

Day 1 Dec 2020

Chapter - 15 (Holding Capacity)  
Ex - 15.1

Q1. Radha poured \_\_\_\_\_ thermos?

Sol. Total amount of water poured by Radha in thermos  
 $\Rightarrow 500\text{ml} + 200\text{ml} + 100\text{ml} = 800\text{ml}$   
Thermos is half filled on pouring 800 ml. water in it,  
then water used to fill thermos completely  
 $\Rightarrow 800 + 800 = 1600\text{ml}$   
Therefore capacity of thermos is 1600 ml.

Q2. In a small \_\_\_\_\_ Such bottles?

Sol. Capacity of a small can / bottle of kerosene = 3 L.  
Amount of kerosene required to fill 8 bottles  
 $\Rightarrow 8 \times 3 = 24\text{L}$   
Amount of kerosene required = 24 L.

Q3. How many \_\_\_\_\_ milk?

Sol. Amount of milk = 10 L. =  $10 \times 1000 = 10000\text{ml}$   
Capacity of 1 packet = 250 ml  
No. of packets  $\Rightarrow 10000 \div 250$   
40

$$\begin{array}{r} 250 \overline{) 10000} \\ \underline{10000} \\ 00 \end{array}$$

Therefore, 40 packets of 250 ml of milk can be packed in 10 L. of milk.

Day 2 Dec 2020

Ex 15.1

Q4. In a drum

how much oil is required?

Sol. Total amount / capacity of drum = 200 liter  
Total capacity of drum filled in 10 drums of 5 L

$$\Rightarrow 5 \times 10 = 50 \text{ L}$$

Total capacity of drum filled in 20 bottles of 3 L

$$\Rightarrow 20 \times 3 = 60 \text{ L}$$

Total capacity of drum filled in 15 bottles of 2 L

$$\Rightarrow 15 \times 2 = 30 \text{ L}$$

Therefore, total amount of oil filled

$$\Rightarrow 50 \text{ L} + 60 \text{ L} + 30 \text{ L} = 140 \text{ L}$$

Remaining oil = 200 L - 140 L = 60 L

Remaining oil can be filled in drum of 1 L.

Therefore, number of drums filled in 60 L oil = 60.

Q5. Fill in the blanks

(i) In  $1 \frac{1}{2}$  L, 500 ml holding 3 hats can be filled

Sol.  $\Rightarrow 1 \frac{1}{2} \text{ L} = \frac{3}{2} \times \frac{500}{1000} = \frac{1500 \text{ mL}}{2} = 750 \text{ mL}$

(ii) By taking 500 ml 2 times 1 liter hat can be filled.

$$500 + 500 = 1000 \text{ mL}$$

(iii) At the rate of ₹ 40 per liter, the value of 250 ml. milk is ₹ 90.

Sol.  $2.250 \text{ ml} \times 40 =$

①	②
2.250	
X 40	
0 0 0 0	
9 0 0 0	X
9 0. 0 0 0	

(iv) 1000 mm is equal to 1 liter.

Q6.

Sol. Above tap fills in 1 hour = 25 l. water.  
Above tap fills in 4 hour =  $25 \times 4 = 100$  l. water.  
Again, bottom tap in 1 hour = 10 l. water.  
Bottom tap in 4 hour =  $10 \times 4 = 40$  l. water.  
Amount of water in tank after 4 hour.

$$100 - 40 = 60 \text{ l.}$$

Therefore the amount of water in a tank after 4 hour = 60 l.

4 Dec 2020

Ex 15.1

Q7. Ramesh has \_\_\_\_\_ used?

sol Capacity of tank  $\Rightarrow$  600 liter

Water used in a day = 20 buckets

Capacity of 1 bucket = 10 liter

Capacity of 20 buckets =  $20 \times 10 = 200$  liter

Number of days  $\Rightarrow$   $\frac{\text{Capacity of water tank}}{\text{Capacity Used water in a day}}$

$$\Rightarrow \frac{600}{200} = 3 \text{ Days}$$

Q8.

sol Given - first tap fill the tank in 2 hours  
in one hour first tap fill half tank =  $\frac{1}{2}$

given  $\Rightarrow$  second tap empty the tank in 4 hours  
in one hour second tap empty =  $\frac{1}{4}$

so 1 hour position of tank =  $\frac{1}{2} - \frac{1}{4}$

$$\Rightarrow \frac{2 - 1}{4} = \frac{1}{4}$$

Ex. 15.2

Q1 Convert  $3\frac{1}{2}$  km into m.

Sol 1 km = 1000 m

$$\Rightarrow 3\frac{1}{2} = \frac{7}{2} \times \frac{500}{1000}$$

$$\Rightarrow 3500 \text{ meter}$$

Q2. Convert 6500 gm into kilogram.

Sol 1000 gm is equal to 1kg

$$\Rightarrow \frac{6500}{1000} = 6.5 \text{ Kg}$$

Q3. Convert 2250 mm into liter.

Sol 1000 mm = 1 liter

$$\frac{2250}{1000} = 2.25 \text{ liter.}$$

Day 5 Dec 2020 Ex 15.2

Q4 Convert 18000 ml into liter.

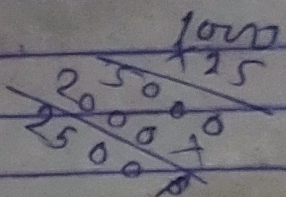
Sol  $1000 \text{ ml} = 1 \text{ liter}$   
 $18000 \text{ ml} = \frac{18000}{1000} = 18 \text{ liter.}$

Q5 Convert 75000 gm into kg.

Sol  $1000 \text{ gm} = 1 \text{ kg.}$   
 $\Rightarrow \frac{75000}{1000} = 75 \text{ kg.}$

Q6 Convert 2.5 liter into ml.

Sol  $1 \text{ liter} = 1000 \text{ ml.}$   
 $2.5 \times 1000 = 2500 \text{ ml.}$



Q7 Convert  $1\frac{1}{2}$  kg into gram.

Sol  $1\frac{1}{2} \Rightarrow \frac{3}{2} \text{ kg}$   
 $1 \text{ kg} = 1000 \text{ g}$   
 $\frac{3}{2} \times 1000 = 1500 \text{ gram.}$

Q8 Convert 3 meter into millimeter.

Sol  $1 \text{ m} = 1000 \text{ mm.}$   
 $3 \times 1000 = 3000 \text{ mm.}$

Q9. How many drum \_\_\_\_\_ liter?

Sol Total capacity of tank = 5000 liter.  
Capacity of 1 drum = 20 liter  
Number of drum  $\Rightarrow \frac{5000}{20} = 250$

Q10. For The holdings \_\_\_\_\_ drum?

Sol Total capacity of a drum = 3750 liter  
Capacity of a box = 15 liter.  
Number of boxes  $\Rightarrow \frac{3750}{15} = 250$

Q11. The holding \_\_\_\_\_ 48 boxes?

Sol Capacity of 1 box = 13kg 500g.  
Capacity of 48 boxes  $\Rightarrow 13.500 \times 48 = 648 \text{kg}$ .

$$\begin{array}{r} 13 \text{ kg } 500 \text{ g} \\ \times \quad 48 \\ \hline 108 \quad 000 \\ 540 \quad 000 \\ \hline 648 \quad 000 \end{array}$$

Capacity of 48 boxes = 648kg.

Q12. Holding Capacity \_\_\_\_\_ Containers?

Sol. Capacity of 1 Container = 15 liter.  
Capacity of 15 Containers  $\Rightarrow$   $15 \times 15$   
225 liter.

$$\begin{array}{r} 15 \\ \times 15 \\ \hline 75 \\ 150 \\ \hline 225 \end{array}$$

Q13. The weight of \_\_\_\_\_ bottles.

Sol. weight of 1 oil bottle = 1 kg 750 gm  
weight of 20 bottles =  $1.750 \times 20 = 35 \text{ kg}$

$$\begin{array}{r} 1 \text{ kg} \quad 750 \text{ g} \\ \times 20 \\ \hline 0 \quad 000 \\ 35 \quad 000 \\ \hline 35 \quad 000 \end{array}$$

Q14. Convert 5 liter 750 mm. into mm.

Sol. 1 liter = 1000 mm  
 $5 \times 1000 = 5000 + 750 = 5750 \text{ mm.}$

Q15. Convert  $2\frac{3}{4}$  km into meter.

Sol. 1 km = 1000 m  
 $2\frac{3}{4} = \frac{11}{4} \times 1000 = 2750 \text{ m.}$