

Practice Ch. 6-4 - Compound "AND/OR" Inequalities Date _____ Period _____

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Solve each compound inequality and graph its solution.

1) $x + 5 < 8$ and $x + 6 > 5$

2) $6m \geq -6$ or $m + 5 < 2$

3) $10p < -100$ or $p + 6 \geq 14$

4) $-5 + k \geq -5$ or $5k < -30$

5) $x + 8 < 15$ and $x + 2 > 0$

6) $-7 + m \geq -6$ or $m + 9 \leq 4$

7) $-6 + n \leq -4$ and $1 + n \geq -7$

8) $6n \geq -6$ and $n - 4 < 5$

9) $-4n + 1 \leq 13$ and $6n - 3 \leq 3$

10) $7v + 6 < 6$ and $-5v + 1 < 11$

11) $7b - 7 \leq 14$ or $2 + 6b \geq 38$

12) $7 + 10n > 47$ or $5n - 4 < -29$

13) $9 - 2x < -3$ or $-7x + 9 > -12$

14) $10 + 2a < 28$ and $3a - 9 > -9$

15) $5p + 7 \geq -38$ and $8p + 8 < -16$

16) $-6k - 6 < -48$ or $5k - 1 < -41$

17) $8 + 4n \geq 5n - 1$ and $8n + 2 < 10n - 2$

18) $4x + 6 \geq 7x - 3$ or $4 + 10x > 10 + 9x$

19) $-9 - 10m \geq -9m - 2$ or $7m + 7 < 8m + 7$

20) $3 + 2r \leq 6 + 3r$ or $8r - 10 > 9r + 8$

21) $-1 - 6x \geq -5x + 1$ and $5x + 5 > 3x - 3$

22) $6n + 6 < -3 - 3n$ or $10 - 9n \leq 10 - 8n$

23) $4b - 10 < 2b - 4$ or $-5 - 9b \geq 8 - 10b$

24) $3 + 10v < 9v - 9$ or $v - 10 < 2 + 5v$

Answers to Practice Ch. 6-4 - Compound "AND/OR" Inequalities (ID: 11)

