Step-by-Step Guide to Adding Fractions (1/2 + 1/6)

Adding fractions can be easy once you understand the steps! Here's how to add **1/2** and **1/6**.

Step 1: Find a Common Denominator

Fractions need a common denominator to be added together. The denominators in this case are **2** and **6**.

The least common multiple (LCM) of **2** and **6** is **6**. So, we will use **6** as our common denominator.

Step 2: Convert the Fractions

Next, we need to convert each fraction to have the common denominator of **6**.

- For **1/2**: To change the denominator from **2** to **6**, we multiply both the top and bottom of the fraction by **3** (because 2 * 3 = 6).
- This gives us: **1 x 3 = 3**, so **1/2 = 3/6**.
- For **1/6**: The denominator is already **6**, so we don't need to change it. Therefore, **1/6 = 1/6**.

Step 3: Add the Converted Fractions

Now we can add the two fractions:

3/6 + 1/6 = (3 + 1)/6 = 4/6

Step 4: Simplify the Result

The final fraction **4/6** can be simplified. Both 4 and 6 can be divided by their greatest common divisor, which is **2**:

- 4 ÷ 2 = 2
- 6 ÷ 2 = 3

So, **4/6 simplifies to 2/3**.

Final Answer

The sum of **1/2 + 1/6** is **2/3**.