

Compound Inequalities Day 1

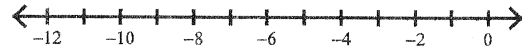
Date _____ Period _____

Solve each compound inequality and graph its solution.

1) $2 \leq b + 5 < 3$



2) $n + 8 < 7$ and $n - 1 \geq -11$



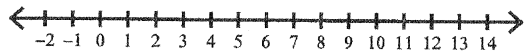
Solve each equation.

3) $6n - 6(-n - 8) = 84$

4) $-6(1 + 2k) = -102$

Solve each compound inequality and graph its solution.

5) $n - 1 < 0$ or $\frac{n}{10} > 1$



6) $a - 7 \geq -17$ and $a + 10 \leq 15$



7) $k + 8 < 13$ or $\frac{k}{9} \geq 1$



8) $\frac{p}{4} \geq 2$ or $p - 5 < -12$



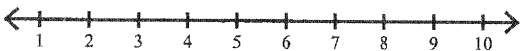
Solve each equation.

9) $-4p - 5p = -6p + 3$

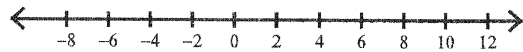
10) $-15 + x - 1 - 3x = 8 - x + 7x$

Solve each compound inequality and graph its solution.

11) $1 \leq x - 1 \leq 8$

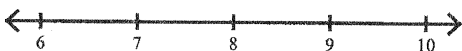


12) $-10n \geq 40$ or $-6 + n > 2$

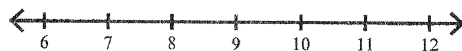


Solve each inequality and graph its solution.

13) $-7(5 - 3r) < 133$

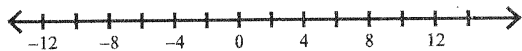


14) $114 > -6(5 - 3b)$

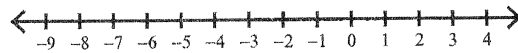


Solve each compound inequality and graph its solution.

15) $10 + p \leq 3$ or $\frac{p}{5} \geq 2$

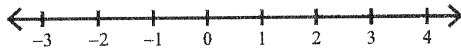


16) $-2m \geq -2$ and $\frac{m}{6} \geq -1$



Solve each inequality and graph its solution.

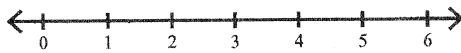
17) $-6(1 - 5x) \leq -6 + 6x$



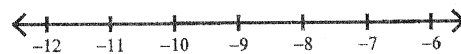
18) $8(-7n + 1) - 2 \geq 6 + 7n$



19) $72 < 8(a + 7)$



20) $\frac{v}{2} + 2 < -3$



Solve each compound inequality and graph its solution.

21) $-3 \leq 1 + x < 5$

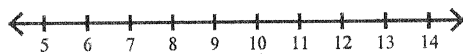


22) $-3 \geq n - 8 \geq -8$



Solve each inequality and graph its solution.

23) $-3 + \frac{x}{5} \leq -1$

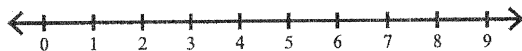


24) $3 < \frac{x-7}{3}$



Solve each compound inequality and graph its solution.

25) $x + 8 < 16$ and $x - 7 \geq -5$



26) $\frac{v}{2} < -4$ or $6v \geq 54$

