Inéquations 1 Nom_____Per_____

Résous les inéquations suivantes. Représente la solution à l'aide d'une droite numérique.

$7(5x-2) \leq 2(4+x)$

$35x - 14 \leq 8 + 2x$

$-2x \quad -2x$

$33x - 14 \leq 8$

$+14 \quad +14$

$33x \leq 22$

$x \leq \frac{22}{33} \Rightarrow x \leq \frac{2}{3}$

$\left(\frac{x}{3} < 2(5-9x)\right) \times 3$

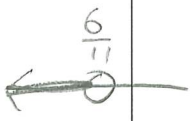
$x < 6(5-9x)$

$x < 30 - 54x$

$+54x \quad +54x$

$55x < 30$

$x < \frac{30}{55} \Rightarrow x < \frac{6}{11}$



$\left(5x - 2(8-x) \geq \frac{x-1}{3}\right) \times 3$

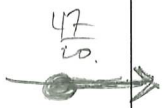
$15x - 6(8-x) \geq x - 1$

$15x - 48 + 6x \geq x - 1$

$-x \quad -x$

$20x \geq 48 - 1$

$20x \geq 47 \quad x \geq \frac{47}{20}$



$\left(\frac{17x+5}{4} \leq 3(x-7)\right) \times 4$

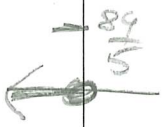
$17x + 5 \leq 12(x-7)$

$17x + 5 \leq 12x - 84$

$-12x \quad -12x$

$5x \leq -84 - 5$

$5x \leq -89 \quad x \leq -\frac{89}{5}$



$\left(\frac{25(x-3)}{9} < 4 - 2(1-x)\right) \times 9$

$25(x-3) < 36 - 18(1-x)$

$25x - 75 < 36 - 18 + 18x$

$-18x \quad -18x$

$7x < 36 - 18 + 75$

$7x < 93 \Rightarrow x < \frac{93}{7}$

$\left(\frac{11(x-3)}{8} \geq 1 - \frac{x}{2}\right) \times 8$

$11(x-3) \geq 8 - 4x$

$11x - 33 \geq 8 - 4x$

$+4x \quad +4x$

$15x \geq 33 + 8$

$15x \geq 41 \quad x \geq \frac{41}{15}$