| Addition | Subtraction |
| :---: | :---: |
| Make common denominators. Rewrite the numerators. Add the numerators. Keep the denominator. Simplify or rewrite as a mixed number. | Make common denominators. Rewrite the numerators. Add the numerators. Keep the denominator. Simplify or rewrite as a mixed number. |
| Example: | Example: |
| $\begin{gathered} \frac{2}{5}+1 \frac{1}{3}= \\ \frac{6}{15}+1 \frac{5}{15}= \\ 1 \frac{11}{15} \end{gathered}$ | $\begin{gathered} 3 \frac{4}{9}-1 \frac{2}{7}= \\ 3 \frac{28}{63}-1 \frac{18}{63}= \\ 2 \frac{10}{63} \end{gathered}$ |
| Multiplication | Division |
| Rewrite any mixed numbers as improper fractions. Multiply the numerators. Multiply the denominators. Simplify or rewrite as a mixed number. | Rewrite any mixed numbers as improper fractions. Keep, Change, Flip. Multiply the numerators. Multiply the denominators. Simplify or rewrite as a mixed number. |
| $\begin{aligned} & \frac{6}{11} \times 1 \frac{1}{3}= \\ & \frac{6}{11} \times \frac{4}{3}= \\ & \frac{24}{33}=\frac{8}{11} \end{aligned}$ | Example: $\begin{gathered} \frac{1}{5} \times 3 \frac{2}{3}= \\ \frac{1}{5} \times \frac{11}{3}= \\ \frac{1}{5} \times \frac{3}{11}= \\ \frac{3}{55} \end{gathered}$ |
| Mixed to Improper <br> $\bullet$ Multiply the denominator by the whole number. <br> -Add the numerator to this product to find your new numerator. <br> -Keep the denominator the same. <br> Example: $2+\frac{1}{4}=\frac{9}{4}$ | Improper to Mixed <br> -Divide the numerator by the denominator until you have a remainder. <br> $\bullet$ The whole number in the quotient is the whole number in the answer. <br> -The remainder is the numerator. <br> -The denominator stays the same. <br> Example: $\left.\frac{9}{4}=4\right)^{\frac{2 \mathrm{r} 1}{9}}=2 \frac{1}{4}$ |



