Covid-19 sathi pasala Grade 9 - march 4th week

Liquid measurements

• To revise your knowledge do the revision

The relationship between cubic centimeter and milliliter.

- Do the activity 01.
- · When you do the activity you can understand

$$10cm^3 = 10ml \text{ and } 20cm^3 = 20ml$$

According to that,

Example Number 01

The length, breadth and height of a glass container which is filled with fruit juice are 30cm, 25cm and 10cm

- I. Find the volume of the container in cubic centimeters?
- II. What is the capacity of it in milliliters?
- III. What is the capacity of it in liters?
- IV. If that juice is used to make small fruit juice bottle with capacity 75ml, find the total number of small bottle made by using the whole volume of fruit juice?

Answers

I. Volume of the container = $30 \text{cm} \times 25 \text{cm} \times 10 \text{cm}$ = 7500cm^3 II. Capacity of container in milliliters = 7500 mlIII. Capacity of the container in liters. = 751IV. Number of small fruit juice bottles = $7500 \div 75$ = 100

Example Number 02

The volume of water included in a cubic shape container is 96l if the length and breadth of the base are 80cm and 60cm find the height of water level?

Answers.

Volume of water = 96l =96000ml = 96000cm³ $80 \times 60 \times h = 96000$ cm³ h = 96000 cm³ 80×60 h = 20cm So height of the water level is 20cm.

• According to that do the exercises 9.1

Relationship between liter and cubic meter

1 cubic meter =
$$1000$$
 liters
 $1m^3 = 1000$ l

Example Number 03

Find the volume of a cube with a side length 1m?

Answers

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Volume = 1m \times 1m \times 1m
= 100cm \times 100cm \times 100cm
= 1000\ 000cm^3
= 1000\ 000ml
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Example Number 04

Length , breadth and height of a water tank is 2m,1.5m and 1m

- I. Find the capacity of the tank in liters?
- II. If house hold domestic usage of water per day is 150l how many days can they use the amount of water?

Answers

I. Capacity =
$$2 \times 1.5 \times 1$$

= $3m^3$
= 3000I

II. Number of days =
$$\frac{3000l}{150}$$

= 20 days