

Name: _____

Compound Sentences

A) Solve the following compound inequalities and graph the solution on the number line.

1) $-3 \leq 2x + 7 \leq 9$

2) $-4 \leq 3x + 1 \leq 6$

3) $3 \leq 5x + 2 \leq 11$

4) $4 \leq 3x + 6 \leq 15$

5) $15 < -5x < 25$

6) $-4 < r - 5 \leq -1$

7) $4v + 3 < -5$ or $-2v + 7 < 1$

8) $-3 < 2x - 1 < 7$

9) $-6 < 3x < 15$

10) $7 < -3n + 1 \leq 13$

11) $2d + 5 \leq -1$ or $-2d + 5 \leq 5$

12) $3x + 2 < -7$ or $-4x + 5 < 1$

13) $x - 4 < 1$ and $x + 2 > 1$

14) $x + 4 < 2$ or $x - 2 > 1$

15) $6 - c > c$ or $3c - 1 < c + 13$

16) $14 < 3h + 2 < 2$

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

17) Two times a number plus one is greater than five and less than seven.

18) A number minus one is at most nine, or two times the number is at least twenty-four.