



## Conversion of One Unit into Another Unit

### Understanding Conversion of One Unit into Another Unit

- Conversion means changing from one unit to another to make calculation easier.
- Units can be smaller to bigger (divide) or bigger to smaller (multiply).
- Used for length, weight, and capacity measurements.

### Length Conversion

- $10 \text{ mm} = 1 \text{ cm}$
- $100 \text{ cm} = 1 \text{ m}$
- $1000 \text{ m} = 1 \text{ km}$
- To convert bigger to smaller  $\rightarrow$  multiply
- To convert smaller to bigger  $\rightarrow$  divide

### Weight Conversion

- $1000 \text{ mg} = 1 \text{ g}$
- $1000 \text{ g} = 1 \text{ kg}$
- Bigger to smaller  $\rightarrow$  multiply
- Smaller to bigger  $\rightarrow$  divide

### Capacity Conversion

- $1000 \text{ ml} = 1 \text{ l}$
- Bigger to smaller  $\rightarrow$  multiply
- Smaller to bigger  $\rightarrow$  divide

### Mixed Examples with Solutions

**Example:** Convert 3 m into cm

**Solution:**  $1 \text{ m} = 100 \text{ cm} \rightarrow 3 \times 100 = 300 \text{ cm}$

**Example:** Convert 1500 ml into liters

**Solution:**  $1500 \div 1000 = 1.5 \text{ l}$



**Example:** Convert 5 kg into grams

**Solution:**  $1 \text{ kg} = 1000 \text{ g} \rightarrow 5 \times 1000 = 5000 \text{ g}$

**Example:** Convert 400 cm into meters

**Solution:**  $400 \div 100 = 4 \text{ m}$

**Example:** Convert 3.5 l into ml

**Solution:**  $3.5 \times 1000 = 3500 \text{ ml}$

### Summary Points

- Conversion helps in comparing and calculating different units.
- Multiply when converting bigger to smaller units.
- Divide when converting smaller to bigger units.
- Know the standard relations:  $100 \text{ cm} = 1 \text{ m}$ ,  $1000 \text{ g} = 1 \text{ kg}$ ,  $1000 \text{ ml} = 1 \text{ l}$ .
- Practice makes conversion faster and easier in real-life problems.