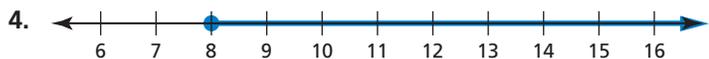
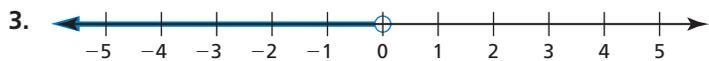


2.1–2.4 Quiz

Write the sentence as an inequality. (Section 2.1)

1. A number z minus 6 is greater than or equal to 11.
2. Twelve is no more than the sum of -1.5 times a number w and 4.

Write an inequality that represents the graph. (Section 2.1)



Solve the inequality. Graph the solution. (Section 2.2 and Section 2.3)

5. $9 + q \leq 15$
6. $z - (-7) < 5$
7. $-3 < y - 4$
8. $3p \geq 18$
9. $6 > \frac{w}{-2}$
10. $-20x > 5$

Solve the inequality. (Section 2.4)

11. $3y - 7 \geq 17$
 12. $8(3g - 2) \leq 12(2g + 1)$
 13. $6(2x - 1) \geq 3(4x + 1)$
14. Three requirements for a lifeguard training course are shown. (Section 2.1)
- a. Write and graph three inequalities that represent the requirements.
 - b. You can swim 250 feet, tread water for 6 minutes, and swim 35 feet underwater without taking a breath. Do you satisfy the requirements of the course? Explain.
15. The maximum volume of an American white pelican's bill is about 700 cubic inches. A pelican scoops up 100 cubic inches of water. Write and solve an inequality that represents the additional volumes the pelican's bill can contain. (Section 2.2)

LIFEGUARDS NEEDED

Take Our Training Course NOW!!!

Lifeguard Training Requirements

- Swim at least 100 yards.
- Tread water for at least 5 minutes.
- Swim 10 yards or more underwater without taking a breath.

16. You save \$15 per week to purchase one of the bikes shown. (Section 2.3 and Section 2.4)
- a. Write and solve an inequality to find the numbers of weeks you need to save to purchase a bike.
 - b. Your parents give you \$65 to help you buy the new bike. How does this affect your answer in part (a)? Use an inequality to justify your answer.

Prices starting at
\$120

