

Example: 1 is to 1.5 as 2 is to <u>3</u>

There are multiple ways of representing this concept. For example:

$$\frac{1}{1.5} = \frac{2}{x}$$
  
or  
 $1:1.5$  as  $2:x$ 

Which method of representing equivalent ratios do you prefer? \_\_\_\_? What do you know about equivalent ratios? <u>That both are equal – that you</u> can have a multiple of one side on the other side. Can you try to solve this ratio? <u>In this case, I can multiply both sides by 1.5</u> and by x (the common denominator.)  $\frac{1}{1.5}(1.5x) = \frac{2}{x}(1.5x)$  so x = 3 Application: Similar Geometric Shapes (continued)



Recipe to make pasta:

A simple recipe to make pasta is to use one egg and 1.5 cups of Flour.

The family is coming to dinner and you have 2 eggs! How much flour should you use?

## 3 cups of flour

There are many ways to set up this information:

 $\frac{1}{2} = \frac{1.5}{x}$   $\leftarrow$  In this example, the eggs are on the left, and the <u>first</u> recipe represented by the <u>numerators</u> of the fractions.

You can also think of it in table form if you like:

	eggs	flour
recipe 1	1	1.5
recipe 2	2	x

How many ways do you think you could set up the information? [hint: in how many ways can you interchange the titles in the rows and columns of the table?]

