Lesson 3.3 – Adding and Subtracting MIXED NUMBERS with ***different*** denominators

**Standard:** *Number Sense 2.1*– Solve problems involving addition, subtraction, multiplication, and division of positive fractions and explain why a particular operation was used for a given situation.

**Content Objective (Know):** Students will be able to add and subtract mixed numbers with the different denominator.

**Language Objective (Do):** Students will write a description the steps to add and subtract mixed with the different denominator.

**Example 1: Adding/Subtracting fractions with the different denominators using *Cross Multiplication***

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| **Step 1**: Ignore the whole numbers for now and focus on the fractions.  **Step 2**: Rewrite the fractions by Multiplying the denominators.  **Step 2:** Cross multiply the denominators times the opposite numerator  **Step 3:** Add the numerators and place over the new denominator.  **Step 4:** Add the whole numbers together.  **Step 5**: Simplify but dividing the numerator and denominator by the  greatest common factor |

**Example 1: Adding/Subtracting fractions with the different denominators using *Cross Multiplication***

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| **Step 1**: Ignore the whole numbers for now and focus on the fractions.  **Step 2**: Rewrite the fractions by Multiplying the denominators. *Or*  *Find the least common denominator (use factor tree or lists)*  **Step 3:** Cross multiply the denominators times the opposite numerator  **Step 4:** Add the numerators and place over the new denominator.  **Step 5:** Add the whole numbers together.  **Step 6**: Simplify but dividing the numerator and denominator by the  greatest common factor |

**CFU - Practice:**

**1.)** + **2.)** + **3.)**  - **4.)** -