4.NF.3 Proper & Improper Fractions & Mixed Numbers

I can write an improper fraction as a mixed number.

I can write a mixed number as an improper fraction.

LINGO

proper fraction

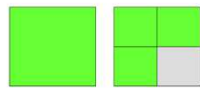A fraction in which the numerator is less than the denominator.

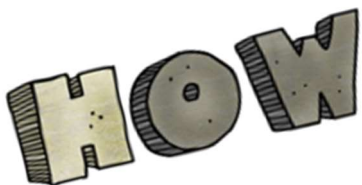$\frac{2}{3}$ $\frac{5}{7}$ $\frac{16}{40}$

mixed number

A mixed number has a part that is a whole and a part that is a fraction.

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

improper fraction

A fraction in which the numerator is greater than the denominator.

$\frac{15}{6}$ $\frac{6}{3}$ $\frac{16}{5}$
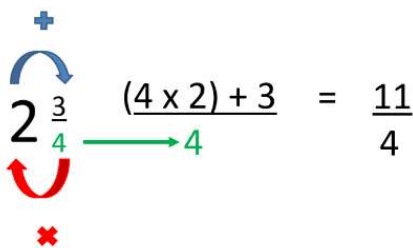
HOW

Changing a mixed number to an improper fraction
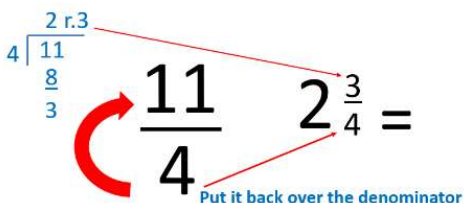
Making mixed numbers M.A.D.

Multiply   Add   Denominator

$2\frac{3}{4}$ $\dfrac{(4 \times 2) + 3}{4}$ $= \dfrac{11}{4}$

Changing an improper fraction to a mixed number

1. Divide the numerator by the denominator
2. This is now your WHOLE NUMBER
3. Use the leftover/remainder as your new numerator
4. Use the same denominator

$\begin{array}{r} 2\ r.3 \\ 4\overline{)11} \\ \underline{8} \\ 3 \end{array}$

$\dfrac{11}{4}$ $2\frac{3}{4} =$

Put it back over the denominator

PRACTICE

Write the improper fraction as a mixed number.

1.) $\dfrac{14}{3} =$ 2.) $\dfrac{27}{4} =$

3.) $\dfrac{16}{5} =$ 4.) $\dfrac{31}{7} =$

Write the mixed number as an improper fraction.

1.) $2\frac{7}{10}$ 2.) $5\frac{1}{4}$

3.) $8\frac{2}{8}$ 4.) $3\frac{4}{7}$