

MULTI – STEP INEQUALITIES

Solve the following inequalities

One of them is done for you :

$$\begin{array}{r} -6x - 4 \leq 2(x - 10) \\ -6x - 4 \leq 2x - 20 \\ +6x \quad +6x \\ \hline -4 \leq 8x - 20 \\ +20 \quad +20 \\ \hline 16 \leq 8x \\ \frac{16}{8} \leq \frac{8x}{8} \\ 2 \leq x \end{array}$$

$$3(6x + 2) < 9$$

$$\frac{2x+1}{3} \geq 5$$

$$\frac{3x}{4} + 2x > 2$$

$$25 + \frac{2x}{3} \leq 35 - x$$

$$\frac{4x+11}{2} \geq 6$$

$$8(1 + 2x) < 32$$

$$\frac{3x}{7} + x \leq 30$$

$$\frac{7x-4}{6} > 4$$

$$5(4x - 3) \geq 25$$

$$4(2x - 8) > 16$$

$$\frac{8x+14}{11} > 10$$

$$x + \frac{5x}{6} > 33$$

$$\frac{3(x-10)}{9} < 6$$

$$2(4x + 8) \geq 40$$

$$10x + 6 \leq 8x - 12$$

$$15x + 35 \geq 7x - 21$$

$$7(3x + 10) < 19x$$

$$9x + 21 \geq 2x - 14$$

$$\frac{3x}{2} + 5x \leq 26$$

$$8(2x - 5) < 72$$

