Investigating ACTIVITY Use before Lesson 6.2



- solutions found in Step 2. Then solve the inequality.
- **2.** Copy and complete the steps below for solving $-4x \ge 8$.
 - $-4x \ge 8$ Write original inequality.
 - $\underline{?}$ Add 4x to each side.
 - <u>?</u> Subtract 8 from each side.
 - <u>?</u> Divide each side by 4.
 - ? Rewrite inequality with *x* on the left side.
- **3.** Does dividing both sides of $-4x \ge 8$ by -4 give the solution found in Exercise 2? If not, what else must you do to the inequality when you divide by -4?
- **4.** Do you need to change the direction of the inequality symbol when you divide each side of an inequality by a positive number? by a negative number?

Solve the inequality.

5. $20x \ge 5$ **6.** $-9x \le 45$ **7.** -8x > 40 **8.** 7x < 21