

Name _____

SOLVING INEQUALITIES #3

Directions: In the following inequalities, solve for x. Show your steps and write your answer in the space provided.

Examples:

$$\begin{array}{r} x + 11 > -5 \\ -11 \quad -11 \end{array}$$

$$\underline{x > -16}$$

$$\begin{array}{r} -2x + 10 \leq 100 \\ -10 \quad -10 \end{array}$$

$$\begin{array}{r} -2x \leq 90 \\ -2 \quad -2 \end{array}$$

$$\underline{x > -45}$$

1) $8x + 40 < 120$

2) $16x + 420 > -100$

3) $-5x + -30 > 80$

4) $x + 20 \leq 180$

5) $-2x + 15 \geq 90$

6) $130 + 25x \leq 530$

7) $-4x + 20 < 100$

8) $10x + 30 > 360$

9) $25 + 6x < 625$

10) $-20x + 200 \leq 1,000$

11) $100x + 670 > 670$

12) $25 + -5x \leq 225$
