

Name/Nombre: \_\_\_\_\_ Date/Fecha: \_\_\_\_\_

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


\* 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).

$$(1) \frac{2}{5} + \frac{2}{5} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$(2) \frac{1}{3} + \frac{2}{3} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \boxed{\phantom{00}}$$

$$(3) \frac{2}{12} + \frac{3}{12} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$(4) \frac{4}{8} + \frac{1}{8} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$(5) \frac{6}{12} + \frac{5}{12} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$(6) \frac{3}{4} + \frac{3}{4} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$(7) \frac{2}{10} + \frac{9}{10} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$(8) \frac{9}{6} + \frac{7}{6} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$(9) 1\frac{2}{10} + 2\frac{14}{10} = \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

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

$$(1) \frac{3}{6} + \frac{3}{8} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$(2) \frac{10}{12} + \frac{1}{2} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$(3) \frac{4}{5} + \frac{5}{12} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$(4) \frac{5}{6} + \frac{6}{12} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$(5) \frac{1}{3} + \frac{2}{6} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$(6) \frac{7}{8} + \frac{8}{10} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$(7) \frac{7}{15} + \frac{3}{12} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$(8) \frac{9}{4} + \frac{7}{3} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$(9) 1\frac{3}{4} + 3\frac{5}{8} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$