## Activity 4 Assessment Solving Linear Equations Using Models

Solving Linear Equations using Models			
Represents equations using algebra tiles	Solves one-step equations using a model and verifies the solutions	Solves multi-step equations using a model and verifies the solutions	Creates an equation to represent a word problem, solves it using a model, and explains what the solution represents
These tiles show the equation $x - 4 = 8$ . x = -1 - 1 = $\frac{1 + 1 + 1 + 1}{1 + 1 + 1}$	To solve $x - 4 = 8$ , I added 4 one-tiles to each side. <b>x</b> $\frac{1}{1 + 1 + 1} = \frac{1}{1 + 1 + 1 + 1} \frac{1}{1 + 1}$ When I removed the zero pairs, what I had left was $x = 12$ . To check my answer, I replaced the <i>x</i> -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.	These tiles represent $-2x + 8 = 2$ . <b>x</b> <b>x</b> <b>x</b> <b>x</b> <b>x</b> <b>x</b> <b>x</b> <b>x</b>	I used x to represent the cost of each pair of socks. My equation was 4x + 7 = 15. x + x + x 1 + 1 + 1 + 1 1 + 1 + 1 + 1 I added 7 negative one-tiles to each side. After removing zero pairs, I got: x + x + x = 1 + 1 + 1 + 1 I grouped the tiles on each side in 4 equal groups and saw that $x = 2$ . Each pair of socks cost \$2.
Observations/Documentation			