# **Numerator and Denominator**

### **Understanding Notes**

- A fraction shows a part of a whole
- It is written in the form of  $\frac{a}{b}$  where 'a' is the numerator and 'b' is the denominator
- The numerator tells how many parts are taken or shaded
- The denominator tells how many total equal parts the whole is divided into **Example:** In  $\frac{3}{4}$ , 3 is the numerator and 4 is the denominator
- The denominator is always written below the line
- The numerator is always written above the line
- The parts must be equal to make a correct fraction
- Fractions are used in real life for sharing, dividing, and measuring
- A fraction becomes a whole when the numerator and denominator are the same like <sup>4</sup>/<sub>4</sub> = 1

## **Examples with Solutions**

**Example 1:** Identify the numerator and denominator in  $\frac{5}{2}$ 

Solution: Numerator = 5, Denominator = 8

**Example 2:** A chocolate bar is divided into 6 equal parts. Riya ate 2 parts. Write the fraction and label its parts

**Solution:** Fraction is  $\frac{2}{6}$ , Numerator = 2, Denominator = 6

Example 3: Color 3 parts out of 5 in a circle. What is the fraction of shaded parts

**Solution:** Fraction = 
$$\frac{3}{5}$$
, Numerator = 3, Denominator = 5

#### Example 4: Word Problem

In a fruit basket, 10 parts are orange slices. Out of them, 7 slices are eaten. What part of orange slices is eaten

**Solution:** Fraction =  $\frac{7}{10}$ , Numerator = 7, Denominator = 10

#### Example 5: True or False

In the fraction  $\frac{9}{9}$ , the numerator is smaller than the denominator

Solution: False, because numerator = denominator

### **Summary Point**

- A fraction shows equal parts of a whole
- Numerator tells how many parts we have
- Denominator tells how many parts make the whole
- Fractions are written in the form numerator/denominator
- Understanding numerator and denominator helps in solving real-life problems easily