Open the TI-Nspire document Visualizing_Equations.

The two sides of an equation can be thought of as the two pans on a balance scale. This activity uses that visual image to allow you to explore solving equations.

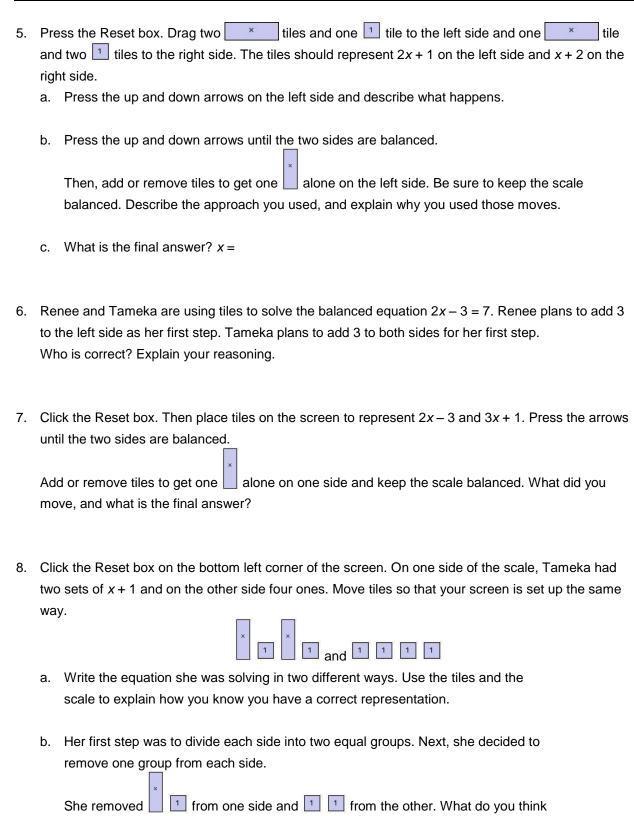
Click on the question mark on bottom right of the screen to see directions.

◀ 1.1 1.2 ▶ Visualizingons	×
Visualizing Equations	
Drag shapes onto each side of the scale to build a linear equation.	
Watch the expressions at the top of the screen and watch the scale lines.	

Move to page 1.2.

Press ctrl ▶ and ctrl ◀ to navigate through the lesson.

- 1. a. Drag two tiles and one tile to the left side, and describe the changes that occur on the screen.
 - b. What expression is represented on the left side?
 - c. Place tiles on the right side to make it match the left side. How can you tell that the scale is balanced?
- 2. a. Describe what happens when you add two tiles to the left side and add two tiles to the right side.
 - b. What is the new expression on the left side?
 - c. What is the new expression on the right side?
- 3. Describe what happens when you remove one 1 from either side of the equation.
- 4. Press R or click (R)eset in the lower left corner of the screen to reset the page.
 - a. Place one tile on the left side. What is the expression on the left side?
 - b. Drag one tile to the left side. What happens as a result?
 - c. Why does this happen?



about her strategy?