Alg

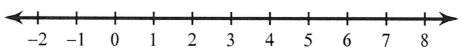
Name_____

2-9b Inequalities (switching signs)_hw

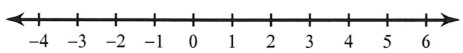
Date_____ Period____

Solve each inequality and graph its solution.

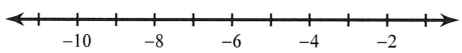
1) $-8x < -24$



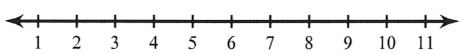
2) $5 - v > 4$



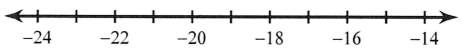
3) $1 \geq n - -5$



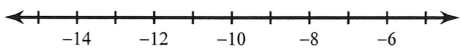
4) $-3 > -10 + x$



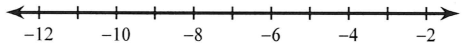
5) $-3 > \frac{n}{6}$



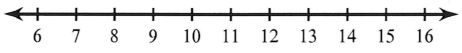
6) $\frac{n}{9} \geq -\frac{7}{9}$



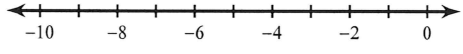
7) $8 - x < 16$



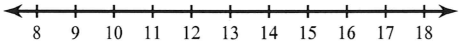
8) $-17 > -8 - n$



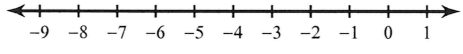
9) $-11 > n + -6$



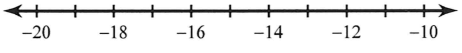
10) $-3n < -30$



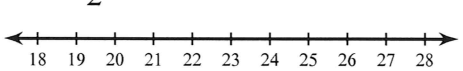
11) $22 \leq 10 - 4m$



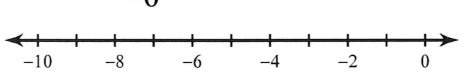
12) $70 \geq -7(7 + v)$



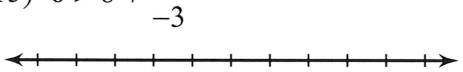
13) $\frac{n - 6}{-2} \leq -7$



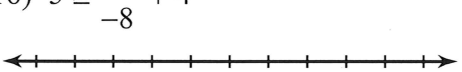
14) $2 < \frac{-8 + x}{-6}$



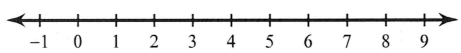
15) $6 > 8 + \frac{x}{-3}$



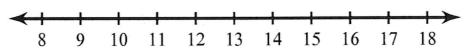
16) $5 \geq \frac{x}{-8} + 4$



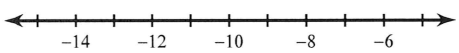
17) $20 > -5(-10 + a)$



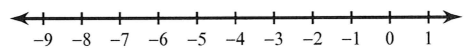
18) $-115 \leq -5(b + 9)$



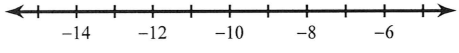
19) $6 < \dfrac{-4 + k}{-2}$



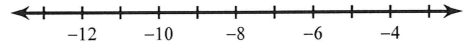
20) $\dfrac{n - 5}{-8} \geq 1$



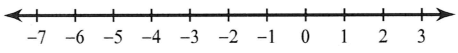
21) $2 + \dfrac{k}{-2} \geq 6$



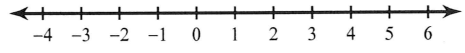
22) $1 + \dfrac{n}{-8} > 2$



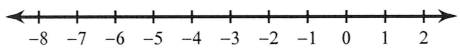
23) $-3(n - 4) + 2(-5n + 5) < 9$



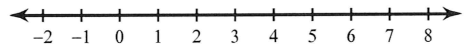
24) $20 > 5(1 - 3x) - 3(4x + 4)$



25) $-10 \leq -5(1 + 4k) - (k + 5)$



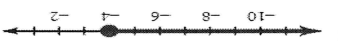
26) $-4(3m + 1) - (-2 - m) \leq -24$



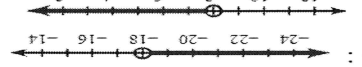
Answers to 2-9b Inequalities (switching signs)_hw

1) $x > 3$:

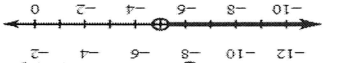
3) $n \leq -4$:



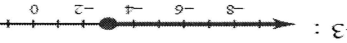
5) $n < -18$:



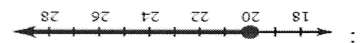
7) $x > -8$:



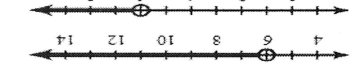
9) $n < -5$:



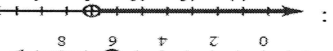
11) $m \leq -3$:



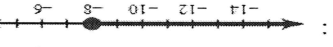
13) $n \geq 20$:



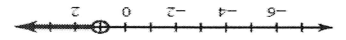
15) $x > 6$:



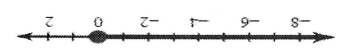
17) $a > 6$:



19) $k < -8$:



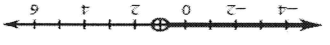
21) $k \leq -8$:



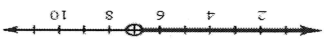
23) $n > 1$:

25) $k \leq 0$:

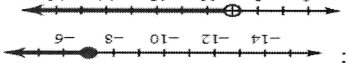
2) $v < 1$:



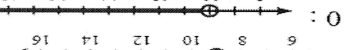
4) $x < 7$:



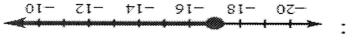
6) $n \geq -7$:



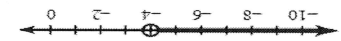
8) $n > 9$:



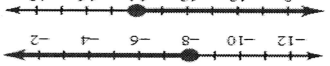
10) $n > 10$:



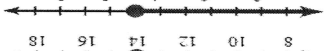
12) $v \geq -17$:



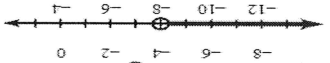
14) $x < -4$:



16) $x \geq -8$:



18) $b \leq 14$:



20) $n \leq -3$:

22) $n < -8$:

24) $x > -1$:

26) $m \geq 2$: