

ADDING/SUBTRACTING FRACTIONS

$$\frac{1}{2} + \frac{3}{4} \rightarrow \frac{1}{2} \text{ CUP OF FLOUR} + \frac{3}{4} \text{ CUP OF FLOUR}$$

$$\frac{1 \times 2}{2 \times 2} + \frac{3}{4} \Rightarrow \frac{2}{4} + \frac{3}{4} = \frac{2+3}{4} = \frac{5}{4}$$

MAKE DENOMINATORS EQUAL/SAME

→ A COMMON DENOMINATOR

+/- UNLIKE DENOMINATORS
THE STEPS

1. Find COMMON DENOMINATOR
2. +/- NUMERATOR
3. Find LOWEST TERM

EASIEST WAY TO MAKE COMMON DENOMINATOR IS MULTIPLY EACH FRACTION BY THE OTHER DENOMINATOR

$$3 \frac{5}{6} + 1 \frac{1}{4} = 3 \frac{20}{24} + 1 \frac{6}{24}$$

$$= (3+1) + \frac{20+6}{24}$$

$$= 4 \frac{26}{24}$$

$$= 4 + \frac{24}{24} + \frac{2}{24}$$

$$= 5 \left(\frac{2}{24} \right) \rightarrow \text{CAN BE SIMPLIFIED.}$$

$$= 5 \frac{1}{12} \checkmark$$

* NUMERATOR CANNOT BE BIGGER THAN DENOMINATOR

$$\begin{aligned} 4\frac{2}{5} - 3\frac{1}{2} &= \frac{(4 \times 5) + 2}{5} - \frac{(3 \times 2) + 1}{2} \\ &= \frac{22 \times 2}{5 \times 2} - \frac{7 \times 5}{2 \times 5} \\ &= \frac{44}{10} - \frac{35}{10} \\ &= \frac{9}{10} \quad \checkmark \end{aligned}$$

$$\begin{aligned} \frac{5}{12} - \frac{1}{6} &= \frac{5}{12} - \frac{2}{12} \\ &= \frac{3}{12} \div 3 \quad \text{CORRECT BUT CAN BE SIMPLIFIED.} \\ &= \frac{1}{4} \quad \checkmark \end{aligned}$$

x2 (instead of x12 ÷ x6) b/c it's EASIEST WAY TO MAKE DENOM. EQUAL