6-1 **Skills Practice**
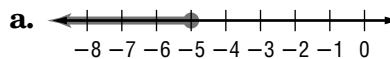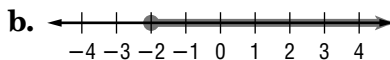
Solving Inequalities by Addition and Subtraction

Match each inequality with its corresponding graph.
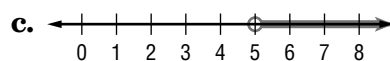
1. $x + 11 > 16$
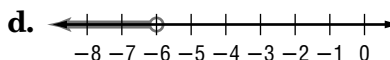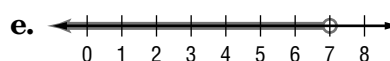
a.

2. $x - 6 < 1$

b.

3. $x + 2 \leq -3$

c.

4. $x + 3 \geq 1$
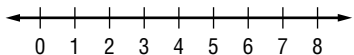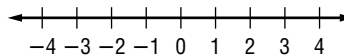
d.

5. $x - 1 < -7$

e.

Solve each inequality. Then check your solution, and graph it on a number line.

6. $d - 5 \leq 1$

7. $s + 9 < 8$

8. $a - 7 > -13$
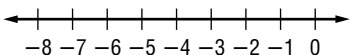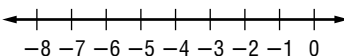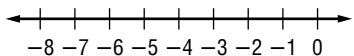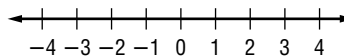
9. $w - 1 < 4$
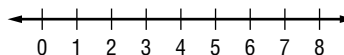
10. $4 \geq k + 3$
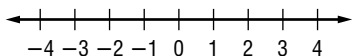
11. $-9 \leq b - 4$

12. $-2 \geq x + 4$

13. $2y < y + 2$

Define a variable, write an inequality, and solve each problem. Then check your solution.

14. A number decreased by 10 is greater than -5.

15. A number increased by 1 is less than 9.

16. Seven more than a number is less than or equal to -18.

17. Twenty less than a number is at least 15.

18. A number plus 2 is at most 1.