**Journal Entry**

**Improper Fractions and Mixed Numbers**

**Learning Goal:** To identify improper fractions and mixed numbers and to convert one type to another.

**Improper Fractions** are when the **numerator** is greater than the **denominator**.

**Example:**

\[
\frac{7}{5}
\]

*Fractional bar means to divide.

Convert improper fractions to a mixed number:

- **Numerator ÷ Denominator**
- Write remainder as a fraction.

**Example:**

\[
\begin{array}{c}
2 \leftarrow \text{remainder} \\
1 \leftarrow \text{divisor} \\
5 \leftarrow \text{divisor} \\
5 \quad 7 \\
-5 \\
2
\end{array}
\]

**Mixed Number** is made up of a whole number and a fraction.

**Example:**

\[
\frac{2}{1 \quad 5}
\]

Convert mixed number to an improper fraction:

- Multiply whole number and denominator.
  - \[1 \times 5 = 5\]
- Add numerator to the product.
  - \[5 + 2 = 7\]
- Write the answer over the denominator.
  - \[\frac{7}{5}\]