Adding Fractions with Different Denominators

When you are adding fractions with different denominators, convert at least one of the fractions so that they both have the same denominators. Examples:

$$1 \cdot \frac{1}{2} + \frac{1}{6} =$$

First, find a common denominator.

Both 2 and 6 are factors of 6. For $\frac{1}{2}$, we multiply both the numerator and denominator by 3, which equals $\frac{3}{6}$. $\frac{3}{6} + \frac{1}{6} = \frac{4}{6}$

Last, we simplify the answer to get $\frac{2}{3}$.

2. $\frac{3}{8} + \frac{1}{4} =$ Both denominators are factors of 8. $\frac{1}{4} \times 2 = \frac{2}{8}$ $\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$

Try the following equations yourself. Remember to simplify your answers. $1 \cdot \frac{1}{4} + \frac{4}{8} =$ $2 \cdot \frac{4}{6} + \frac{4}{12} =$











