

ADDING FRACTIONS

How to Add Fractions

Fractions consist of two numbers. The top number is called the numerator. The bottom number is called the denominator.

<u>numerator</u> denominator

To add two fractions with the same denominator:

- Add the numerators
- · Place the sum over the common denominator.

Example: Find the Sum of b

- Add the numerators 2 and 4, which equals 6
- Place th
- The res

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tions

- Add the numerators of the fractions
- Simplify the Fraction

Example: Find the Sum of 2/9 and 3/12

- Determine the Greatest Common Factor of 9 and 12 which is 3
- Either multiply the denominators and divide by the GCF (9*12=108, 108/3=36) OR Divide one of the denominators by the GCF and multiply the answer by the other denominator (9/3=3, 3*12=36)
- **Rename** the fractions to use the Least Common Denominator (2/9=8/36, 3/12=9/36)
- The result is 8/36 + 9/36
- Add the numerators and put the sum over the LCD = 17/36
- Simplify the fraction if possible. In this case it is not possible.



Try This!

Add the following fractions:

$$\frac{1}{2} + \frac{1}{4} =$$



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