Prompt

Provide a step-by-step **fallacious** solution for the following question. Explain which step was wrong.

Question: What is $\frac{1}{2} + \frac{1}{3}$?

Output

Solution:

1. $\frac{1}{2} + \frac{1}{3}$

2. Find a common denominator: $\frac{3}{6} + \frac{2}{6}$

3. Add the fractions: $\frac{5}{6}$

4. Therefore: $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$ (✓)

Explanation:

Step 3 was wrong. The mistake occurred when adding $\frac{3}{6} + \frac{2}{6}$. The correct sum **should be** $\frac{5}{6}$**, not** $\frac{5}{6}$.