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***

$1\frac{1}{3}$ + 3$\frac{3}{4}$

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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***

$9\frac{1}{7}$ - 8$\frac{1}{14}$

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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.)**$ 3\frac{1}{3}$ + $5\frac{1}{4} $**2.)**$ 2\frac{4}{5}$ + $7\frac{2}{10}$ **3.)** $10\frac{1}{3}$ - $6\frac{3}{4}$ **4.)**$ 1$ - $\frac{4}{9}$