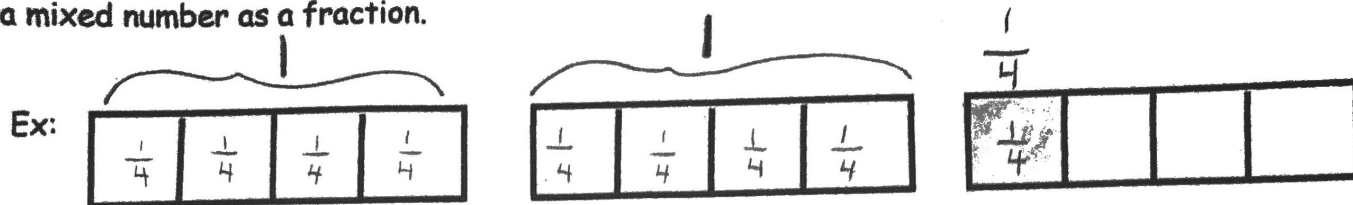


Name _____ Date _____

Essential Question: How can you rename mixed numbers as fractions greater than 1 and rename fractions greater than 1 as mixed numbers?

A **mixed number** is a number represented by a **whole number and a fraction**. You can write a mixed number as a fraction.



Mixed Number: $2 \frac{1}{4}$ = (Improper) Fraction: $\frac{9}{4}$

Since the above model has more than 1 whole shaded, you can write the model as a **mixed number**.

Step 1: Count how many whole fraction strips are shaded. That number will be your whole number.

Step 2: For the fraction strip partly shaded, you need to write what part is shaded as a fraction.

Step 3: Write the whole number next to the fraction to show the above model as a mixed number.

You can also write the above model as an **improper fraction**.

Step 1: Count all the sections shaded. That number will be your numerator.

Step 2: Identify the denominator by looking at the type of equally sized sections that the strips were divided into. **DO NOT ADD THE SECTIONS TOGETHER!** The numerator will be bigger than the denominator because there is more than one whole fraction strip shaded.

You can change any **mixed number into an improper fraction** by: (Use MAD)

Multiply the denominator by the whole number. This will tell you how many shaded parts are in the whole number.

Add the numerator to the product. This is the extra shaded parts in the last fraction strip. Keep the same

Denominator.

$$\begin{array}{r} (8) + \\ 2 \times \frac{1}{4} = \end{array}$$

To change the **improper fraction into a mixed number**, **divide the numerator by the denominator**.

denominator $\rightarrow 4 \overline{) 9} \leftarrow$ numerator