24 Classwork Nov. 20

N (2) $8+2x \leq 6x-20$

$-6x \quad -6x$

$8-4x \leq -20$

$-8 \quad -8$

$\frac{-4x}{-4} \leq \frac{-28}{-4}$ flip

$x \geq 7$

I (4) $9x-99 \geq 18x$

$-9x \quad -9x$

$\frac{-99}{9} \geq \frac{9x}{9}$

$-11 \geq x$ or $x \leq -11$

S (6) $28 < 4(5-2x)$

$28 < 20-8x$

$-20 \quad -20$

$\frac{8}{-8} < \frac{-8x}{-8}$ flip

$-1 > x$ or $x < -1$

G (8) $3n-10 \leq 7(2+n)$

$3n-10 \leq 14+7n$

$-7n \quad -7n$

$-4n-10 \leq 14$

$+10 \quad +10$

$\frac{-4n}{-4} \leq \frac{24}{-4}$ flip

$n \geq -6$

P (10) $2(7n-1) \geq 3(5-n)$

$14n - 2 \geq 15 - 3n$

$+3n \qquad +3n$

$17n - 2 \geq 15$

$+2 \quad +2$

$\frac{17n}{17} \geq \frac{17}{17}$

$n \geq 1$

T (12) $4(1-3n) - 14 > 4(2n+3) - 9n$

$4 - 12n - 14 > 8n + 12 - 9n$

$-12n - 10 > -1n + 12$

$+1n \qquad +1n$

$-11n - 10 > 12$

$+10 \quad +10$

$\frac{-11n}{-11} > \frac{22}{-11}$

flip

$n < -2$