WHAT WE ARE LEARNING
• Represent mixed numbers and improper fractions
• Add and subtract mixed numbers with like denominators
• Multiply a whole number by a unit fraction
• Use models to explain thinking

PART 1: Mixed Numbers & Improper Fractions

A mixed number has a whole number and a fraction.
Example: 1 ¾

An improper fraction is greater than 1.
Example: 7/4 = 1 ¾

Practice:
1. Draw a model to show 2 5/8.
2. Write as an improper fraction: 2 ¾ = _____
3. Write as a mixed number: 11/3 = _____
4. Which expression shows 1 ¾ ?
a. ¼ + ¾
b. 4/4 + ¾
c. ¼+ ¼+ ¼
d. 4/4 + ¼ + ¼ + ¼

PART 2: Adding and Subtracting Mixed Numbers

1. $5\frac{1}{4} + 2\frac{3}{4} =$

2. $6\frac{1}{2} + 8\frac{1}{2} =$

3. $3\frac{2}{6} + 7\frac{5}{6} =$

4. $10\frac{1}{5} - 4\frac{4}{5} =$

5. $12\frac{2}{3} - 3\frac{1}{3} =$

6. $4\frac{2}{7} - 2\frac{3}{7}$

PART 3: Word Problems

1. Jack used 1 ¼ gallons and then ¾ gallon. How many gallons total?

2. Sandy walked 2 4/6 miles and then 2 3/6 miles. How far did she walk?

3. A baker used 2 3/5 cups of flour in the morning and 1/5 cup in the afternoon.
How much flour did the baker use in total?

4. A rope is 9 ¼ meters long. 1 ¾ meters are cut off. How much rope is left?

5. A board is 10 2/3 feet long. A carpenter cuts off 5 1/3 feet. How much board remains?

PART 4: Multiplying a Whole Number by a Unit Fraction

A unit fraction has 1 in the numerator.
Example: ¼

3 × 1/4 means:
¼ + ¼ + ¼
1. 3 × ¼ = _____
2. 2 × 1/5 = _____
3. Trisha walked 7 times around the hallway. Each time was 1/10 mile. How far did she
walk? _____

PART 5: Models & Thinking

1. Draw a number line to show 2 × ¼ .

2. Draw a model for 1 ¾ .

3. What mistake is shown here? Explain your thinking: 1 ¼ + 2 ¼ = 3 2/8