



## Introduction to Fraction

### Understanding Introduction to Fraction

- A fraction is a part of a whole.
- It is written in the form  $\frac{a}{b}$ , where a is the numerator and b is the denominator.
- Numerator tells how many parts are taken.
- Denominator tells how many equal parts the whole is divided into.
- Example: In  $\frac{1}{4}$ , the whole is divided into 4 parts and 1 part is taken.
- Fractions are used in everyday life like cutting cake, sharing chocolates, or measuring liquids.

### Types of Fractions

- **Proper Fraction:** Numerator < Denominator (e.g.,  $\frac{3}{5}$ )
- **Improper Fraction:** Numerator  $\geq$  Denominator (e.g.,  $\frac{7}{4}$ )
- **Unit Fraction:** Numerator = 1 (e.g.,  $\frac{1}{2}$ ,  $\frac{1}{6}$ )
- **Like Fractions:** Same denominator (e.g.,  $\frac{2}{5}$  and  $\frac{3}{5}$ )
- **Unlike Fractions:** Different denominators (e.g.,  $\frac{1}{3}$  and  $\frac{2}{5}$ )

### Mixed Examples with Solutions

**Example:** Write 3 parts out of 4 as a fraction

**Solution:** 3 out of 4 =  $\frac{3}{4}$

**Example:** What is the numerator and denominator of  $\frac{5}{6}$ ?

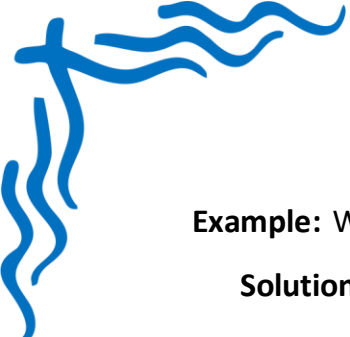
**Solution:** Numerator = 5, Denominator = 6

**Example:** Shade  $\frac{1}{2}$  of a rectangle

**Solution:** Divide the rectangle into 2 equal parts and shade 1 part

**Example:** Is  $\frac{7}{3}$  a proper or improper fraction?

**Solution:**  $7 > 3 \rightarrow$  Improper fraction



**Example:** Which is a unit fraction:  $\frac{3}{4}$  or  $\frac{1}{5}$ ?

**Solution:**  $\frac{1}{5}$  is a unit fraction because numerator = 1

### Summary Points

- A fraction shows a part of a whole.
  - It is written as numerator/denominator.
  - Proper, improper, and unit fractions describe different parts.
  - Fractions are used in daily life to show equal sharing.
  - Understanding parts of a fraction helps in comparing, adding, and subtracting fractions later.
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