

Lesson 6 Skills Practice

Solve Inequalities by Addition or Subtraction

Solve each inequality.

1. $a + 4 < 9$ $a < 5$

2. $e - 7 > 1$ $e > 8$

3. $-4 \geq k - 2$ $k \leq -2$

4. $y + 6 > 9$ $y > 3$

5. $n - 9 \geq 5$ $n \geq 14$

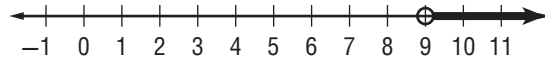
6. $-4 > h - 2$ $h < -2$

7. $-19 > x - 11$ $x < -8$

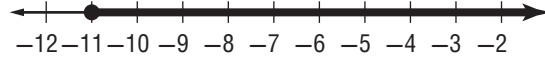
8. $5 \leq q + 12$ $q \geq -7$

Solve each inequality. Graph the solution set on a number line.

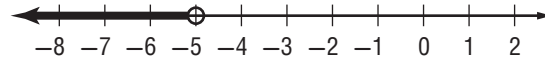
9. $8 < p - 1$ $p > 9$;



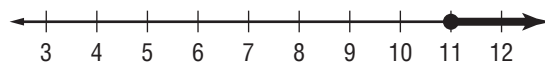
10. $w + 5 \geq -6$ $w \geq -11$;



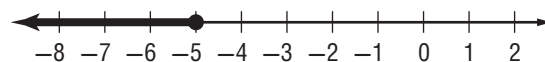
11. $1 > x + 6$ $x < -5$;



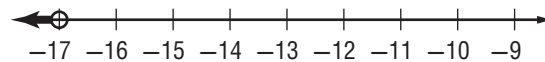
12. $4 \leq v - 7$ $v \geq 11$;



13. $b - 3 \leq -8$ $b \leq -5$;



14. $m + 9 < -8$ $m < -17$;



Write an inequality and solve each problem.

15. Two less than a number is less than 9. $n - 2 < 9$; $n < 11$

16. The difference between a number and 3 is no more than 2. $n - 3 \leq 2$; $n \leq 5$

17. The sum of a number and 8 is more than 4. $n + 8 > 4$; $n > -4$

18. Two more than a number is less than 13. $2 + n < 13$; $n < 11$