variable and write an inequality that will help you find the number of long-distance call minutes you may make and still save money.
19. The unit cost for a piece of fabric is \$4.99 per yard. You have \$30 to spend on material. How many feet of material could you buy? Define a variable and write an inequality to solve this problem.