

**Lesson Summary**

The value of a ratio can be determined using a ratio table. This value can be used to write an equation that also represents the ratio.

Example:

|   |    |
|---|----|
| 1 | 4  |
| 2 | 8  |
| 3 | 12 |
| 4 | 16 |

The multiplication table can be a valuable resource to use in seeing ratios. Different rows can be used to find equivalent ratios.

**Problem Set**

A cookie recipe calls for 1 cup of white sugar and 3 cups of brown sugar.

Make a table showing the comparison of the amount of white sugar to the amount of brown sugar.

| White Sugar ( <i>W</i> ) | Brown Sugar ( <i>B</i> ) |
|--------------------------|--------------------------|
|                          |                          |
|                          |                          |
|                          |                          |
|                          |                          |
|                          |                          |

1. Write the value of the ratio of the amount of white sugar to the amount of brown sugar.
2. Write an equation that shows the relationship of the amount of white sugar to the amount of brown sugar.
3. Explain how the value of the ratio can be seen in the table.
4. Explain how the value of the ratio can be seen in the equation.

Using the same recipe, compare the amount of white sugar to the amount of total sugars used in the recipe.

Make a table showing the comparison of the amount of white sugar to the amount of total sugar.

| White Sugar ( $W$ ) | Total Sugar ( $T$ ) |
|---------------------|---------------------|
|                     |                     |
|                     |                     |
|                     |                     |
|                     |                     |
|                     |                     |

5. Write the value of the ratio of the amount of total sugar to the amount of white sugar.
6. Write an equation that shows the relationship of total sugar to white sugar.