

### #3: Solving Equations w/out Algebra Tiles

12-74 a.)

$$x+1-2 - (-2x+1) = 5 - (-x+1)$$

$$x+1-2+2x-1 = 5+x-1$$

$$3x-2 = x+4$$

$$\begin{array}{r} -x \\ -x \end{array}$$

$$2x-2 = 4$$

$$\begin{array}{r} +2 \\ +2 \end{array}$$

$$\frac{2x}{2} = \frac{6}{2}$$

$$\boxed{x=3}$$

① Copy the problem

② Clear the  $-()$  by distributing the negative

③ Combine Like Terms (CLT)

④ Isolate the variable (get  $x$  on one side)

⑤ Move units to the other side of  $=$

⑥ Solve for  $x$ .

\* Do not need to draw pictures for equations.

\* Do need to draw pictures for "Which is Greater?" + expression mats