Measurement of Capacity (Volume)

Understanding the Topic

Capacity tells us how much liquid a container can hold.

It is also called volume when we measure liquids like water, milk, oil, or juice.

Standard Units of Capacity

- Milliliter (ml) Used for small amounts like eye drops or medicine
- Liter (I) Used for larger amounts like water bottles, milk containers

Conversions of Units

• 1000 ml = 1 l

To convert milliliters to liters, divide by 1000

To convert liters to milliliters, multiply by 1000

Thousands	Hundreds	Tens	Ones	tenths	hundredths	thousandths
kilolitre	hectolitre	decalitre	litre	decilitre	centilitre	millilitre
(kL)	(hL)	(daL)	(L)	(dL)	(cL)	(mL)

This chart will help you to convert bigger units into smaller units and smaller units into bigger units.



Tools to Measure Capacity

- Measuring cup
- Water bottles
- Milk jugs

Examples with Solutions

1. Conversion (Easy)

Question: Convert 2500 ml into liters Solution: 2500 ÷ 1000 = 2.5 l

2. Addition (Moderate)

Question: A bottle has 1.5 | of juice and another has 2.25 | How much juice in total

Solution: 1.5 + 2.25 = 3.75 |

3. Subtraction (Easy)

Question: A tank contains 5 l of water If 1.75 l is used how much is left

Solution: 5 – 1.75 = 3.25 |

4. Word Problem (Moderate)

Question: A bucket holds 10 l of water A jug holds 500 ml How many jugs are needed to fill the bucket

Solution: 10 | = 10000 ml

10000 ÷ 500 = 20 jugs

5. Real-life Use (Moderate)

Question: A milkman delivers 3 | 500 ml of milk in the morning and 2 | 250 ml in the evening Find total milk delivered

Solution:

- 3 | 500 ml = 3.5 l
- 2 | 250 ml = 2.25 |

Total = 3.5 + 2.25 = 5.75 |

Summary Points

- Capacity is the measure of liquid a container can hold.
- Main units are millilitres and litres.
- 1000 ml = 1 l.
- Use litres for big amounts and millilitres for small quantities.
- Multiply to convert litres to millilitres.
- Divide to convert millilitres to litres.
- Capacity is useful in cooking, shopping, and storing liquids.
- Add or subtract only after converting all to same unit.
- Decimal values like 0.5 l or 2.75 l make capacity easy to write.
- Always write answers with correct units.