Solve the inequality. Graph the solution.   *(Section 8.3)*

1. $\dfrac{a}{3} < 5$ **2.** $121 \geq 11s$ **3.** $12p > 24$

Write the word sentence as an inequality. Then solve the inequality.   *(Section 8.3)*

4. Three times a number x is more than 18.

5. A number d divided by 24 is at most 1.25.

6. 84 is no less than 7 times a number k.

Solve the inequality. Graph the solution.   *(Section 8.4)*

7. $2n + 14 < 15$ **8.** $\dfrac{n}{2} + 3 > 5$ **9.** $5 \leq 6k - 1$

10. BAND A band director wants to divide members of the band into 4 equal groups with no more than 9 students in each group. Write and solve an inequality to represent the total number of band members.   *(Section 8.3)*

11. CHARITY WALK You want to raise at least $300 for a charity walk. So far, you have raised $135. You ask donors to give $15. Write and solve an inequality to find how many more $15 donations you need. *(Section 8.4)*

12. GARDEN You want to use a square section of your yard for a garden. You have at most 52 feet of fencing to surround the garden. Write and solve an inequality to represent the possible lengths of each side of the garden.   *(Section 8.3)*

13. BOTTLED WATER You need at least 24 bottles of water for a camping trip. You have 3 bottles left over from a previous camping trip. *(Section 8.4)*

   a. A store sells water in packages of 8 bottles each. Write and solve an inequality to represent the number of packages you need to buy for the trip.

   b. Would it be better to buy *two* or *three* packages of bottled water for the trip? Explain.