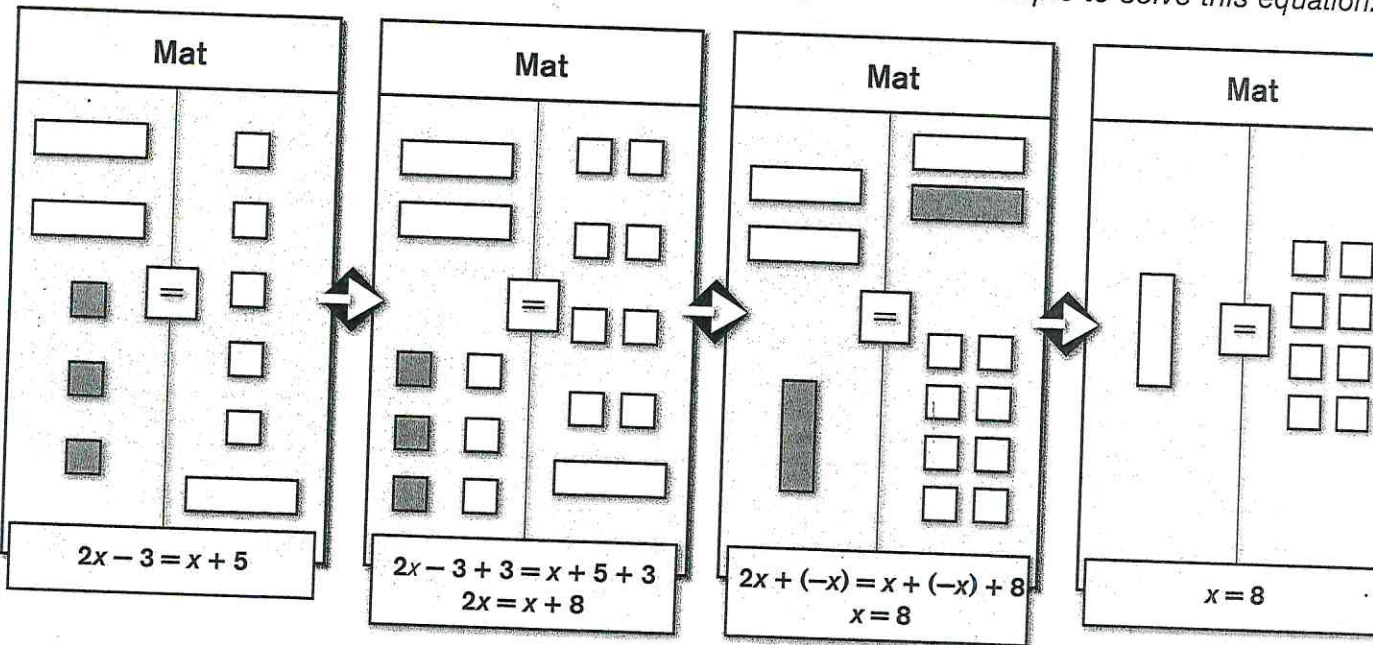


Often linear equations have variables on both sides of the equal signs. For example, $2x - 3 = x + 5$. Again, we can use Algebra Tiles and apply the Zero Principle to solve this equation.



Use Algebra Tiles and a work mat to solve the following linear equations.

1. $2x + 4 = 3x + 2$ _____
 2. $x + 4 = 2x - 6$ _____
 3. $3x + 3 = 4x - 1$ _____
 4. $2x - 3 = x + 2$ _____
 5. $3x - 3 = 2x + 2$ _____
 6. $4x - 3 = 3x - 1$ _____
 7. $x + 4 = 3x - 2$ _____
 8. $x + 4 = 3x$ _____
 9. $2x + 8 = 4x + 5$ _____
10. Explain the steps you used to find the value of x in Problem 6. _____

~~Problems 1 through 6 are all similar; however, problems 7, 8, and 9 have a slight variation.~~

11. Explain the steps you used to find the value of x in Problem 8. _____

