## Adding Fractions

When you are adding two fractions that do not have a common denominator and you cannot easy change one of the fractions to the other's denominator, follow these steps on this problem:
$\frac{2}{5}+\frac{1}{6}$
The common denominator for the above problem is $5 \times 6=30$. We arrive at this number by multiplying the denominator of the $1^{\text {st }}$ fraction (5) and the denominator of the $2^{\text {nd }}$ fraction (6).

Write down the new problem as:
$\overline{30}+\frac{}{30}$
To find the denominator, for the $1^{\text {st }}$ fraction, write:
$\frac{2}{5}=\frac{}{30}$
Now 5 times what number equals 30 ? Six, right! Now, whatever you multiply on the bottom, go ahead and multiply on the top. So $2 \times 6=12$ as you can see below.
$\frac{2}{5} \times \frac{6}{6}=\frac{12}{30}$
To find the denominator, for the $2^{\text {nd }}$ fraction, write:
$\frac{1}{6}=\frac{}{30}$
At this time, 6 times what number equals 30 ? Five, correct! Now, whatever you multiply on the bottom, go ahead and multiply on the top. So $1 \times 5=5$ as you can see below.
$\frac{1}{6} \times \frac{5}{5}=\frac{5}{30}$
Place the new numerators over the denominators on your paper and now you solve the problem.
$\frac{12}{30}+\frac{5}{30}=\frac{17}{30}$
$12+5=17$ as the denominator stays as 30 . The answer is $\frac{17}{30}$.

Solve the following 10 addition problems:
$\frac{1}{3}+\frac{1}{2}$
$\frac{2}{3}+\frac{1}{4}$
$\frac{2}{5}+\frac{1}{6}$
$\frac{3}{8}+\frac{1}{4}$

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\frac{3}{4}+\frac{5}{6}
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\frac{3}{5}+\frac{4}{7}
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\frac{3}{10}+\frac{3}{5}
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\frac{7}{12}+\frac{5}{6}
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\frac{7}{8}+\frac{5}{6}
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\frac{2}{3}+\frac{4}{7}
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