

Class-5

Subject-Mathematics

Chapter-11

Measurement

Lecture-10

Creative Question

- 1. A family needs 36 L drinking water in 3 days.
 - a. How many deciliters of water do they need in a day?
 - b. How many centiliters of water do they need in 4 days?

Solution:

a) In 3 days a family needs drinking water = 36 L " " " ∴"1 " " = (36 ÷ 3) L = 12 | $= (12 \times 10) \text{ dl} [:: 1L = 10 \text{ dl}]$ = 120 dl

Ans: 120 dl.

b) From 'a' we get,

In 1 days a family needs drinking water = 120 dl **:: "** 4 " " " " " $= (120 \times 4) \, dI$ = 480 dl = (480 × 10) cl [::1dl =10 cl] = 4800 cl

Ans: 4800 cl.

- 2. 1000 ml of water hold in a bottle.
 - a. How many liters of water will hold in 15 similar bottles?
 - b. It is needed to fill a bucket by 30 bottles of with 500 ml water. How many liters of water will hold in the bucket?
 - c. If you take out 2 liters and 500 ml of water from the bucket, how much water will be remain?

Solution:

a) 1 bottle contains = 1000 ml

$$\therefore 15$$
 " = (1000 × 15) ml
= 15000 ml
= (15000 ÷ 1000) L [$\because 1ml = \frac{1}{1000}$ L]
= 15 L

Ans: 15 L.

b) 1 bottle contains = 500 ml
∴30 " " = (500 × 30) ml
= 15000 ml
= (15000 ÷ 1000) L [∵1ml =
$$\frac{1}{1000}$$
 L]
= 15 L
Ans: 15 L.

c) Here, 2L 500 ml = 2L + (500 ÷ 1000) L [\because 1ml = $\frac{1}{1000}$ L] = 2L + 0.5L = 2.5 L \therefore If I take out 2.5 liters of water from the bucket, water will remain = (15.0 - 2.5) L = 12.5 L Ans: 12.5 L.

- 3. The length of one side square region is 41 m.
 - a. What is the area of the square region?
 - b. If the length is 1 m least, what will be the area of the region?
 - c. If the length is extending 1 m and breadth is reducing 1 m, what will be the area of the region?

Solution:

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a) Given,
    Side of a square = 41 m
  We know.
    Area = Side \times Side
          = (41 \times 41) Sq. m.
          = 1681 Sq. m.
     Ans: 1681 Sq. m.
b) If the length is 1m least then length = (41-1)m = 40m
We know.
    Area = Side \times Side
          = (40 \times 40) Sq. m.
          = 1600 Sq. m.
     Ans: 1600 Sq. m.
c) If the length is extending 1 m and breadth is reducing 1 m then,
       Length = (41 + 1) m = 42 m
       Breadth = (41 - 1) m = 40 m
We know,
    Area = Length \times Breadth
          = (42 \times 40) Sq. m.
          = 1680 Sq. m.
     Ans: 1680 Sq. m.
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Exercise (Do yourself)

1. Mahin goes to school on foot in 25 minutes walking 20 meters per minutes.

- a. What is the distance from his house to school?
- b. How much time will he take if he walks 25 m per minutes?
- c. Convert the distance from house to school in km.
- 2. Mr. Jalal bought 4.5 kg rice, 9 hg of vegetables and 2100 g of fish.
 - a. Write 9 hg in kg.
 - b. Write 2100 g in kg.
 - c. How many kg of items did he buy?