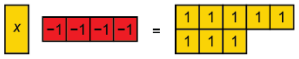
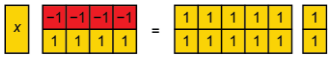
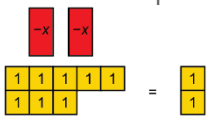
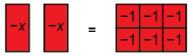
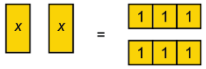
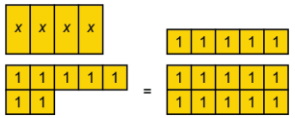
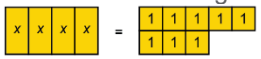
Patterns and Relations

Activity 5 Assessment

Solving Linear Equations Using Models

Solving Linear Equations using Models			
Represents equations using algebra tiles These tiles show the equation $x - 4 = 8$. 	Solves one-step equations using a model and verifies the solutions To solve $x - 4 = 8$, I added 4 one-tiles to each side.  When I removed the zero pairs, what I had left was $x = 12$. To check my answer, I replaced the x-tile in my original model with 12 one-tiles. When I removed zero pairs, I ended up with 8 one-tiles on the left side, which matches the right side.	Solves multi-step equations using a model and verifies the solutions These tiles represent $-2x + 8 = 2$.  I added 8 negative one-tiles to each side to create zero pairs on the left. When I removed the zero pairs, I had:  I flipped the tiles on both sides and organized them in 2 equal groups. It looked like this:  I could see that $x = 3$.	Creates an equation to represent a word problem, solves it using a model, and explains what the solution represents I used x to represent the cost of each pair of socks. My equation was $4x + 7 = 15$.  I added 7 negative one-tiles to each side. After removing zero pairs, I got:  I grouped the tiles on each side in 4 equal groups and saw that $x = 2$. Each pair of socks cost $2.
Observations/Documentation			