

Ratio Tables to Equations Worksheet

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.

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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 (W)	Brown Sugar (B)
1	3
2	6
3	9
4	12
5	15

1. Write the value of the ratio of the amount of white sugar to the amount of brown sugar.

$$\frac{1}{3}$$

2. Write an equation that shows the relationship of the amount of white sugar to the amount of brown sugar.

$$B = 3W \text{ or } W = \frac{1}{3}B$$

3. Explain how the value of the ratio can be seen in the table.

The values in the first row show the values in the ratio. The ratio of the amount of brown sugar to the amount of white sugar is 3:1. The value of the ratio is $\frac{3}{1}$.

4. Explain how the value of the ratio can be seen in the equation.

The amount of brown sugar is represented as B in the equation. The amount of white sugar is represented as W . The value is represented because the amount of brown sugar is three times as much as the amount of white sugar, or $B = 3W$.