

Ratio Questions

Please complete the following questions:

1. Write each ratio in 2 ways (fraction and ratio form)

a) Numbers to letters

G 4 5 2 Q C Y L R

b) Green triangles to red triangles



2. Identify the items being compared in each ratio?

a) $\frac{2}{6}$



b) 8:2



c) 6 to 8

d) 6:2

3. Find a ratio to show the numbers of:

a) dogs to cats

b) cats to dogs

c) dogs to animals

d) animals to cats



4. By using the same number of green and red circles below, model the ratio in three different ways. (You can draw out the different ways on your paper).



5 Find all the ratios for the lemonade recipe.

Lemonade Recipe

6. Which juice do you think will have a stronger lemonade flavor? 3 cans of water for 1 can of concentrate or 4 cans of water for 2 cans of concentrate?

4 Cups of water

1 cup of lemon juice

1 cup of sugar

$$3:4 = 12:16$$

$\times 4$

$$\frac{3}{4} = \frac{12}{16}$$

$\times 4$

$$3:4 = 15:20$$

$\times 5$

$$\frac{3}{4} = \frac{15}{20}$$

$\times 5$

Equivalent Ratios:

To find equivalent ratios, you need to multiply your first and second number in the ratio by the same number.

If you are finding the ratio in fraction form, it is the same rule as above. Whatever you multiply your numerator by, you need to multiply your denominator by that same number.

This means that the ratio 3:4 is equivalent to the ratios 12:16 and 15:20. Just like $\frac{3}{4}$ is equivalent to $\frac{12}{16}$ and $\frac{15}{20}$.

Equivalent Ratio questions:

1. Write 2 equivalent ratios for each ratio identified below.

- a) 4:1 b) 3:2 c) 2:6 d) 7:3
e) 5:3 f) 1:1 g) 6:5 i) 1:3

2. Are the following pairs of ratios equivalent? Yes or no?

- a) 4 to 5 and 16 to 30 b) 18 to 3 and 6 to 1

3. My dogs name is Bella. The ratio of vowels to consonants in her name is 2:3.

- a) See if you can think of other words that have that same 2:3 ratio.
b) Think of your own vowel to consonant ratio and find 2 words that go with it.

4. Using 30 as one of the terms, write an equivalent ratio.

- a) 5:6 b) 15:3 c) 7:10 d) 9:2

5. Denver is a hockey coach. During a practice drill, the ratio of players to pucks is 10:3. How many pucks will be needed if there are 30 players?

6. Sara is planting a very large garden in her backyard. She has 5 cucumber seed packages for every 7 carrot seed packages. Fill in the table below to show how many carrot seed packages Sara needs for 10, 15 and 20 cucumber seed packages. Identify the ratio.

Cucumber seeds	Carrot seeds	Ratio
5	7	5:7
10		
15		
20		