

Representing Ratios

There are many ways to compare eggs to cups of flour:

Part to Part	Part to Whole	Whole to Part
eggs to flour	eggs to total items	total items to eggs
3 to 5 3:5 $\frac{3}{5}$	3 to 8 3:8 $\frac{3}{8}$	8 to 3 8:3 $\frac{8}{3}$
or flour to eggs	or flour to total items	or total items to flour
5 to 3 5:3 $\frac{5}{3}$	5 to 8 5:8 $\frac{5}{8}$	8 to 5 8:5 $\frac{8}{5}$

You can also use the terms “for each” and “for every” to describe ratios. For example:

3 eggs for every 5 cups of flour

3 eggs for each 5 cups of flour

Sometimes, you may just fill in a table:

Eggs	Flour	Total # Ingredients
3	5	8
6	10	16
9	15	24

Handwritten annotations: A large bracket on the left side of the table spans the three rows. Inside this bracket, there are three smaller brackets. The first is labeled 'x2' and spans the first two rows. The second is labeled 'x3' and spans the first three rows. The third is labeled 'x2' and spans the last two rows. On the right side of the table, there are three smaller brackets labeled 'x2' that each span one row.

Record below some observations you can make about the relationships you see in the table above?

The original ratio increased by x2,
then by x3