

Name/Nombre: _____ Date/Fecha: _____

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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 $\frac{3}{5} + \frac{1}{5}$.

* 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 $\frac{3}{4} + \frac{5}{14}$.

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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).

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

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

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

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

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

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

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

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

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