

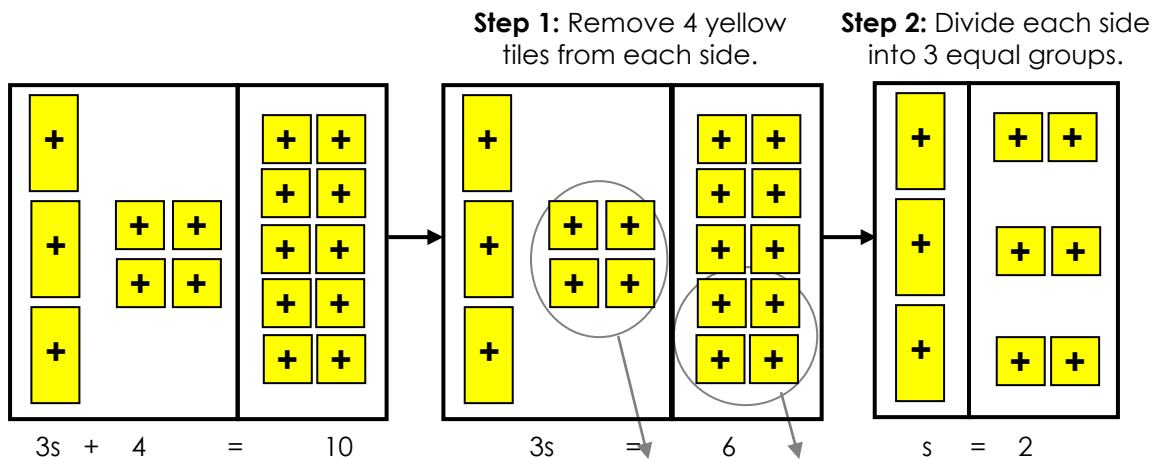
## 2-8 Hands-On Lab Model Two-Step Equations

<p><b>Key:</b></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"><span style="background-color: yellow; border: 1px solid black; padding: 2px 5px;">+</span> = 1</div> <div style="text-align: center;"><span style="background-color: red; border: 1px solid black; padding: 2px 5px;">-</span> = -1</div> <div style="text-align: center;"><span style="background-color: yellow; border: 1px solid black; padding: 2px 5px;">+</span> + <span style="background-color: red; border: 1px solid black; padding: 2px 5px;">-</span> = 0</div> <div style="text-align: center;"><span style="background-color: yellow; border: 1px solid black; padding: 2px 5px;">+</span> = variable</div> </div>	<p><b>Remember:</b> You can perform the same operation with the same numbers on both sides of an equation without changing the value of the equation.</p>
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You can use algebra tiles to model and solve two-step equations. To solve a two-step equation, you use two different operations.

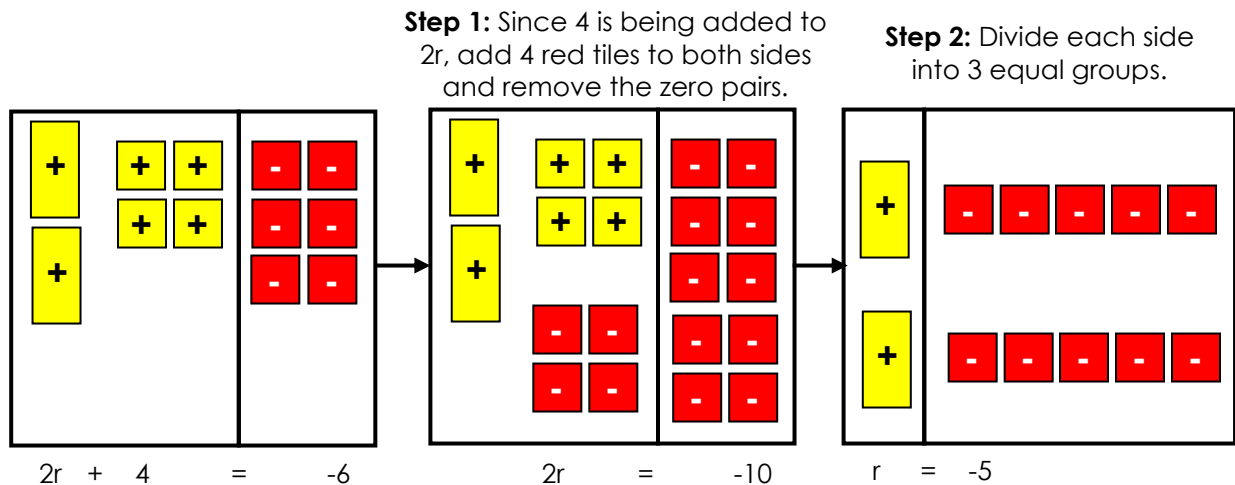
### Activity 1

Use algebra tiles to model and solve  $3s + 4 = 10$ .



### Activity 2

Use algebra tiles to model and solve  $2r + 4 = -6$ .



Name \_\_\_\_\_ Class \_\_\_\_\_

Use algebra tiles to model and solve each equation. Make sure to draw the model. (2 pts each)

1.  $2x + 3 = 5$

2.  $4p - 3 = 9$

3.  $5r - 6 = -11$

4.  $3n + 5 = -4$

5.  $6b + 8 = 2$

6.  $2a + 2 = 6$

7.  $4m + 4 = 4$

8.  $7h - 8 = 41$

9. Adam walked dogs five times a week and got paid the same amount each day. One week his boss added on a \$15 bonus. That week Adam earned \$90. What was his daily salary? Model and solve an equation to solve. (4 pts)