## **Division of Fractional Number**

To divide a fraction by a whole number or another fraction, take the reciprocal of the divisor and multiply it with the original fraction.



## **Division of a Fraction by a Whole Number**

**Example:** Divide  $\frac{1}{9}$  by 3.

**Solution:**  $\frac{1}{9} \div 3$ 

• Multiply  $\frac{1}{9}$  by the reciprocal of the divisor (here the divisor is 3 and its reciprocal)

is 
$$\frac{1}{3}$$
.  $=\frac{1}{9} \times \frac{1}{3} = \frac{1}{27}$ 



## **Division of a Whole Number by a Fraction**

**Example:** Divide 10 by  $\frac{1}{5}$ 

**Solution:**  $10 \div \frac{1}{5}$ 

• Multiply 10 by the reciprocal of the divisor (here the divisor is  $\frac{1}{5}$  and its reciprocal is 5) =  $10 \times 5 = 50$ 



## **Division of a Fraction by Another Fraction**

**Example:** Divide  $\frac{1}{5}$  by  $\frac{1}{6}$ 

**Solution:**  $\frac{1}{5} \div \frac{1}{6}$ 

$$=\frac{1}{5}\times 6$$

(Reciprocal of  $\frac{1}{6}$  is 6)

$$=\frac{6}{5}=1\frac{1}{5}$$

