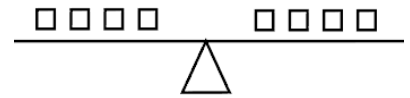


# Thinking about Keeping a Scale Balanced

- For each question start with the balance scale set up as illustrated at the right.
- Then perform the action described.
- Decide if the action creates a balanced scale or unbalanced scale. If the scale is unbalanced show which way the balance will tilt.



Action	Balanced or Unbalanced	Picture of Balance
1. Three red squares are added to the right side.	1. <b>Unbalanced</b>	1.
2. One yellow and one red square are added to the right side.	2. <b>Balanced</b>	2.
3. One yellow squares is removed from the left side and one yellow square is removed from the right side.	3. <b>Balanced</b>	3.
4. Two red squares are added to the right side of the scale and two yellow squares are added to the left side.	4. <b>Unbalanced</b>	4.
5. Multiply the number of items on each side by two.	5. <b>Balanced</b>	5.
6. Two red squares and two yellow squares are added to the left side of the scale.	6. <b>Balanced</b>	6.
7. A red square is added to the left and a yellow square is removed from the right.	7. <b>Balanced</b>	7.
8. The number of items on each side is cut in half.	8. <b>Balanced</b>	8.
9. Two yellow squares are removed from the left and two yellow squares are added to the right side of the scale.	9. <b>Unbalanced</b>	9.
10. Two red squares are removed from the left and two red squares are removed from the right side of the scale.	10. <b>Balanced</b>	10.
11. One zero pair is added to the left side and one zero pair is added to the right side of the scale.	11. <b>Balanced</b>	11.
12. Two yellow squares are added to the right side and two red squares are added to the left side of the scale.	12. <b>Unbalanced</b>	12.
13. One red square is added to each side of the scale.	13. <b>Balanced</b>	13.
14. Double the number of squares on the left and divide the number of squares on the right by two.	14. <b>Unbalanced</b>	14.

Summarize the steps or actions that lead to a balanced scale. **To keep a scale balanced you can added or subtract the same number from each side; multiply or divide both sides by the same number, or add one color to one side and remove the opposite color from the other side.**