

## Using Common Numerators



Simplifying Fractions
Vocabulary

| numerator | Top number in a fraction. Shows how many parts we have |
| :---: | :---: |
| denominator | Bottom number in a fraction. Shows how many equal parts in the whole |
| factor | Numbers we can multiply together to get another number |
| highest common factor | The largest factor that 2 numbers share. |
| multiple | The result of multiplying a number by an integer |
| lowest common multiple | The smallest number that is a multiple of 2 or more numbers |
| equivalent | Having the same value |
| simplify | Make a fraction as simple as possible by dividing numerator and denominator |
| proper fraction | The numerator is less than the denominator - value is less than 1 whole |
| improper <br> fraction | The numerator is greater than the denominatorvalue is greater than 1 whole |
| mixed number | A whole number and a fraction part |

$\frac{1}{4}+\frac{1}{3} \quad \frac{1}{4}+\quad \frac{1}{3}=$
$\frac{\downarrow}{4}=\frac{3}{12}$
$\underbrace{\frac{1}{3}}_{\times 3}=\frac{4}{12}$


To add or subtract fractions, the denominators must be the same

$$
\frac{1}{3}-\frac{1}{9} \frac{1}{3}-\frac{1}{9} \quad \frac{3}{9}-\frac{1}{9}=\frac{2}{9}
$$

Mixed Numbers

$$
3 \frac{3}{4}-1 \frac{1}{2} \begin{aligned}
& \frac{1}{2}=\frac{2}{4}
\end{aligned}
$$

$$
\frac{1}{3} \div 4=\frac{1}{12}
$$

