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## L-11 Measurement Mass, capacity and length

### all points to remember

- 1 kilogram (kg) = 1000 gram (g)
- 1 litre (l) = 1000 millilitres (ml)
- 1 Metre (m) = 100 centimetre (cm)
- 1 centimetre (cm) = 10 millimetre (mm)
- Capacity is the amount of liquid a container can hold.

### Q.2) Abstract stage (pg no. 124)

- Kabeer's mom takes medicine per day = 5ml. for 3 days she takes =  $3 \times 5\text{ml} = 15\text{ml}$ .

Ans- Thus she will take 15ml medicine all together.

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### 2) Solution

Diya swam in first round = 24m  
She swam in second round = 36m  
Total distance she covered = 60m

Ans- Thus, Diya swim 60 m in total. (page no. 130)

- Write the given lengths in cm and mm

a) 99mm

We know that 1 cm = 10 mm

$$99\text{mm} = 90\text{mm} + 9\text{mm}$$

9cm 9mm

b) 100mm = 10 cm

c) 45 mm = 40 mm + 5 mm = 4 cm 5 mm

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$$d) 62 \text{ mm} = 60 \text{ mm} + 2 \text{ mm} = 6 \text{ cm } 2 \text{ mm}$$

Abstract stage (page no. 130)

$$2) \text{ Length of a toothpick} = 7 \text{ mm}$$

$$\text{Length of such 10 toothpicks} = 7 \text{ mm} \times 10 = 70 \text{ mm.}$$

$$1 \text{ cm} = 10 \text{ mm}$$

$$70 \text{ mm} = 7 \text{ cm}$$

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$$2) 5 \text{ km } 600 \text{ m}$$

We know that  $1 \text{ km} = 1000 \text{ m}$

$$\text{So, } 5 \text{ km} = 5 \times 1000 = 5000 \text{ m}$$

$$5 \text{ km } 600 \text{ m} = 5000 \text{ m} + 600 \text{ m} = 5600 \text{ m}$$

$$3) 9657 \text{ m}$$

$$1 \text{ km} = 1000 \text{ m}$$

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$$9657 \text{ m} = 9000 \text{ m} + 657 \text{ m}$$

$$9 \text{ km } 657 \text{ m}$$

\* Blooming Questions (page no. 138)

$$6) \text{ Masses of all packages}$$

$$9 \text{ kg}$$

$$1 \quad 2 \text{ kg}$$

$$\underline{5 \text{ kg}}$$

$$\underline{2 \quad 6 \text{ kg}}$$

$$7a) 1 \text{ L} = 1000 \text{ ml}$$

$$1 \text{ L} = 10 \times 100 \text{ ml}$$

Capacity of a cup is 100 ml

So, she will scoop 10 cups of water to fill the 1 Litre of jar.

$$b) 1 \text{ L} = 1000 \text{ ml}$$

$$1 \text{ L} = 100 \times 10 \text{ ml}$$

There are 100 groups of 10 ml.

8) No. of water cooler = 4  
Capacity of each water cooler = 7L

Total amount of water =  $7 \times 4 = 28L$

Thus, the fill 28L of water.

9) Capacity of a bucket = 3L  
Capacity of 4 bucket =  $3L \times 4 = 12L$   
So, the capacity of the container is  
 $= 12L + 2L = 14L$

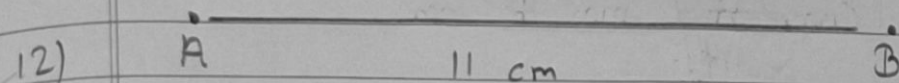
10) Water needed by Angali's recipe = 640 ml.

Water needed by Daksh's recipe = 860 ml

$$\begin{array}{r} 860 \text{ ml} \\ - 640 \text{ ml} \\ \hline 220 \text{ ml} \end{array}$$

Thus, 220 ml more water needed by Daksh.

11) Text book :-  
14 cm , 10 cm



13) 15 m 75 cm  
 $= 15 \times 100 \text{ cm} + 75 \text{ cm}$   
 $= 1500 + 75$   
 $= 1575 \text{ cm}$

14) 152 cm = 100 cm = 145 cm  
 $= 1 \text{ m } 52 \text{ cm}$

15) 1 m 45 cm = 145 cm  
1 m 38 cm = 138 cm

$\textcircled{3}$   $\textcircled{15}$   
14 4 5

$$\begin{array}{r} 1445 \\ - 138 \\ \hline 1307 \text{ cm} \end{array}$$

So, Eharan is taller by 7cm Manan.

Post activity

Q.1) Converting mm to cm

While converting mm to cm, we divide by 10.

$$1 \text{ mm} = \frac{1}{10} \text{ cm} = 0.1 \text{ cm}$$

$$\begin{aligned} \text{eg i)} - 30 \text{ mm} &= \frac{30}{10} \text{ cm} \\ &= 3 \text{ cm} \end{aligned}$$

$$\begin{aligned} \text{ii)} \quad 56 \text{ mm} &= \frac{56}{10} \text{ cm} \\ &= 5.6 \text{ cm} \end{aligned}$$

Q.2) Converting cm to m

While converting cm to m, we divide by 100.

$$1 \text{ cm} = \frac{1}{100} \text{ m} = 0.01 \text{ m}$$

$$\begin{aligned} \text{eg } 567 \text{ cm} &= \frac{567}{100} \text{ m} \\ &= 5.67 \text{ m} \end{aligned}$$

Q.3) Converting m to km

While converting m to km, we divide by 1000.

$$1 \text{ m} = \frac{1}{1000} \text{ km}$$

$$\text{eg. } 4670 \text{ m} = \frac{4670}{1000} \text{ km}$$

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$$4670 = 4.670 \text{ km}$$