

# Mixed Numbers to Improper Fractions

# Improper Fractions to Mixed Numbers

**Mixed Number:** A whole number with a fraction next to it.

Ex.  $8\frac{1}{2}$ ,  $4\frac{1}{2}$ ,  $5\frac{1}{4}$

**Improper Fraction:** A fraction where the numerator is greater than the denominator

$$\frac{N}{D}$$

\* A fraction with a big head on its shoulders.

ex:  $\frac{8}{6}$ ,  $\frac{7}{3}$ ,  $\frac{9}{4}$

$$\frac{41}{8} \quad 8 \overline{)41} \begin{array}{r} 5 \\ -40 \\ \hline 1 \end{array} \quad 5\frac{1}{8}$$

$$\frac{19}{7} \quad 7 \overline{)19} \begin{array}{r} 2 \\ -14 \\ \hline 5 \end{array} \quad 2\frac{5}{7}$$

$$\frac{11}{2}$$

$$3\frac{1}{2} \quad \begin{array}{l} + \textcircled{2} \\ \swarrow \\ 3 \times 2 = 6 \\ 6 + 1 = 7 \\ \hline 7 \\ \frac{1}{2} \end{array}$$

$$2\frac{1}{2} \quad \begin{array}{l} + \textcircled{2} \\ \swarrow \\ 2 \times 2 = 4 \\ 4 + 1 = 5 \\ \hline 5 \\ \frac{1}{2} \end{array}$$

$$3\frac{8}{9} \quad \begin{array}{l} + \textcircled{2} \\ \swarrow \\ 3 \times 9 = 27 \\ 27 + 8 = 35 \\ \hline 35 \\ \frac{8}{9} \end{array}$$

$$5\frac{1}{5}$$

$$\frac{12}{7} \quad 7 \overline{)12} \begin{array}{r} 1 \\ -7 \\ \hline 5 \end{array} \quad 1\frac{5}{7}$$