

2.3 Practice A

In Exercises 1–6, solve the inequality. Graph the solution.

1. $3x \leq 9$

2. $2m < -6$

3. $-18 < 6t$

4. $40 \leq 8p$

5. $\frac{b}{3} \geq -1$

6. $\frac{x}{3} \leq 8.7$

In Exercises 7–12, solve the inequality. Graph the solution.

7. $-5j \leq 10$

8. $-4t \geq 4$

9. $-14 > -7y$

10. $-24 < -6a$

11. $\frac{k}{-2} > 2$

12. $\frac{h}{-1} < 7$

13. You have \$25 to buy 6 fishing lures. Write and solve an inequality that represents the prices you can pay per fishing lure.

In Exercises 14–16, solve the inequality. Use a graphing calculator to verify your answer.

14. $54 \leq 9g$

15. $13m > 65$

16. $3 < -\frac{3}{7}d$

17. Describe and correct the error in solving the inequality.

\times $5 < \frac{w}{-3}$

$$-3 \cdot (5) > -3 \cdot \left(\frac{w}{-3}\right)$$
$$-15 > w$$

The solution is $w > -15$.

18. You bike for 2 hours at a speed no faster than 17.6 miles per hour.

- Write and solve an inequality that represents the possible numbers of miles you bike.
- The bike portion of an Ironman competition is 112 miles. Your friend says that if you continue to bike at this pace, you will be able to complete the bike portion of the Ironman in less than 6.5 hours. Is your friend correct? Explain.