**Rules for Operations with Fractions**

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| 1.  Adding or Subtracting Fractions      -before you add or subtract fractions the denominators must be the same      -when adding or subtracting fractions the denominators remain the same only the numerator will change               Example:  1  +  1 =  2                               3       3      3    2.  Multiplying Fractions      -before you mulitply you must change mixed numbers to improper fractions      -multiply the numerators and the denominator straight across              Example:  1  x  1 = 1                              3       3    9    3.  Divide Fractions      -before you divide you must change mixed numbers to improper fractions      -when dividing keep the first fraction the same, change the operation to multiply,  and flip the second fraction to its reciprocal              Example: 1 1/2  divided by    3 =           3    x  4 =12 = 2 (simplified)                                                               4               2        3      6    4.  Order of Operations  B -do what is in brackets first  E-evaluate exponent numbers if they are there  Divide and Mulitply in the order they appear from left to right  Add and Subtract in order it appears from left to right |
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