Chapter 2: Fractions and Decimals, Class 1

## CLASS NOTES

## Introduction

The word fraction derives from the Latin word "Fractus" meaning broken. It represents a 'part of a whole', consisting of a number of equal parts out of a whole.

Example: Slices of a pizza


## Representation of Fractions

A fraction is represented by two numbers separated by a line. The number on top of the line is the numerator and the number below is the denominator.

Example: $\frac{3}{5}$ means 3 parts out of 5 equal divisions.

## Types of Fractions

Proper Fractions: The numerator is smaller than the denominator. Proper fractions are greater than 0 and less than 1.

Example: $\frac{2}{5}, \frac{1}{7}, \frac{50}{58}$
Improper Fractions: The numerator is greater than or equal to the denominator. Improper fractions are greater than 1 or equal to 1.
Example: $\frac{6}{5}, \frac{20}{5}$
Mixed Fractions: Mixed fractions are a combination of a whole number and
a proper fraction.
Example: $\frac{43}{5}=8 \frac{3}{5}$
(i.e., $\frac{(8 \times 5)+3}{5}=\frac{43}{5}$ )

Like Fractions: Fractions with same denominator.
Example: $\frac{1}{5}, \frac{6}{5}, \frac{3}{5}$
Unlike Fractions: Fractions with different denominators.
Example: $\frac{1}{5}, \frac{6}{8}$
Equivalent Fractions: Fractions that have different numerators and denominators but are equal to the same value.

Example: $\frac{2}{4}, \frac{4}{8}, \frac{3}{6}$ are equivalent fractions because they are equal to $\frac{1}{2}$.

