

Part 2-1 → Introduction to Ratios and Proportional Relationships

Ratios and Proportional Relationships are all about comparing 2 items

Really it's all about Chocolate Milk 😊

A ratio is like 3 scoops of powder to 4 ounces of milk



can be written 3 ways

$$\frac{3}{4} \text{ or } 3:4 \text{ or } 3 \text{ to } 4$$

The KEY is ORDER MATTERS!

$$\text{"} \frac{3}{4} \text{ } \neq \frac{4}{3} \text{ " } \quad 3:4 \text{ } \neq 4:3 \text{ " } \quad 3 \text{ to } 4 \text{ } \neq 4 \text{ to } 3 \text{ "}$$

There is a proportional relationship when there is a constant balance between the 2 items

Really, it is all about Chocolate Milk ☺

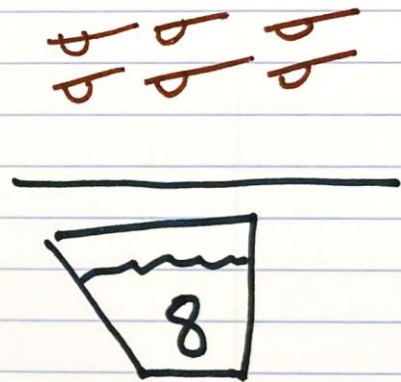
3 scoops
to
4 ounces of milk

would
be the
same
flavor as

6 scoops
to
8 ounces of milk



same
flavor!



$$\frac{3}{4} = \frac{6}{8}$$

ONE MORE note...

Mixed Numbers are **NOT A THING**
when dealing with ratios

we spent a lot of time in unit 1
learning that $1\frac{3}{4} = \frac{7}{4}$

But if you like 7 scoops of powder
for every 4 ounces of milk, you
MUST use form $\frac{7}{4}$ and not $1\frac{3}{4}$

Again, Mixed Number are just
NOT A THING
when dealing with ratios