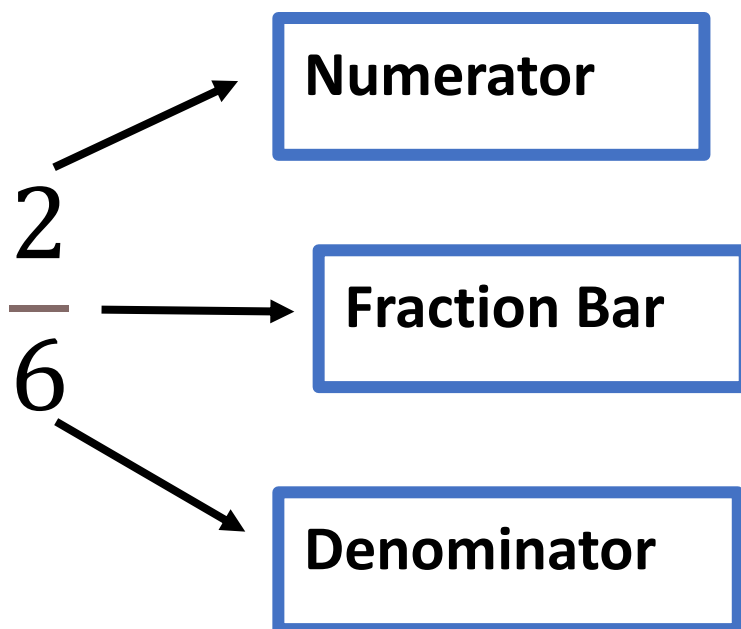


Ch-7 Fractions

Points to remember

- 1) A fraction is a part of a whole.
- 2) It is of two parts;
 - (a) Numerator \rightarrow Number of equal parts taken
 - (b) Denominator \rightarrow Total equal parts of a whole

Example :- Pizza



Types of Fraction

There are six types of Fraction. They are;

(1) **Proper Fraction** \rightarrow Those fraction whose numerator is less than the denominator are called proper fractions. Example:- $\frac{1}{2}, \frac{3}{6}, \frac{10}{20}$.

(2) **Improper Fraction** \rightarrow Those fractions whose numerator is greater than or equal to the denominator are called improper fractions. Example:-

$$\frac{3}{2}, \frac{6}{6}, \frac{20}{12}$$

(3) **Mixed Number** → A mixed number is a combination of whole number and a proper fraction. Example :- $2\frac{1}{2}$, $4\frac{3}{6}$, $6\frac{10}{20}$.

(4) **Unit Fraction** → A fraction whose numerator is 1 is called a unit fraction. Example:- $\frac{1}{2}$, $\frac{1}{6}$, $\frac{1}{20}$.

(5) **Like Fraction** → A fraction whose denominators are same are called like fractions. Example:- $\frac{1}{6}$, $\frac{3}{6}$, $\frac{5}{6}$.

(6) **Unlike Fraction** → A fraction whose denominator are different are called unlike fractions. Example:- $\frac{4}{6}$, $\frac{3}{8}$, $\frac{12}{15}$.

Reduce to their simplest form

A fraction is in its simplest form when its numerator and denominator have no common factors other than 1.

Example:- $\frac{1}{2}$, $\frac{3}{5}$, $\frac{5}{8}$ are all in their simplest form.

Quick Assessment



Page No - 74

Reduce the following fractions to their simplest terms.

1. $\frac{15}{18}$

2. $\frac{60}{105}$

3. $\frac{84}{68}$

4. $\frac{55}{60}$

Solution:-

$$1) \frac{15}{18}$$

$$\begin{aligned} \text{sol 1)} &= \frac{\cancel{15}^5}{\cancel{18}_6} \\ &= \frac{5}{6} \end{aligned}$$

$$2) \frac{60}{105}$$

$$\begin{aligned} \text{sol 2)} &= \frac{\cancel{60}^{12 \cdot 4}}{\cancel{105}^{21 \cdot 5}} \\ &= \frac{4}{7} \end{aligned}$$

$$3) \frac{84}{68}$$

$$\begin{aligned} \text{sol 3)} &= \frac{\cancel{84}^{42 \cdot 2}}{\cancel{68}^{34 \cdot 2}} \\ &= \frac{21}{17} \end{aligned}$$

In this Q4. is homework