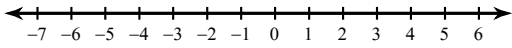


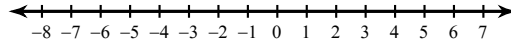
Compound Inequalities

Solve each compound inequality and graph its solution.

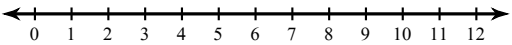
1) $n + 1 \leq -3$ or $-4n < -8$



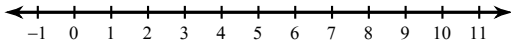
2) $\frac{k}{4} \geq 1$ or $\frac{k}{3} \leq -1$



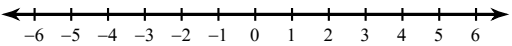
3) $2 < 2x < 6$



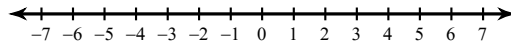
4) $6 \leq x + 6 \leq 11$



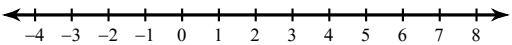
5) $-3 < m - 5 < -1$



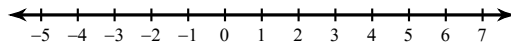
6) $p + 4 \leq 1$ or $p - 1 \geq 1$



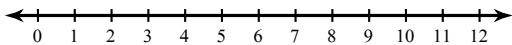
7) $-33 \leq -7n - 12 < -26$



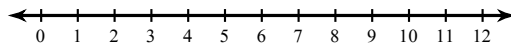
8) $9 + 2b < 7$ or $7 - 5b < -8$



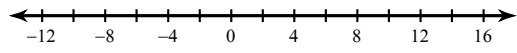
9) $9 - 12r \geq -99$ and $-2r - 4 < -12$



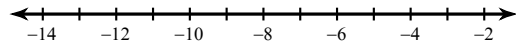
10) $12 + 4n > 44$ or $10 - 12n > -38$



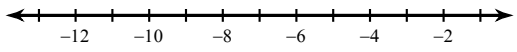
11) $-5b - 8 \leq -68$ or $11b - 12 < -100$



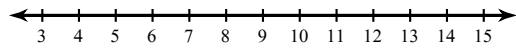
12) $36 \leq 11 - 5x \leq 66$



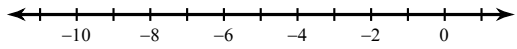
13) $-10 - 2v < 6$ and $6v + 12 < -6$



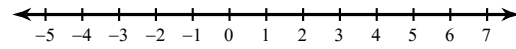
14) $2x - 3 < 11$ or $-8x - 10 < -82$



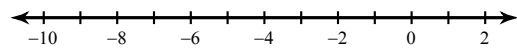
15) $4b + 18 \leq -12b - 14 \leq 14 - 5b$



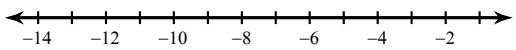
16) $4a + 8 > 11a + 15$ and $13 - 14a \leq 13 - 3a$



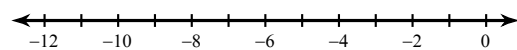
17) $8p - 13 \leq -2 + 7p$ and $20 + 4p < 2p + 14$



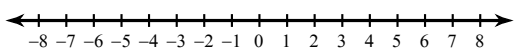
18) $5v + 10 \leq -4v - 17 < 9 - 2v$



19) $14r + 20 < 14r + 16$ or $8 - 10r \geq 15 - 9r$



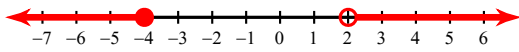
20) $x + 18 \geq 8x + 4$ or $15x - 15 \leq 15x + 5$



Compound Inequalities

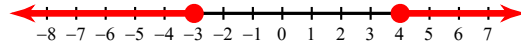
Solve each compound inequality and graph its solution.

1) $n + 1 \leq -3$ or $-4n < -8$



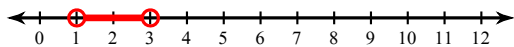
$n \leq -4$ or $n > 2$

2) $\frac{k}{4} \geq 1$ or $\frac{k}{3} \leq -1$



$k \geq 4$ or $k \leq -3$

3) $2 < 2x < 6$



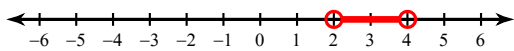
$1 < x < 3$

4) $6 \leq x + 6 \leq 11$



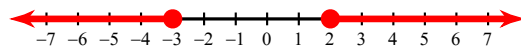
$0 \leq x \leq 5$

5) $-3 < m - 5 < -1$



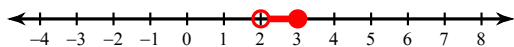
$2 < m < 4$

6) $p + 4 \leq 1$ or $p - 1 \geq 1$



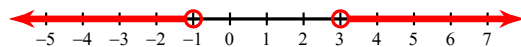
$p \leq -3$ or $p \geq 2$

7) $-33 \leq -7n - 12 < -26$



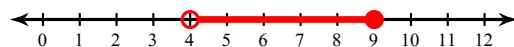
$2 < n \leq 3$

8) $9 + 2b < 7$ or $7 - 5b < -8$



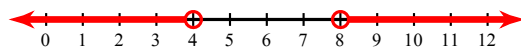
$b < -1$ or $b > 3$

9) $9 - 12r \geq -99$ and $-2r - 4 < -12$



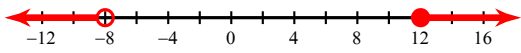
$4 < r \leq 9$

10) $12 + 4n > 44$ or $10 - 12n > -38$



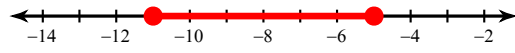
$n > 8$ or $n < 4$

11) $-5b - 8 \leq -68$ or $11b - 12 < -100$



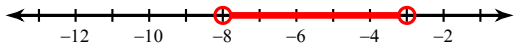
$b \geq 12$ or $b < -8$

12) $36 \leq 11 - 5x \leq 66$



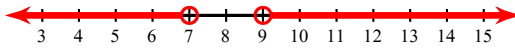
$-11 \leq x \leq -5$

13) $-10 - 2v < 6$ and $6v + 12 < -6$



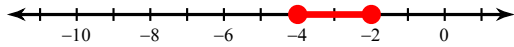
$-8 < v < -3$

14) $2x - 3 < 11$ or $-8x - 10 < -82$



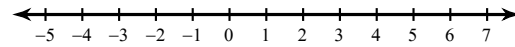
$x < 7$ or $x > 9$

15) $4b + 18 \leq -12b - 14 \leq 14 - 5b$



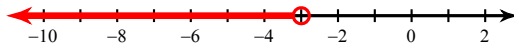
$-4 \leq b \leq -2$

16) $4a + 8 > 11a + 15$ and $13 - 14a \leq 13 - 3a$



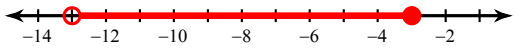
No solution.

17) $8p - 13 \leq -2 + 7p$ and $20 + 4p < 2p + 14$



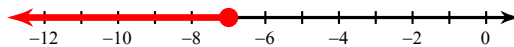
$p < -3$

18) $5v + 10 \leq -4v - 17 < 9 - 2v$



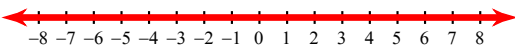
$-13 < v \leq -3$

19) $14r + 20 < 14r + 16$ or $8 - 10r \geq 15 - 9r$



$r \leq -7$

20) $x + 18 \geq 8x + 4$ or $15x - 15 \leq 15x + 5$



{ All real numbers. }