Fraction (and Mixed Number) operations

These steps represent one way to solve problems that I find to be the simplest and most direct. Students should have already learned fraction operations in elementary school, but guide is an attempt to help them review and correct mistakes they may be making.

1. Multiplication- (always estimate first)
   1. Change to improper fraction
   2. Multiply straight (may use early reducing)
   3. Simplify & reduce
2. Division- (always estimate first)
   1. Change to improper fraction
   2. Change to multiplication by the reciprocal (AKA same-change-flip)
   3. Multiply straight (may use early reducing)
   4. Simplify & reduce
3. Addition- (always estimate first)
   1. Make common denominators
   2. Add whole numbers, and add fractions separately
   3. Keep the same denominator, but add numerators straight
   4. Simplify & reduce (resolve improper fractions if necessary)
4. Subtraction- (always estimate first)
   1. Make common denominators
   2. subtract whole numbers, and fractions separately
   3. Keep the same denominator, but subtract numerators straight
   4. Simplify & reduce (resolve negatives if necessary)