

9.3 Solving Multistep Inequalities

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- the same process to solve a multistep inequality is the same for solving equations

Ex.

$$(a.) \frac{x}{4} + 3 > 8$$

~~-3~~ ~~-3~~

$$\frac{x}{4} > 5$$

$$x > 20$$

$$(b.) -3x - 10 \leq 5x + 38$$

~~-5x + 10~~ ~~-5x + 10~~

$$-8x \leq 48$$

$$x \geq -6$$

remember to reverse the inequality symbol when multiplying or dividing by a negative #.

$$(c.) -2(x+3) \leq 10x + 18$$

~~-2x - 6~~ ~~10x + 18~~

~~-10x + 6~~ ~~-10x + 6~~

$$-12x \leq 24$$

$$x \geq -2$$

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