

An improper fraction has a larger numerator than the denominator ($\frac{4}{3}$). A mixed number is a number with a whole and a fraction ($1 \frac{1}{3}$). Multiply the denominator by the whole number then add the numerator ($3 \times 1 + 1 = 4$). The denominator stays the same ($\frac{4}{3}$). This is how $1 \frac{1}{3} = \frac{4}{3}$!

$$\begin{array}{r}
 4\frac{2}{4} + 2\frac{1}{4} = \\
 \downarrow \text{change to improper fraction} \\
 \frac{18}{4} + \frac{9}{4} = \frac{27}{4}
 \end{array}$$

Notice the denominator stays the same!

$$\begin{array}{r}
 5\frac{2}{3} - 4\frac{1}{3} = \\
 \downarrow \qquad \qquad \downarrow \\
 \underline{\quad} - \underline{\quad} = \underline{\quad}
 \end{array}$$

$$\begin{array}{r}
 3\frac{2}{7} - 1\frac{1}{7} = \\
 \downarrow \qquad \qquad \downarrow \\
 \underline{\quad} - \underline{\quad} = \underline{\quad}
 \end{array}$$

$$\begin{array}{r}
 6\frac{1}{5} + 4\frac{1}{5} = \\
 \downarrow \text{change to improper fraction} \\
 \underline{\quad} + \underline{\quad} = \underline{\quad}
 \end{array}$$

$$\begin{array}{r}
 4\frac{3}{7} + 1\frac{1}{7} = \\
 \downarrow \qquad \qquad \downarrow \\
 \underline{\quad} + \underline{\quad} = \underline{\quad}
 \end{array}$$

$$\begin{array}{r}
 7\frac{3}{6} - 6\frac{2}{6} = \\
 \downarrow \text{change to improper fraction} \\
 \underline{\quad} - \underline{\quad} = \underline{\quad}
 \end{array}$$

$$\begin{array}{r}
 9\frac{2}{5} - 4\frac{1}{5} = \\
 \downarrow \qquad \qquad \downarrow \\
 \underline{\quad} - \underline{\quad} = \underline{\quad}
 \end{array}$$

$$\begin{array}{r}
 7\frac{1}{4} + 3\frac{1}{4} = \\
 \downarrow \text{change to improper fraction} \\
 \underline{\quad} + \underline{\quad} = \underline{\quad}
 \end{array}$$