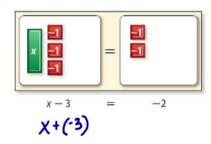
Hands-On Activity 2

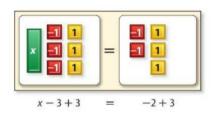


Solve x-3=-2 using algebra tiles. x+(-3)=-2Remember a 1-tile and -1 tile combine to make a zero pair. You can add or subtract zero pairs from either side of an equation without changing its value.

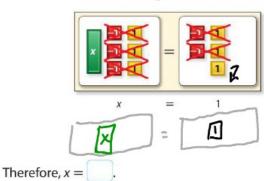
Step 1 Model the equation.



Step 2 Add three 1-tiles to the left side of the mat and 1-tiles to the right side of the mat to form zero pairs on each side of the mat.



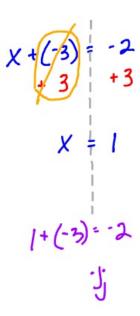
Step 3 Remove all of the zero pairs from each side. There is 1-tile on the right side of the mat.



-3 = -2Check









Investigate

Use Math Tools Work with a partner to solve each equation. Use algebra tiles. Show your work using drawings.

6.
$$-2 = x + 1$$
 $x =$



Analyze and Reflect

Work with a partner to complete the table. The first one is done for you.

	Equation	Related Equation
	x+3=4	×=4-3
9.	6+x=10	
10.	x+3=-1	
11.	6+x=-7	

On Your Own

Create

- 12. Construct an Argument Write a rule that you can use to solve addition equations without using models or a drawing.
- 13. HOW can bar diagrams or algebra tiles help you solve an equation?