



## Fractional Units and Equal

### Fractional Units

A fractional unit is a part of a whole.

When something is divided into equal parts, each part is a fractional unit.

**Example:**

If a cake is divided into 4 equal parts:

- Each part =  $\frac{1}{4}$  of the cake
- These are fractional units of the cake

### What are Equal Shares?

When an object or quantity is divided into equal parts, each person or section gets an equal share.

**Example:**

- 4 friends share 1 pizza equally:
- Each friend gets  $\frac{1}{4}$  of the pizza

**Another example:**

- If 2 chocolates are divided equally among 3 children:
- Each child gets  $\frac{2}{3}$  chocolate

### Real-Life Examples of Equal Shares:

- Cutting a sandwich into 2 equal parts  $\rightarrow$  each part =  $\frac{1}{2}$
- Sharing ₹10 equally among 5 friends  $\rightarrow$  each gets  $\frac{10}{5} = ₹2$
- Filling 1 bottle equally into 4 glasses  $\rightarrow$  each glass gets  $\frac{1}{4}$  of the bottle

### Properties of Fractional Units and Equal Shares:

- i. All parts must be equal to form correct fractions

**Example:**  $\frac{1}{3}, \frac{2}{5}$



ii. The total of all equal shares equals the whole

**Example:**  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{4}{4} = 1$

iii. Each fractional unit is written as  $\frac{1}{n}$ , where  $n$  = total parts

**Example:**  $\frac{1}{6}$  (when divided into 6 equal parts)

iv. More the number of equal parts, smaller each fractional unit

**Example:**  $\frac{1}{8} < \frac{1}{4}$

v. Fractional units are used in fair sharing and equal division