

Q.5) Compare the given measurements. ($>$, $<$ or $=$)

1. $27 \text{ km} > 2700 \text{ m}$
 4. $386 \text{ mm} > 300 \text{ mm}$

2. $8570 \text{ g} > 8\frac{1}{2} \text{ kg}$
 5. $57 \text{ kg} > 5936 \text{ g}$

3. $2200 \text{ cm} = 22 \text{ m}$
 6. $108 \text{ g} < 11800 \text{ cg}$

Q.6) Solve the following

a) Express 8 litres in cubic centimetre.

8 l in cm^3
 $1 \text{ l} = 1000 \text{ ml} = 1000 \text{ cm}^3$
 (∵ $1 \text{ ml} = 1 \text{ cm}^3$)
 $\therefore 8 \text{ l} = 8000 \text{ ml} = 8000 \text{ cm}^3$

b) Express $\frac{5}{7}$ L in cL

$1 \text{ l} = 100 \text{ cl}$
 $\frac{5}{7} \text{ l in cl}$
 $= \frac{5}{7} \times 100 \text{ cl}$
 $= \frac{500}{7} = 71\frac{3}{7} \text{ cl}$

c) $125 \text{ kg } 400 \text{ g} - 112 \text{ kg } 650 \text{ g}$

kg	g
125	400
- 112	650
12	750
kg	g

d) $44 \text{ L } 325 \text{ mL} + 65 \text{ L } 811 \text{ mL}$

l	ml
44	325
+ 65	811
110	136
l	ml

Q.7) Word problems.

1) A milkman had 25 L of milk. He sold 12 L 750 mL in the morning and 8 L 875 mL in the evening. How much milk is left?

Total volume of a milk = 25 l

Volume of milk sold:-

in the morning

in the evening

12 l	750 ml
+ 08 l	875 ml
21 l	625 ml

Volume of milk left

25 l	990 ml
- 21 l	625 ml
3 l	375 ml

$\therefore 3 \text{ l } 375 \text{ ml}$ of milk is left.

2) A rectangular wall 27 m long, 60 cm thick and 4 m high is to be built. If cube-shaped bricks of side 30 cm each are used, how many bricks will be required to build the wall?

Volume of a wall = $l \times b \times h$

$l = 27 \text{ m}$ (2700 cm)

$b = 60 \text{ cm}$

$h = 4 \text{ m}$ (400 cm)

Volume of a wall
 $= 2700 \text{ cm} \times 60 \text{ cm} \times 400 \text{ cm}$
 $= 64800000 \text{ cm}^3$

Volume of a cube-shaped brick

$= \text{Side} \times \text{Side} \times \text{Side}$

$= 30 \text{ cm} \times 30 \text{ cm} \times 30 \text{ cm}$

$= 27000 \text{ cm}^3$

No. of bricks required = $\frac{64800000}{27000}$
 $= 2400$

$\therefore 2400$ bricks are required to build the wall.

3) A jug can hold 3 L 500 mL of water. How many 750 mL glasses can be filled completely from the jug? How much water will remain?

$$\text{Capacity of a jug} = 3 \text{ L } 500 \text{ mL } (3500 \text{ mL})$$

$$\text{Capacity of a glass} = 750 \text{ mL}$$

No. of glasses can be filled

$$= 3500 \text{ mL} \div 750 \text{ mL}$$

$$= 4 \text{ glasses}$$

\therefore 4 complete glasses can be filled and 500 mL of water will remain

4) A shopkeeper has 20 kg 500 g of sugar. He packs it equally into 5 bags. How much sugar is there in each bag?

$$\text{Total weight of a sugar} = 20 \text{ kg } 500 \text{ g}$$

$$\text{No. of bags} = 5$$

$$\text{Sugar in each bag} = 20 \text{ kg } 500 \text{ g} \div 5$$

$$= 4 \text{ kg } 100 \text{ g}$$

\therefore 4 kg 100 g of sugar is there in each bag.

5) There is a flowerbed 80 cm long, 40 cm wide and 2 cm deep in Shruti's garden. Find the volume of the soil the gardener dug out to make the bed.

$$\text{Volume of a soil to be dug out} = \text{Volume of a flowerbed.}$$

$$\text{Volume of a soil to be dug out}$$

$$= 80 \text{ cm} \times 40 \text{ cm} \times 2 \text{ cm}$$

$$= 6400 \text{ cm}^3$$

\therefore The gardener has to dig out 6400 cm³ soil to make the bed.