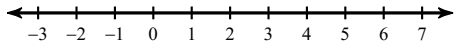


Solve and Graph inequalities

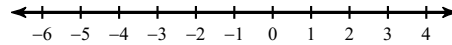
Date _____ Period _____

Solve each inequality and graph its solution. Then write the solution in interval notation.

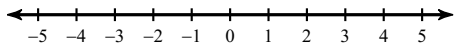
1) $-4 < -8x + 7x$



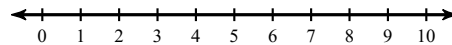
2) $5n - 1 + 8n \leq -1$



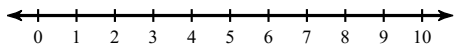
3) $1 - r + 7r < -17$



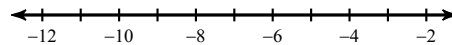
4) $-20 < -8p + 3p$



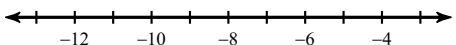
5) $x + 3 + 4 < 13$



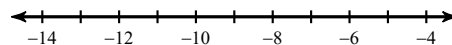
6) $6(1 + 3r) \leq -120$



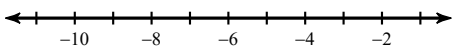
7) $-102 < 6(1 + 3m)$



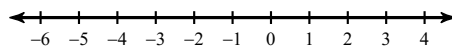
8) $268 \leq 2v + 8(-1 - 6v)$



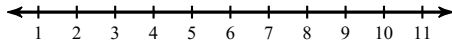
9) $3(-8 + 6b) - 7 > -85$



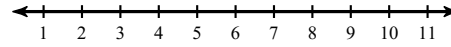
10) $179 \geq 6(1 - 7a) + 5$



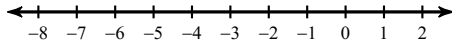
$$11) -153 > -3 - 6(1 + 3n)$$



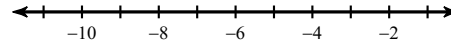
$$12) -123 \geq 3(1 - 6n)$$



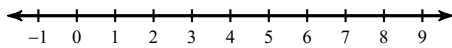
$$13) 2p - p < 4 + 3p$$



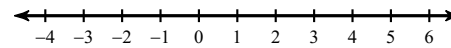
$$14) 2m - 1 > -8 + m$$



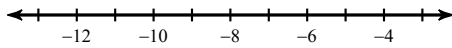
$$15) r + 3 > 9 - r$$



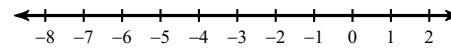
$$16) -x + 4 < -3x - 2x$$



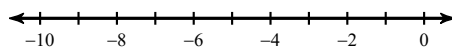
$$17) x - 2 + 3x \leq 8 + 6x$$



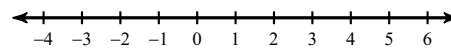
$$18) -38 - 3b > -7(1 - 4b)$$



$$19) -5n + 22 < 7(1 - 2n) + 4n$$



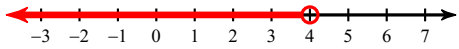
$$20) 3(7 - 3v) \leq -6v + 24$$



Solve and Graph inequalities

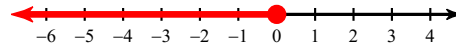
Solve each inequality and graph its solution. Then write the solution in interval notation.

1) $-4 < -8x + 7x$



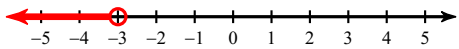
$x < 4$

2) $5n - 1 + 8n \leq -1$



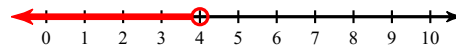
$n \leq 0$

3) $1 - r + 7r < -17$



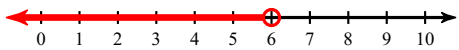
$r < -3$

4) $-20 < -8p + 3p$



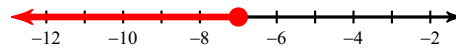
$p < 4$

5) $x + 3 + 4 < 13$



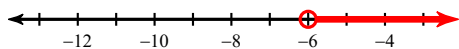
$x < 6$

6) $6(1 + 3r) \leq -120$



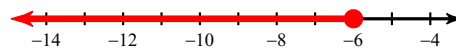
$r \leq -7$

7) $-102 < 6(1 + 3m)$



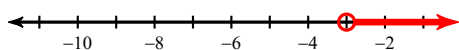
$m > -6$

8) $268 \leq 2v + 8(-1 - 6v)$



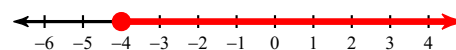
$v \leq -6$

9) $3(-8 + 6b) - 7 > -85$



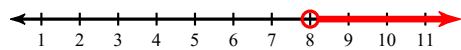
$b > -3$

10) $179 \geq 6(1 - 7a) + 5$



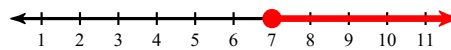
$a \geq -4$

$$11) -153 > -3 - 6(1 + 3n)$$



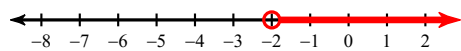
$$n > 8$$

$$12) -123 \geq 3(1 - 6n)$$



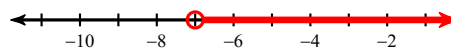
$$n \geq 7$$

$$13) 2p - p < 4 + 3p$$



$$p > -2$$

$$14) 2m - 1 > -8 + m$$



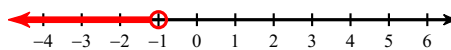
$$m > -7$$

$$15) r + 3 > 9 - r$$



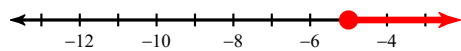
$$r > 3$$

$$16) -x + 4 < -3x - 2x$$



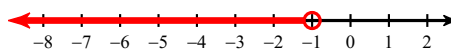
$$x < -1$$

$$17) x - 2 + 3x \leq 8 + 6x$$



$$x \geq -5$$

$$18) -38 - 3b > -7(1 - 4b)$$



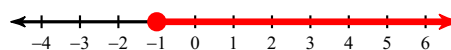
$$b < -1$$

$$19) -5n + 22 < 7(1 - 2n) + 4n$$



$$n < -3$$

$$20) 3(7 - 3v) \leq -6v + 24$$



$$v \geq -1$$