## FRACTIONS

## 'Mixed Numbers and Improper Fractions'

We have already learned about improper fractions. An Improper Fraction is a fraction in which the numerator is greater than or equal to the denominator. For example, $\frac{12}{7}, \frac{7}{2}$ etc are all improper fractions.

Now we will learn about Mixed Numbers. A Mixed number consists of a whole number and a fraction. For example $2 \frac{5}{7}, 3 \frac{2}{5}$ etc are mixed numbers.

Look at the following example to understand mixed numbers.


We know that a whole $=\frac{4}{4}=1$ and the other figure is 1 quarter which is $\frac{1}{4}$. So we can write the fraction as $1 \frac{1}{4}$ which is a mixed number as it is a mixture of a whole number and a fraction.

A mixed number can be converted into an improper fraction.
$1 \frac{1}{4}$
First we will multiply the whole number by the denominator of the proper fraction and then add the numerator of the proper fraction with it.

$$
\begin{aligned}
& \longleftrightarrow 4 \times 1=4 \\
& \longmapsto 4+1=5
\end{aligned}
$$

which will give us our improper fraction $\longrightarrow \frac{5}{4}$
Similarly an improper fraction can be converted into a mixed number by division.


