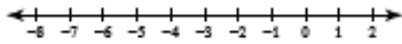


Name: \_\_\_\_\_ Period: \_\_\_\_\_

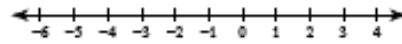
## Solving Inequalities

For each of the inequalities below find the solution and then graph it on a number line.  
(See textbook pages 298 to 303 for additional examples and problems)

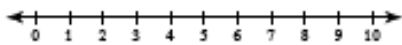
1)  $3 < -5n + 2n$



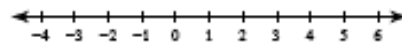
2)  $6x + 2 + 6x < 14$



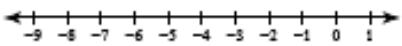
3)  $-p - 4p > -10$



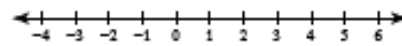
4)  $18 \geq 5k + 4k$



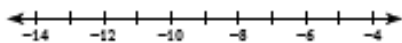
5)  $9 \geq -2m + 2 - 3$



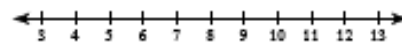
6)  $-3 - 6(4x + 6) > -111$



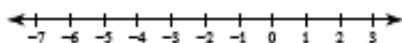
7)  $6 - 4(6n + 7) \geq 122$



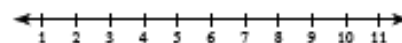
8)  $-138 \geq -6(6b - 7)$



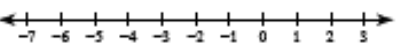
9)  $167 < 6 + 7(2 - 7r)$



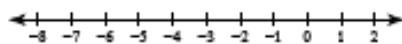
10)  $5(6 + 3r) + 7 \geq 127$



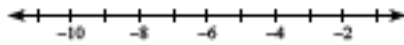
11)  $-8x + 2x - 16 < -5x + 7x$



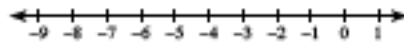
12)  $-1 - 6x - 6 > -11 - 7x$



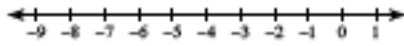
$$13) a - 6 \leq 15 + 8a$$



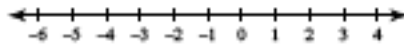
$$14) 13 + 2v - 8 + 6 > -7 - v$$



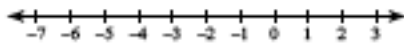
$$15) -5n - 6n \leq 8 - 8n - n$$



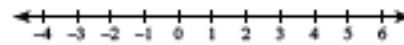
$$16) -x < -x + 7(x - 2)$$



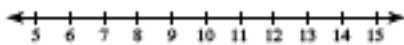
$$17) -5n + 6 \geq -7(5n - 6) - 6n$$



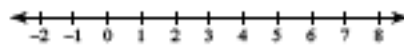
$$18) 3(p - 3) - 5p > -3p - 6$$



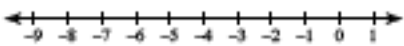
$$19) 28 - k \geq 7(k - 4)$$



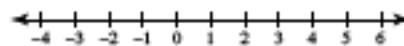
$$20) 28 - 7x \leq -4(-7x - 7)$$



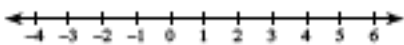
$$21) -6(1 + 7k) + 7(1 + 6k) \leq -2$$



$$22) -2(2 - 2x) - 4(x + 5) \leq -24$$



$$23) 3(1 - 2x) > 3 - 6x$$



$$24) -2(5 + 6n) < 6(8 - 2n)$$

