FCTG

Adding fractions

* Rule 1: When **adding** two fractions with Same denominator, then

❖ Step 1: Add _____.

❖ Step 2: Keep the _____.

❖ Step 3: _____ the answer in simplest form if possible.

Example: Solve $\frac{3}{5} + \frac{1}{5}$.

$$\frac{\boxed{}}{\boxed{}}$$

* Rule 2: When **adding** two fractions ($\frac{N1}{D1}$ *and* $\frac{N2}{D2}$) with different denominators, then

❖ Step 1: **Multiply** $D2$ to both $N1$ *and* $D1$ to get   .

Multiply $D1$ to both $N2$ *and* $D2$ to get   .

❖ Step 2: ADD the _____ numerators and KEEP the _____.

❖ Step 3: _____ the answer in simplest form if possible.

Example: Solve $\frac{3}{4} + \frac{5}{14}$.

$$\frac{\boxed{}}{\boxed{}}$$

Name/Nombre: _____   Date/Fecha:_____

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DO NOW!

1. **Same denominator.** Solve each problem. Write the answer in mixed numbers and in simplest form (if possible).

(1) $\frac{2}{5} + \frac{2}{5}$ $\frac{\boxed{}}{\boxed{}}$

(2) $\frac{1}{3} + \frac{2}{3}$ $\frac{\boxed{}}{\boxed{}}$ $\boxed{}$

(3) $\frac{2}{12} + \frac{3}{12}$ $\frac{\boxed{}}{\boxed{}}$

(4) $\frac{4}{8} + \frac{1}{8}$ $\frac{\boxed{}}{\boxed{}}$

(5) $\frac{6}{12} + \frac{5}{12}$ $\frac{\boxed{}}{\boxed{}}$

(6) $\frac{3}{4} + \frac{3}{4}$ $\frac{\boxed{}}{\boxed{}}$ $\boxed{}\frac{\boxed{}}{\boxed{}}$

(7) $\frac{2}{10} + \frac{9}{10}$ $\frac{\boxed{}}{\boxed{}}$ $\boxed{}\frac{\boxed{}}{\boxed{}}$

(8) $\frac{9}{6} + \frac{7}{6}$ $\frac{\boxed{}}{\boxed{}}$ $\boxed{}\frac{\boxed{}}{\boxed{}}$

(9) $1\frac{2}{10} + 2\frac{14}{10}$ $\boxed{}\frac{\boxed{}}{\boxed{}}$

2. **Different denominators.** Solve each problem. Write the answer in mixed numbers and in simplest form (if possible).

(1) $\frac{3}{6} + \frac{3}{8}$ $\frac{\boxed{}}{\boxed{}}$ $\boxed{}\frac{\boxed{}}{\boxed{}}$

(2) $\frac{10}{12} + \frac{1}{2}$ $\frac{\boxed{}}{\boxed{}}$ $\boxed{}\frac{\boxed{}}{\boxed{}}$

(3) $\frac{4}{5} + \frac{5}{12}$ $\frac{\boxed{}}{\boxed{}}$ $\boxed{}\frac{\boxed{}}{\boxed{}}$

(4) $\frac{5}{6} + \frac{6}{12}$ $\frac{\boxed{}}{\boxed{}}$ $\boxed{}\frac{\boxed{}}{\boxed{}}$

(5) $\frac{1}{3} + \frac{2}{6}$ $\frac{\boxed{}}{\boxed{}}$ $\boxed{}\frac{\boxed{}}{\boxed{}}$

(6) $\frac{7}{8} + \frac{8}{10}$ $\frac{\boxed{}}{\boxed{}}$ $\boxed{}\frac{\boxed{}}{\boxed{}}$

(7) $\frac{7}{15} + \frac{3}{12}$ $\frac{\boxed{}}{\boxed{}}$ $\boxed{}\frac{\boxed{}}{\boxed{}}$

(8) $\frac{9}{4} + \frac{7}{3}$ $\frac{\boxed{}}{\boxed{}}$ $\boxed{}\frac{\boxed{}}{\boxed{}}$

(9) $1\frac{3}{4} + 3\frac{5}{8}$ $\frac{\boxed{}}{\boxed{}}$ $\boxed{}\frac{\boxed{}}{\boxed{}}$