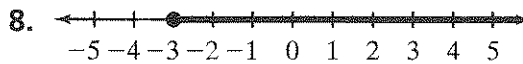
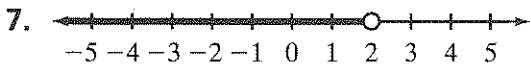
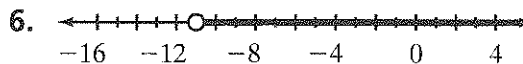
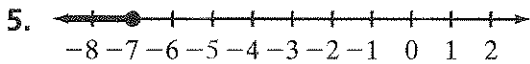


Practice 2-8 Inequalities and Their Graphs

Write an inequality for each sentence.

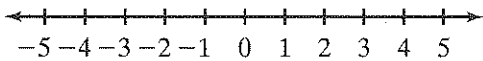
- The total t is less than sixteen. _____
- A number h is not less than 7. _____
- The price p is less than or equal to \$25. _____
- A number n is negative. _____

Write an inequality for each graph.

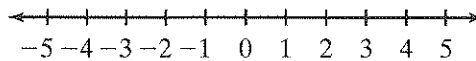


Graph the solutions of each inequality on a number line.

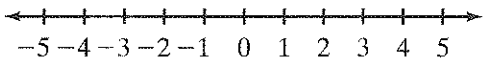
9. $x < -2$



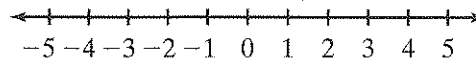
10. $y \geq -1$



11. $k > 1$



12. $p \leq 4$



Write an inequality for each situation.

- Everyone in the class is under 13 years old. Let x be the age of a person in the class.

- The speed limit is 60 miles per hour. Let s be the speed of a car driving within the limit.

- You have \$4.50 to spend on lunch. Let c be the cost of your lunch.

Practice 2-9 Solving One-Step Inequalities by Adding or Subtracting

Write an inequality for each sentence. Then solve the inequality.

- Six less than n is less than -4 .

- The sum of a number k and five is greater than or equal to two.

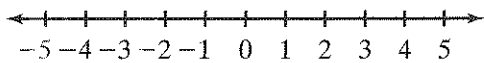
- Nine more than a number b is greater than negative three.

- You must be at least 48 inches tall to ride an amusement park ride, and your little sister is 39 inches tall. How many inches i must she grow before she may ride the ride?

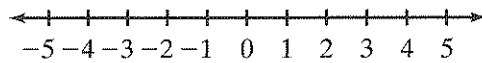
- You need no more than 3,000 calories in a day. You consumed 840 calories at breakfast and 1,150 calories at lunch. How many calories c can you eat for dinner?

Solve each inequality. Graph the solutions.

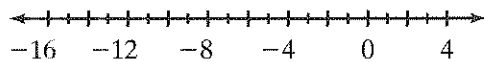
6. $7 + x \geq 9$ _____



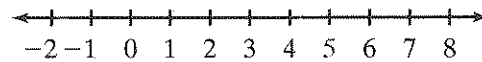
7. $-5 \leq x - 6$ _____



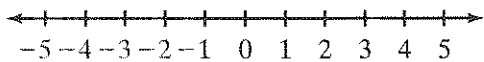
8. $0 \geq x + 12$ _____



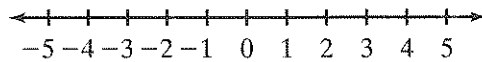
9. $x - 15 \leq -8$ _____



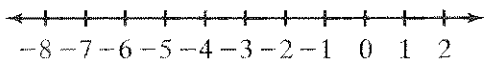
10. $13 + x \geq 13$ _____



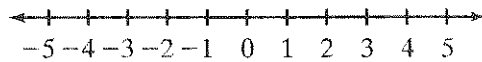
11. $x - 8 > -5$ _____



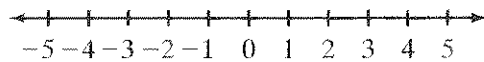
12. $4 + x < -2$ _____



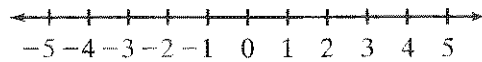
13. $x - 9 > -11$ _____



14. $x - 6 \leq -1$ _____



15. $-4 + x < -4$ _____



Practice 2-10 Solving One-Step Inequalities by Multiplying or Dividing

Write an inequality for each sentence. Then solve the inequality.

1. The product of k and -5 is no more than 30.

2. Half of p is at least -7 .

3. The product of k and 9 is no more than 18.

4. One-third of p is at least -17 .

5. The opposite of g is at least -5 .

Solve each inequality.

6. $-5x < 10$ _____

7. $\frac{x}{4} > 1$ _____

8. $-8 < -8x$ _____

9. $\frac{1}{3}x > -2$ _____

10. $48 \geq -12x$ _____

11. $\frac{1}{3}x < -6$ _____

12. $\frac{x}{5} < -4$ _____

13. $-x \leq 2$ _____

Determine whether each number is a solution of $7 \geq -3k$.

14. 2 _____ 15. -2 _____ 16. 0 _____ 17. -3 _____

Justify each step.

18. $-5n \geq 45$

$$\frac{-5n}{-5} \leq \frac{45}{-5}$$

$$n \leq -9$$
