**Study Guide and Intervention**

***Solving Inequalities***

**Example 1: Solve 2*x* + 4 > 36.**

**Graph the solution set on a number line.**

**Example 2: Solve 17 – 3*w* ≥ 35.**

**Graph the solution set on a number line.**

**Exercises**

**Solve each inequality. Then graph the solution set on a number line.**

1. 7(7*a* – 9) ≤ 84



1. 3(9*z* + 4) > 35*z* – 4



**3.** 5(12 – 3*n*) < 165



1. 18 – 4*k* < 2(*k* + 21)



**5.** 4(*b* – 7) + 6 < 22



**6.** 2 + 3(*m* + 5) ≥ 4(*m*+ 3)

