

24/09/2020

CLASS - IV

CHAPTER - 11

MEASUREMENT OF LENGTH, MASS AND CAPACITY

Units of Measurement are:

- metre (m) for length
- gram (g) for mass
- litre (L) for capacity

There are units between kilo and milli. In addition to kilo and milli, prefixes like hecto, deca, deci and centi are used to relate to the basic unit.

			Basic Unit			
kilo	hecto	deca	metre	deci	centi	milli
			gram			
			litre			

Conversion of units:

• To convert a bigger unit into a smaller unit: \Rightarrow
multiply by 10 for every step that we descend.

• To convert a smaller unit into a bigger unit: \Rightarrow
divide by 10 for every step that we climb.

2. Convert the following :-

b) 10 km 10 cm into cm

$$\begin{aligned} & 10 \text{ km } 10 \text{ cm} \\ &= (10 \times 10000) \text{ cm} + 10 \text{ cm} \\ &= 100000 \text{ cm} + 10 \text{ cm} \\ &= 100010 \text{ cm} \end{aligned}$$

Ans. 100010 cm

f) 215 cm into m

$$\begin{aligned} & 215 \text{ cm} \\ &= \frac{215}{100} \text{ m} \\ &= 2.15 \text{ m} \end{aligned}$$

Ans. 2.15 m

3. Convert the following :-

b) 8 kg 8 g into dg

$$\begin{aligned} & 8 \text{ kg } 8 \text{ g} \\ &= (8 \times 10000) \text{ dg} + (8 \times 10) \text{ dg} \\ &= 80000 \text{ dg} + 80 \text{ dg} \\ &= 80080 \text{ dg} \end{aligned}$$

Ans. 80080 dg

f) 720 cg into g

$$\begin{aligned} & 720 \text{ cg} \\ &= \frac{720}{100} \text{ g} \end{aligned}$$

$$= 7.2 \text{ g}$$

Ans. 7.2 g

4. Convert the following :-

c) 6 kL 3 daL into L

$$\begin{aligned} & 6 \text{ kL } 3 \text{ daL} \\ &= (6 \times 1000) \text{ L} + (3 \times 10) \text{ L} \\ &= 6000 \text{ L} + 30 \text{ L} \\ &= 6030 \text{ L} \end{aligned}$$

Ans 6030 L

e) 8100 mL into L

$$\begin{aligned} & 8100 \text{ mL} \\ &= \frac{8100}{1000} \text{ L} \\ &= 8.1 \text{ L} \end{aligned}$$

Ans. 8.1 L

5. Convert the following :-

e) 3479 g into kg and g

$$\begin{aligned} & 3479 \text{ g} \\ &= \frac{3479}{1000} \text{ kg} \\ &= 3.479 \text{ kg} \\ &= 3 \text{ kg } 479 \text{ g} \\ &\text{Ans. } 3 \text{ kg } 479 \text{ g} \end{aligned}$$

i) 6398 dL into daL, L and dL

$$\begin{aligned} & 6398 \text{ dL} \\ &= \frac{6398}{100} \text{ daL} \\ &= 63.98 \text{ daL} \\ &= 63 \text{ daL } 9 \text{ L } 8 \text{ dL} \\ &\text{Ans. } 63 \text{ daL } 9 \text{ L } 8 \text{ dL} \end{aligned}$$

Dear children, Practice the above sums in your cpw copy. -