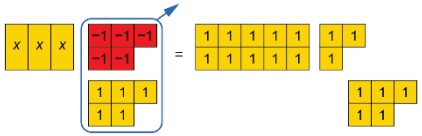
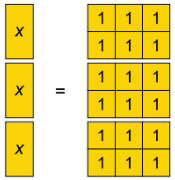
Patterns and Relations

Activity 9 Assessment

Modelling and Solving Multi-Step Linear Equations

Modelling and Solving Multi-Step Linear Equations

Creates an equation involving two operations	Solves a multi-step equation involving whole numbers using concrete materials or informal solution methods	Solves multi-step equations involving whole numbers symbolically	Verifies that the solution to a multi-step equation is correct
I started with the equation $x = 6$. I multiplied both sides by 3. $3x = 18$ Then, I subtracted 5 from each side. $3x - 5 = 13$	I used algebra tiles to solve $3x - 5 = 13$. I added 5 yellow 1-tiles to each side.  I removed zero pairs.  I arranged the tiles in 3 equal groups.  $x = 6$	$3x - 5 = 13$ $3x - 5 + 5 = 13 + 5$ $3x = 18$ $\frac{3x}{3} = \frac{18}{3}$ $x = 6$	To check if my solution is correct, I substituted the number I got for x in the original equation and compared each side. L.S. = 3x – 5 = 3(6) – 5 = 18 – 5 = 13 R.S. = 13 The solution is correct.

Observations/Documentation