Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Ratios and Proportions/Ratios/6.RP.1 – Class notes**

Turn and Talk:

1. Have you ever had Lucky Charms cereal?
2. Do you think there are there more marshmallows or oat pieces in a box of Lucky Charms? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I have divided up a box of Lucky Charms into small baggies. Count your marshmallows and oats and record on class chart. Then we will add together to come up with a guess for our box.

1. Predict how many marshmallows pieces are in 1 box. \_\_\_\_\_\_\_\_
2. Predict how many oat pieces are in 1 box. \_\_\_\_\_\_\_\_

🡪 There are \_\_\_\_\_\_\_ marshmallow pieces and \_\_\_\_\_\_\_ oat pieces in 1 box of Lucky Charms.

A **ratio** is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

We can write a ratio in 3 ways using,

 1) a fraction

 2) the word “to”

 3) a colon

Write a ratio comparing # of pizzas to # of people for each picture.

*Picture #1* *Picture #2*

Talk to your partner

* How are the ratios above alike?
* Does the order matter when writing a ratio?

**Partner Work:**

***Use the picture to write a ratio in 3 ways***

***comparing # of lions and # of birds. Explain what this ratio means.***

****

1. Write in simplest form the ratio of Biking to Basketball.
2. Write in simplest form the ratio of Christian’s time spent running

 to total hours of activities.

**SUMMARY**

1. A ratio is a comparison of two different \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. We can write a ratio in \_\_\_\_\_\_ different ways.

 3) Ratios can be written as

 🡪

* + -
		-
1. Write a ratio comparing number of boys to girls in our class in 3 different ways.



ASSESSMENT:

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Classwork**

**RP.1 - I can use a variety of representations for ratios (pictures, illustrations, etc.).**

 **I can write a ratio in different forms – as a fraction (a/b), with a colon (a:b), and in word form (a**

 **to b)**

 **I can use models and pictures to develop a ratio.**

**Simplify the following fractions:**





1. Write a ratio as a fraction in simplest form comparing peppers to pineapples.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Write the ratio of peppers to pineapples in two different ways than a fraction.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



1. Angela has 6 quarters, 3 nickels and 12 dimes in her purse. Write a ratio in three ways to show the relationship of dimes to quarters.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Maria has read many books over the school year and keeps track of these books in the table below.

|  |  |
| --- | --- |
| **Types of Book** | **# of Books**  |
| Fantasy |  6 |
| Non-Fiction |  4 |
| Mystery  |  10 |

1. Find the ratio of mystery books to fantasy books.
2. Find the ratio of non-fiction books to total books.
3. Write a sentence to explain the meaning of the ratio in part (b).