

How to convert an improper fraction in to a mixed number?

To convert an improper fraction to a mixed number, divide the numerator by the denominator to find the whole number. The remainder becomes the new numerator and the denominator stays the same. Some times there is zero remainder then the answer is the whole number only.

Convert the following improper fractions in to mixed numbers (Don't forget to reduce the fraction if possible after converting it into mixed number):

1. $\frac{15}{7}$

$7 \overline{) 15}$

$\begin{array}{r} 2 \\ 7 \overline{) 15} \\ \underline{-14} \\ 1 \end{array}$

Whole number. Write at the front of the fraction.

Denominator stays the same.

New numerator

So, the mixed number is $2 \frac{1}{7}$

2. $\frac{98}{8}$

$8 \overline{) 98}$

$\begin{array}{r} 12 \\ 8 \overline{) 98} \\ \underline{-8} \\ 18 \\ \underline{-16} \\ 2 \end{array}$

$12 \frac{2}{8}$

Now the proper fraction is not in its lowest terms, as the numerator 2 and denominator 8 has gcf 2. So reduce this fraction into lowest terms by cutting numerator and denominator by 2.

$$12 \frac{\cancel{2} 1}{\cancel{8} 4} = 12 \frac{1}{4}$$