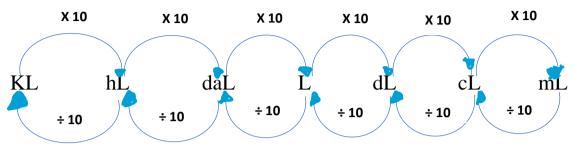
#### **Capacity**

- (a) The amount of liquid a container can hold is called capacity.
- (b) The standard unit of capacity is **litre** (L).
- (c) To change from higher unit to lower unit, we multiply each step by 10.



- (d) To change from lower to higher units , we divide each step by 10.
- (e) Kilolitre , Hectolitre and Decalitre are higher units.
- (f) Decilitre , Centilitre and Millilitre are lower units.

### Important Relationships

1  kL = 1000  L 1  hL = 100  L	$1 \text{ mL} = \frac{1}{1000} \text{ L} = 0.001 \text{ L}$ $1 \text{ cL} = \frac{1}{100} \text{ L} = 0.01 \text{ L}$
1  daL = 10  L	$1 \text{ dL} = \frac{1}{10} \text{ L} = 0.1 \text{ L}$



# 1. Fill in the blanks.

- (a) 7 L =  $\_$  mL
- (c)  $18 \text{ kL} = \_\_\_ \text{ daL}$
- (e)  $7.854 \text{ kL} = \_\_\_ \text{L}$
- (g) 3.8 L = \_\_\_\_\_ dL
- (b)  $235 \text{ dL} = \_ daL$ (d)  $4468 \text{ L} = \_ kL$ (f)  $120 \text{ hL} = \_ dL$ (h)  $137.3 \text{ cL} = \_ dL$

Solution 1:-

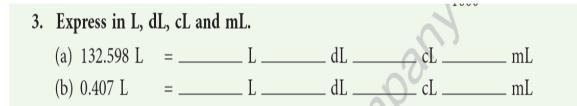
(a) 7L= \_\_\_\_\_mL (b) 235 dL = \_\_\_\_ dal 1 L = 1000 ml  $1dL = \frac{1}{100} dal$ 7L = 7×1000 mL 235 dL = 235 dal = 7000 mL = 2.35 dal (C) 18KL = \_\_\_\_ dal (e) 7.854 KL = |k| = 100 dal1 KL = 1000 L 18KL = 18×100 dal 7.854 KL = 7.854 X 1000 L = 1800 dal = 78542 (h) 137.3 cl = \_\_\_\_ dl 1 CL = 1 dL137.3 cL = 137.3 dL= 13.73 dL

In Q1. (d), (f) and (g) are homework.

2. State true (T) or false (F) for the following statements.

- (a) 1 kilolitre = 1000 millilitre
- (c) 1 decilitre =  $\frac{1}{100}$  litre F
- (e) 1 decalitre = 100 decilitres  $\top$
- (g) 1 centilitre = 100 litres

(b) 1 litre = 100 centilitres (d) 1 hectolitre =  $\frac{1}{10}$  kilolitre (f) 1000 millilitres = 1 litre (h) 1 litre =  $\frac{1}{1000}$  kilolitres



F

#### **Solution 3:-**

(a)	132.598L = L dL cL mL
H	132L+0.51+0.09L+0.008L
и	132L+ 0.5X10dL+ 0.09X100 CL+ 0.008×1000 mL . IL=100LL
II	132L+5dL+9cL+8mL
Ans	) 132L 5dL 9cl 8mL

In Q3. (b) is homework.

4.	Using decimal nota	ation, express	s in litres.			
	(a) 22 L 4 dL 8 cL	=	L	(b) 88 L 9 mL	=	L
	(c) 2 dL 8 mL	=	L	) (d) 415 L 3 cL 5 mL	=	L

#### **Solution 4:-**

(a)	22L 4dL 8cl =
the second se	$\begin{array}{c} 22L + 4dL + 8cL \\ 22L + 4dL + 8cL \\ 10 \\ 100 \\ \end{array} \qquad \begin{bmatrix} 0 & 1dL = \frac{1}{10}L \\ 0 \\ 1cL = \frac{1}{100}L \\ 1cL = \frac{1}{100}L \\ 100 \\ \hline \end{array}$
and the second	221+0.41+0.08 cl 22.48L
(c)	2 dl 8 mL $\int \frac{1}{2} dl = \frac{1}{2} L$
=	$\frac{2}{10} \frac{L+8}{1000} L = \frac{1}{1000} L$
Ξ	0.2L + 0.008L = 0.208L

# In Q4. (b) and (d) are homework.

5. A bottle can store 1.23 L of water. This is same as \_\_\_\_\_ millilitres.

## Solution 5:-

1.23L = mL
= 1L = 1000 mL
1.23L = 1.23X1000 mL = 1230 mL
- 1200 me

6. A huge water tank can store 15000 litres of water for the entire society. Its capacity in kilolitres is \_\_\_\_\_.

Solution 6:-

This question is homework.

7. Rehman used 2030 mL of cooking oil in a month. The oil used by him in litres is \_\_\_\_\_.

#### Solution 7:-

2030 mL = mt = 1000 2030 2030ml = 1000 = 2.0302

# Self Practice-11 D and 11E are omitted