

$$8. \quad \frac{3x-2}{5} + 2 \geq \frac{4x-1}{15}$$

$$\overset{3}{15} \left( \frac{3x-2}{\cancel{5}} \right) + 15(2) \geq \overset{1}{15} \left( \frac{4x-1}{\cancel{15}} \right)$$

$$9x - 6 + 30 \geq 4x - 1$$

$$9x + 24 \geq 4x - 1$$

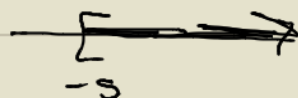
$$9x - 4x \geq -1 - 24$$

$$5x \geq -25$$

$$\frac{5x}{5} \geq \frac{-25}{5}$$

$$x \geq -5$$

$$[-5, \infty)$$



### SOLVING LINEAR INEQUALITY WITH 3 SIDES

1. GET RID OF PARENTHESES

2. GET RID OF FRACTIONS

3. GET EVERYTHING WITH AN X IN MIDDLE, NUMBERS ON OTHER TWO SIDES

4. DIVIDE ALL 3 SIDES BY THE NUMBER IN FRONT OF THE X

NOTE: IF YOU MULTIPLY OR DIVIDE ALL 3 SIDES BY A NEGATIVE NUMBER, FLIP INEQUALITY SYMBOLS

$$9. \quad 8 \leq 2x - 4 < 23$$

$$8 + 4 \leq 2x < 23 + 4$$

$$12 \leq 2x < 27$$

$$\frac{12}{2} \leq \frac{2x}{2} < \frac{27}{2}$$

$$6 \leq x < \frac{27}{2}$$