

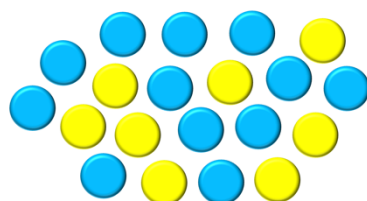
Equivalent Ratios - Division



In this tutorial, I'll use division to write equivalent ratios.

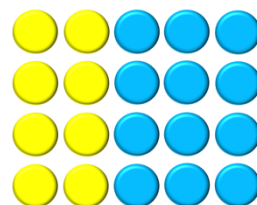
I'll begin by recalling what I understand about writing and reading ratios.

- How would I explain writing the ratio of yellow counters to blue counters?
- How would I read my ratio of yellow counters to blue counters?



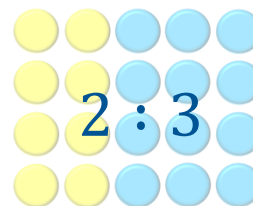
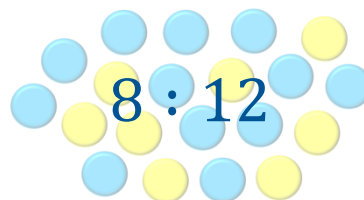
I'll rearrange my set of yellow and blue counters.

- How is the ratio of yellow counters to blue counters the same as the previous example?
- Can I think of another way to describe the ratio of yellow counters to blue counters?



The ratios 8 : 12 and 2 : 3 are equivalent ratios because they represent the same comparison.

- How would I use the two sets of counters to explain and illustrate the same comparison?



I'll compare the first term written in each ratio.

- How would I explain the change in the first term using a division calculation?

$$8 : 12 \qquad 2 : 3$$

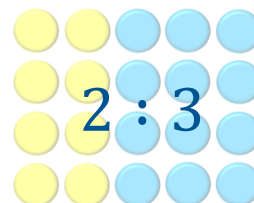
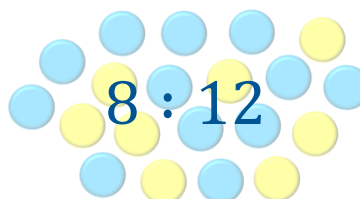
I'll compare the second term written in each ratio.

- How would I explain the change in the second term using a division calculation?

$$8 : 12 \qquad 2 : 3$$

Equivalent ratios can be formed by dividing the terms of the ratio by the same number.

- How would I use the two sets of counters to explain and illustrate my division calculation?





- How would I explain and demonstrate using division to form these equivalent ratios?

$$16 : 10 = 8 : 5$$

A student used division to write the equivalent ratios shown here.

- How would I explain and demonstrate performing their calculation?

$$18 : 36 = 2 : 4$$

A classmate also used division to represent the ratio $18 : 36$ as the equivalent ratio $1 : 2$.

- How would I compare this division calculation to the previous calculation?

$$18 : 36 = 2 : 4$$

$$18 : 36 = 1 : 2$$

Writing the ratio $1 : 2$ could be described as representing the ratio $18 : 36$ in simplest form.

- How would I use the two sets of equivalent ratios to explain writing a ratio in simplest form?

$$18 : 36 = 2 : 4$$

$$18 : 36 = 1 : 2$$

Equivalent Ratios - Division

Which statements do I feel confident explaining and demonstrating?
Which statements do I not feel confident explaining and demonstrating?

- ✓ I can explain or define a ratio
- ✓ I can explain how I write a ratio
- ✓ I can demonstrate how I read a ratio
- ✓ I can write examples of equivalent ratios
- ✓ I can explain why two ratios are equivalent
- ✓ I can demonstrate and explain how I use division to write equivalent ratios
- ✓ I can demonstrate and explain how I write a ratio in simplest form