Lesson 3.1 – Adding and Subtracting fractions 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 fractions with the different denominator.

**Language Objective (Do):** Students will orally describe the steps to add and subtract fractions with the different denominator.

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

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

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| **Step 1**: Multiply 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:** Simplify but dividing the numerator and denominator by the greatest common factor |

**Example 2: Subtracting/Adding fractions with the different denominators using *Least Common Denominator***

$\frac{19}{24}$ - $\frac{7}{16}$

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| **Step 1**: Find the least common denominator (use factor tree or lists)**Step 2:** Cross multiply the denominators times the opposite numerator**Step 3:** Add the numerators and place over the new denominator.**Step 4:** Simplify but dividing the numerator and denominator by the greatest common factor |

**Guided Practice:**

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

**WB Practice:**

**1.)**$ \frac{3}{16}$ + $\frac{5}{8}$+$\frac{7}{8}$ 2.) 1- $\frac{7}{30} $- $\frac{2}{5}$