

Hi there! Let's understand why  **$1/2$  equals 0.5** step by step.

First, what is a fraction? A fraction tells us how many parts of a whole we have. In this case, the fraction  **$1/2$**  means we have 1 part out of 2 equal parts.

Imagine you have a pizza. If you cut the pizza into 2 equal slices and you take 1 slice, you have **1 out of 2** slices. This is where the fraction  **$1/2$**  comes from!

Now, let's see what **0.5** means. The number **0.5** is a decimal. Decimals can also represent parts of a whole, just like fractions. To understand this, think of it like this:

- If you have 1 whole pizza and you want to divide it into 10 equal parts, each part is **0.1** of the pizza (because 1 divided by 10 equals 0.1).
- If you have 2 equal parts (like in  $1/2$ ), each part is **0.5** of the pizza because **1 divided by 2 equals 0.5**.

So, when we say  **$1/2$** , it means one part from two equal parts, and that also equals **0.5** when you look at it in decimal form!

In summary,  **$1/2$**  is the same as **0.5**. Isn't that cool?