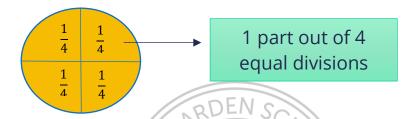
CLASS NOTES

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

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a proper fraction.

Example:
$$\frac{43}{5} = 8\frac{3}{5}$$

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$$\frac{43}{5} = 8\frac{3}{5}$$
 (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 $\frac{1}{2}$.