

ANSWER KEY

CCSS: 6.RP.1

Essential Question:

How do we speak the language of ratios?

What does a ratio mean?

When is it useful to be able to relate one quantity to another?

Mathematical Practices:

SMP 2: Students will understand the relationship between two quantities in order to express them in ratio form

Name:

Date:

Period:

Objective: I will be able to understand the concept of a ratio and how to describe a relationship between two groups

DO NOW:

Answer the following questions to the best of your ability:

1. What is a ratio?

A ratio is a relationship between two comparable groups (5 cats : 6 dogs \Rightarrow 5:6. 11 animals total)

2. Why do we use ratios?

We use ratios to compare two similar groups in order to solve problems.

3. What are some examples of real-world ratios?

1. I have 3 cats and 2 dogs. I have 5 animals total = 3:2

2. 3 people play soccer and 6 people play basketball. 9 people play sports = 3:6

Vocabulary

Ratio: A relationship between two comparable groups

Part to Part: (Using example from #1): 5 cats : 6 dogs \Rightarrow 5:6 or 6:5
Comparing two parts of our ratio \rightarrow

Part to Whole: (Using example #1): 5 cats : 11 animals or 6 dogs : 11 animals
Comparing 1 part to the whole \rightarrow 5:11 or 6:11

Whole to Part: (Using example #1): 11 animals : 5 cats or 11 animals : 6 dogs
Comparing the whole to 1 part: \rightarrow 11:5 11:6

Challenge

1. 1 out of 10 people are left-handed. Explain in words what this means and what does this tell us about the people who are right handed. This means that out of 10 people, only 1 person is left-handed. This also means that 9 people are right-handed.
 $10 - 1 = 9$.

2. Based on the information above, how many people are left handed if there are 40 people?

If 1 person out of 10 people are left-handed, then 4

people out of 40 people are left-handed. ($1 \times 4 = 4$, $10 \times 4 = 40$)
 \uparrow \uparrow
 part whole