

How does $1/2$ convert to 0.5?

Let's break it down step by step:

Step 1: Understanding Fractions

A fraction like $1/2$ means you have **1 part** out of **2 equal parts**. Imagine you have a chocolate bar that is divided into **2 equal pieces**. If you eat **1 piece**, you've eaten **1 out of 2**, which is $1/2$ of the whole bar.

Step 2: Converting to Decimal

To convert the fraction $1/2$ into a decimal, you can do a simple division. Here's how:

Take the top number (the numerator) which is **1** and divide it by the bottom number (the denominator) which is **2**. So, you'll calculate:

$$1 \div 2$$

Step 3: Performing the Division

When you divide **1** by **2**, you can think of it this way:

- If **2** doesn't go into **1** at all, you write a **0**.
- Then, you add a decimal point and another **0** next to the **1**, making it **1.0**.
- Now, divide **10** (which comes from **1.0**) by **2**.

2 goes into **10**, **5** times because $2 \times 5 = 10$.

So, $1 \div 2 = 0.5$!

Step 4: Final Result

This means that when you have $1/2$, it is the same as saying you have **0.5**.

Conclusion

So next time you see $1/2$, remember that it equals **0.5**. You can always use division to help you convert fractions to decimals!