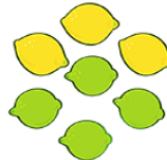


Activity 1 Assessment

Introducing Ratios

Introducing Ratios

Represents and records ratios symbolically.

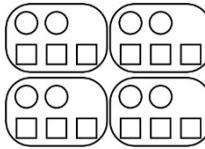


"The ratio of lemons to limes is 3:4. The ratio of limes to lemons is 4:3. The ratio of lemons to all fruit is 3:7 or $\frac{3}{7}$. The ratio of limes to all fruit is 4:7 or $\frac{4}{7}$."

Represents and creates equivalent ratios.

Is 2:3 equivalent to 8:12?

"I built a 2 to 3 ratio with circles and squares. I repeated the pattern until I had 8 circles. I counted to see that I had 12 squares, so the ratios are equivalent."



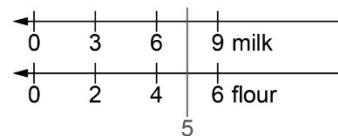
"Or I can multiply each term in the first ratio by 4 to get the corresponding term in the second ratio, so the ratios are equivalent."

Represents and creates in-between ratios.

A recipe calls for milk and flour in the ratio 3:2. If you use 5 cups of flour, how many cups of milk do you use?

"I multiplied the number of cups of milk and flour by 2 and by 3 to get 6 cups of milk and 4 cups of flour, and then 9 cups of milk and 6 cups of flour. Since 5 is halfway between 4 and 6, the number of cups of milk is halfway between

6 and 9, or $7\frac{1}{2}$."



Flexibly solves problems involving ratios.

The ratio of dogs to cats in the animal shelter is 8:12. Show the comparison using percents.

"The whole is $8 + 12 = 20$. Since percent is "out of 100", I multiply each term in the ratio by 5 because $5 \times 20 = 100$. $8 \times 5:12 \times 5$, or 40:60. 40% of the animals are dogs and 60% are cats."

Observations/Documentation