

3.4**Challenge Practice**

For use with pages 138–142

Solve the inequality. Graph your solution.

- $4.2 + t - 3.6 \leq -0.5$
- $28 + r - 34 > 18$
- $6.04 < 7.1 + x - 3.24$
- $2t + 4 \geq t$

In Exercises 5 and 6, write the verbal sentence as an inequality. Then solve the inequality.

- The sum of 8 and a number is less than -14 .
- Fourteen is greater than or equal to the difference of a number and 4.
- At a temperature of -78.5°C , dry ice starts changing from a solid to a gas. Write and graph an inequality to show the temperatures at which dry ice is a solid.
- Luann is entering a pumpkin growing contest. Last year's winning pumpkin weighed 215.5 pounds. So far, Luann's pumpkin weighs 50.5 pounds. Write and solve an inequality that represents the weight w (in pounds) that Luann's pumpkin has to gain in order to exceed the weight of last year's winning pumpkin.
- Find all the values of r that make both of the following inequalities true: $4.2 + r \leq 7.8$ and $-6.2 + r > -10.5$. Show how you found your answer.