

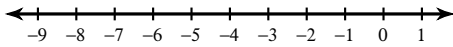
## Solving Inequalities

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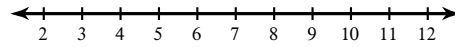
Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each inequality and graph its solution.**

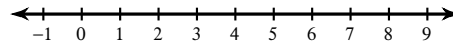
1)  $-12 < x + 5x$



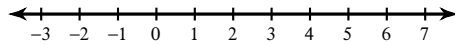
2)  $-3 \leq -p + 5 - 4$



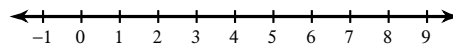
3)  $1 + n - 3 \leq 4$



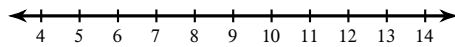
4)  $5 \leq 2m + 3m$



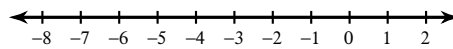
5)  $-31 + 4r < -7(5r - 6) + 5$



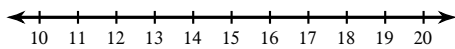
6)  $3(-5n + 6) + 4n \leq -30 - 3n$



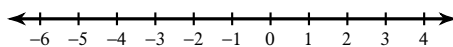
7)  $-2(4n + 1) \leq -2 - 8n$



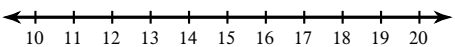
8)  $-8(x + 4) \geq -8x - 32$



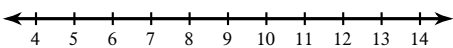
9)  $-(a - 11) > -(1 + 5a)$



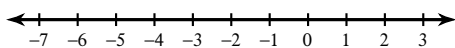
10)  $-3k - (9k - 1) \geq 11 - 12(k - 11)$



11)  $-2 + 12(3v + 7) \leq -3(1 - 12v)$

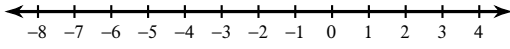


12)  $5(2v + 1) \geq -5(1 - 2v) + 7$

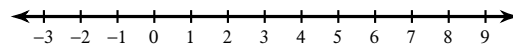


Solve each compound inequality and graph its solution.

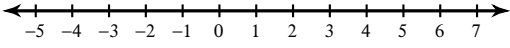
13)  $\frac{x}{5} \leq -1$  or  $\frac{x}{6} \geq 0$



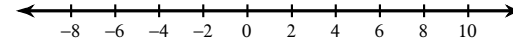
14)  $-6 + x \geq 0$  or  $-1 + x < 0$



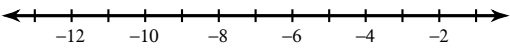
15)  $3 \leq n + 4 \leq 6$



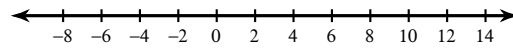
16)  $\frac{k}{2} < -2$  or  $\frac{k}{6} > 1$



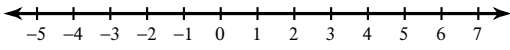
17)  $-110 \leq 11p - 11 < -77$



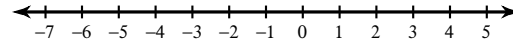
18)  $-11 - x > -5$  or  $4x - 9 \geq 35$



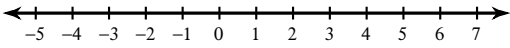
19)  $6n + 6 > -6$  and  $9 + 6n \leq 45$



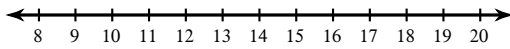
20)  $-5m - 1 \geq -1$  and  $4m - 5 \geq -9$



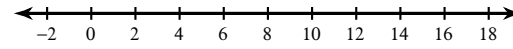
21)  $8b + 18 > 16b - 14$  and  $-16b - 10 \leq -12b - 10$



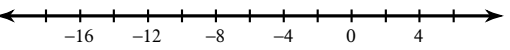
22)  $12r + 2 < 15 + 11r$  or  $16 + 3r > 18r - 14$



23)  $8n + 14 \geq 9n - 2$  and  $3 + 6n \geq -17n + 3$



24)  $8x - 19 > 17 - x$  or  $4x - 14 \geq 6x + 18$



# Answers to Solving Inequalities

