

## Chapter 12 Unit of length weight

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### MINDMAP – SIMPLE NOTES

- Units of Length
  - Millimetre (mm) – smallest unit
  - Centimetre (cm) –  $1\text{ cm} = 10\text{ mm}$
  - Metre (m) –  $1\text{ m} = 100\text{ cm} = 1000\text{ mm}$
  - Kilometre (km) –  $1\text{ km} = 1000\text{ m}$
- Units of Weight
  - Gram (g) – used for light objects
  - Kilogram (kg) –  $1\text{ kg} = 1000\text{ g}$
  - Used to measure fruits, vegetables, books, etc.
- Conversion Rules
  - To convert larger unit → smaller unit: multiply
  - To convert smaller unit → larger unit: divide
- Measuring Tools
  - Ruler – for cm/mm
  - Measuring tape – for m/cm
  - Weighing scale – for kg/g

### NOTES WITH RELEVANT EXAMPLES

1. Length Conversions
  - Example 1: Convert 3 m to cm  
→  $3 \times 100 = 300\text{ cm}$
  - Example 2: Convert 2500 m to km  
→  $2500 \div 1000 = 2.5\text{ km}$
  - Example 3: Convert 7 cm to mm  
→  $7 \times 10 = 70\text{ mm}$
2. Weight Conversions
  - Example 1: Convert 4 kg to g  
→  $4 \times 1000 = 4000\text{ g}$
  - Example 2: Convert 8500 g to kg  
→  $8500 \div 1000 = 8.5\text{ kg}$
  - Example 3: A bag of rice weighs 2 kg 300 g. Total in grams?  
→  $2\text{ kg} = 2000\text{ g} \rightarrow 2000 + 300 = 2300\text{ g}$
3. Real-life Applications
  - Height of a child = 120 cm
  - Distance between two towns = 45 km

- Weight of an apple = 150 g
- Weight of a school bag = 3 kg

## UNIT TEST

1. Fill in the blanks:
  - a) 1 km = \_\_\_\_\_ m
  - b) 1 kg = \_\_\_\_\_ g
  - c) 1 m = \_\_\_\_\_ cm
  - d) 1 cm = \_\_\_\_\_ mm
2. Convert the following:
  - a) 5 m to cm
  - b) 6000 g to kg
  - c) 8 km to m
  - d) 45 mm to cm
3. Solve:
  - a) Rahul bought 2 kg 500 g of sugar and 1 kg 750 g of flour. Find total weight in grams.
  - b) The length of a rope is 12 m 60 cm. Express it in centimetres.
4. Choose the correct unit:
  - a) Length of a pencil – (mm / cm / m)
  - b) Weight of a car – (g / kg)
  - c) Distance between cities – (m / km)
  - d) Weight of a chocolate – (g / kg)

## WORKSHEET

1. Convert:
  - a) 9 m = \_\_\_\_\_ cm
  - b) 3.5 kg = \_\_\_\_\_ g
  - c) 7000 m = \_\_\_\_\_ km
  - d) 120 mm = \_\_\_\_\_ cm
2. Add:
  - a) 3 kg 200 g + 1 kg 800 g
  - b) 5 m 40 cm + 2 m 75 cm
3. Subtract:
  - a) 6 kg 100 g – 2 kg 450 g
  - b) 10 m 20 cm – 4 m 85 cm
4. Word Problems:
  - a) A ribbon is 5 m long. If it is cut into 10 equal pieces, what is the length of each piece in cm?
  - b) A watermelon weighs 4 kg 200 g. An apple weighs 300 g. How much heavier is the watermelon?

**SOLUTIONS – UNIT TEST**

- 1000
  - 1000
  - 100
  - 10
- $5 \times 100 = 500$  cm
  - $6000 \div 1000 = 6$  kg
  - $8 \times 1000 = 8000$  m
  - $45 \div 10 = 4.5$  cm
- 2 kg 500 g = 2500 g; 1 kg 750 g = 1750 g; Total = 2500 + 1750 = 4250 g
  - 12 m = 1200 cm; 1200 + 60 = 1260 cm
- cm
  - kg
  - km
  - g

**SOLUTIONS – WORKSHEET**

- $9 \times 100 = 900$  cm
  - $3.5 \times 1000 = 3500$  g
  - $7000 \div 1000 = 7$  km
  - $120 \div 10 = 12$  cm
- $3 \text{ kg } 200 \text{ g} + 1 \text{ kg } 800 \text{ g} = (3 + 1) \text{ kg} + (200 + 800) \text{ g} = 4 \text{ kg} + 1000 \text{ g} = 5 \text{ kg}$
  - $5 \text{ m } 40 \text{ cm} + 2 \text{ m } 75 \text{ cm} = (5 + 2) \text{ m} + (40 + 75) \text{ cm} = 7 \text{ m} + 115 \text{ cm} = 8 \text{ m } 15 \text{ cm}$
- $6 \text{ kg } 100 \text{ g} = 6100 \text{ g}$ ;  $2 \text{ kg } 450 \text{ g} = 2450 \text{ g}$ ;  $6100 - 2450 = 3650 \text{ g} = 3 \text{ kg } 650 \text{ g}$
  - $10 \text{ m } 20 \text{ cm} = 1020 \text{ cm}$ ;  $4 \text{ m } 85 \text{ cm} = 485 \text{ cm}$ ;  $1020 - 485 = 535 \text{ cm} = 5 \text{ m } 35 \text{ cm}$
- $5 \text{ m} = 500 \text{ cm}$ ;  $500 \div 10 = 50 \text{ cm}$
  - Watermelon = 4200 g; Apple = 300 g; Difference =  $4200 - 300 = 3900 \text{ g} = 3 \text{ kg } 900 \text{ g}$