

N (2) $8 + 2x \leq 4x - 20$

$$\begin{array}{r} 8 + 2x \leq 4x - 20 \\ -4x \quad -4x \\ \hline 8 - 4x \leq -20 \\ -8 \quad -8 \\ \hline -4x \leq -28 \\ \text{flip} \\ \hline -4 \leq -4 \\ x \geq 7 \end{array}$$

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

$$\begin{array}{r} 9x - 99 \geq 18x \\ -9x \quad -9x \\ \hline -99 \geq 9x \\ \text{flip} \\ \hline 9 \geq 9 \\ -11 \geq x \\ \text{or} \\ x \leq -11 \end{array}$$

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

$$\begin{array}{r} 28 < 4(5 - 2x) \\ 28 < 20 - 8x \\ -20 \quad -20 \\ \hline 8 < -8x \\ \text{flip} \\ \hline -1 > x \quad \text{or} \quad x < -1 \end{array}$$

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

$$\begin{array}{r} 3n - 10 \leq 7(2 + n) \\ 3n - 10 \leq 14 + 7n \\ -7n \quad -7n \\ \hline -4n - 10 \leq 14 \\ +10 \quad +10 \\ \hline -4n \leq 24 \\ \text{flip} \\ \hline -4 \geq -4 \\ n \geq -6 \end{array}$$

P (10)

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

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

$$\begin{array}{r} +3n \qquad \qquad \qquad +3n \\ \hline 17n-2 \geq 15 \end{array}$$

$$17n-2 \geq 15$$

$$\begin{array}{r} +2 \qquad \qquad \qquad +2 \\ \hline 17n \geq 17 \end{array}$$

$$\begin{array}{r} 17n \geq 17 \\ \hline 17 \qquad \qquad \qquad 17 \end{array}$$

$$n \geq 1$$

T (12)

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

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

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

$$\begin{array}{r} +1n \qquad \qquad \qquad +1n \\ \hline -11n-10 > 12 \end{array}$$

$$-11n-10 > 12$$

$$\begin{array}{r} +10 \qquad \qquad \qquad +10 \\ \hline -11n > 22 \end{array}$$

$$-11n > 22$$

$$\begin{array}{r} -11 \div -11 \qquad \qquad \qquad -11 \div -11 \\ \hline n < -2 \end{array}$$

$$n < -2$$