## Summary of Fraction Rules

$\left.\left.\begin{array}{|l|l|}\hline \text { TOPIC } & \text { RULE } \\ \hline \begin{array}{l}\text { Adding or subtracting } \\ \text { fractions that are not } \\ \text { mixed numbers } \\ \text { (LCD REQUIRED) }\end{array} & \begin{array}{l}\text { First find the lowest common denominator. } \\ \text { Second rewrite all fractions using the LCD. Be sure to } \\ \text { multiply both numerators and denominators by the } \\ \text { same quantities. }\end{array} \\ \text { Add/subtract the numerators and carry along the least } \\ \text { common denominator. } \\ \text { Reduce the answer, if possible. }\end{array} \right\rvert\, \begin{array}{l}\text { Multiplying fractions } \\ \text { that are not mixed } \\ \text { numbers } \\ \text { (LCD NOT REQUIRED) }\end{array} \begin{array}{l}\text { Prime factor the numerators and denominators of each } \\ \text { fraction. } \\ \text { Divide out any common factors. } \\ \text { Multiply the remaining factors in the numerators to obtain } \\ \text { the numerator of the answer. } \\ \text { Multiply the remaining factors in the denominators to } \\ \text { obtain the denominator of the answer. }\end{array}\right\}$

