

Improper Fractions & Mixed Numbers

*An improper fraction has a numerator greater than or equal to its denominator. $\frac{14}{4}$

*A mixed number has a whole number and a fraction. $1\frac{5}{6}$

Converting Mixed Numbers & Improper Fractions

*Use division to convert an improper fraction into a mixed number.

Step 1: Divide the numerator by the denominator

$$\frac{14}{4} \qquad 4 \overline{) 14} \qquad 3 \frac{2}{4} = 3 \frac{1}{2}$$
$$\qquad \qquad \qquad \begin{array}{r} 3 \\ 4 \overline{) 14} \\ \underline{-12} \\ 2 \end{array}$$

Step 2: Write the remainder as a fraction (over the denominator)

$$\frac{2}{4}$$

Step 3: Write your answer as a mixed number and simplify if necessary

$$3 \frac{2}{4} = 3 \frac{1}{2}$$

Mixed number into an improper fraction.

Step 1: Multiply the whole number by the denominator

$$3 \frac{1}{2} \quad 3 \times 2 = 6$$

Step 2: Add your answer to the numerator

$$6 + 1 = 7$$

Step 3: Put the new numerator over the old denominator

$$\frac{7}{2}$$

Practice

$$\frac{9}{2} =$$

$$\frac{20}{3} =$$

$$1 \frac{3}{12} =$$

$$1 \frac{2}{5} =$$