

8/11/19

Ch ~ 12

Measurement

Concept check 12 - (a)

1 Fill in the blanks

(a) $15 \text{ km} = 15000 \text{ m}$

(b) $4 \text{ hm} = 40 \text{ dam}$

(c) $9 \text{ m} = 900 \text{ cm}$

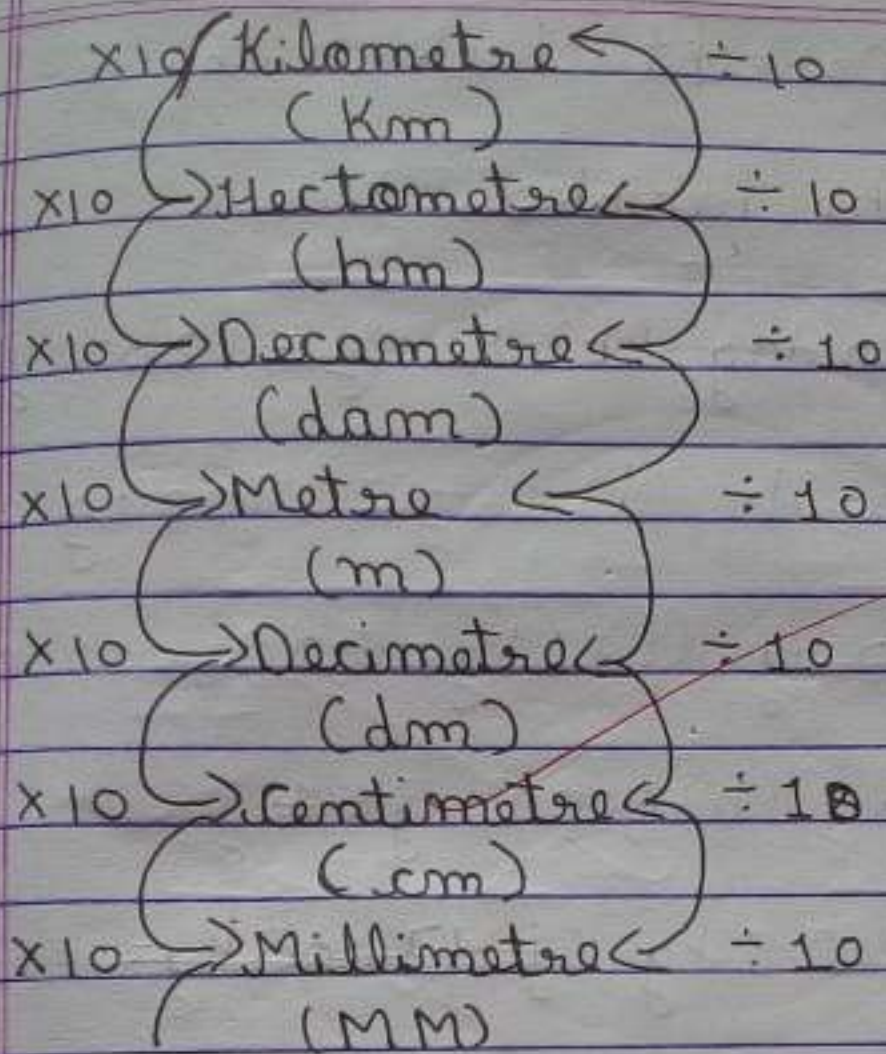
(d) $7 \text{ km} = 70,000 \text{ cm}$

(f) $5 \text{ km} = 5,00,000 \text{ cm}$

(g) $3000 \text{ mm} = 3 \text{ m}$

(i) $2000 \text{ mm} = 20 \text{ dm}$

(j) $19000 \text{ mm} = 19 \text{ m}$



Homework

(d) $18 \text{ m} = 18000 \text{ mm}$

(h) $10,000 \text{ cm} = 1 \text{ hm}$

(i) $15,000 \text{ dm} = 15 \text{ hm}$

(k) $16,000 \text{ m} = 16 \text{ Km}$

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Concept check 12-(b)

1 Fill in the blanks

(a) $5 \text{ kg} = 5000 \text{ dag}$ (b) $12 \text{ kg} = 12000 \text{ g}$

(c) $4 \text{ hg} = 4000 \text{ dg}$ (d) $16 \text{ g} = 1600 \text{ cg}$

(e) $28 \text{ kg} = 280 \text{ hg}$ (f) $1 \text{ kg} = 1000000 \text{ mg}$

(g) $700 \text{ cg} = 7 \text{ g}$ (h) $4000 \text{ mg} = 4 \text{ g}$

(i) $9000 \text{ dg} = 0.9 \text{ kg}$ (j) $17000 \text{ kg} =$

(j) $17000 \text{ kg} = 17000000 \text{ dg}$

(k) $70000 \text{ dag} = 7000000 \text{ mg}$

(l) $1400000 \text{ cg} = 14 \text{ kg}$

Concept check 12-(c)

1 Fill in the blanks

(a) $7 \text{ kl} = 7000 \text{ l}$ (b) $3 \text{ hl} = 3000 \text{ dl}$

(c) $12 \text{ dal} = 12000 \text{ dl}$ (d) $21 \text{ l} = 21000 \text{ ml}$

(e) $20 \text{ dl} = 20000 \text{ 0.02 hl}$

- (f) $10,00,000 \text{ ml} = 1 \text{ kg}$ (g) $80,000 \text{ cl} = 8 \text{ hl}$
 (h) $5,000 \text{ cl} = 500 \text{ dl}$ (i) $6,000 \text{ kl} = 6 \text{ l}$
 (j) $80,00,000 \text{ ml} = 800 \text{ dal}$

Concept check 12 - (d)

1 Add.

(a) 19.27 m	(b) 8.551 Km
$+ 8.31 \text{ m}$	$+ 0.179 \text{ Km}$
<u>27.58 m</u>	<u>8.730 Km</u>

(c) 6.49 g	(d) 1.032 Kg
$+ 8.125 \text{ g}$	$+ 0.671 \text{ Kg}$
<u>14.615 g</u>	<u>1.703 Kg</u>

(e) 67.781 l	(f) 19.501 l
$+ 2.501 \text{ l}$	$+ 10.27 \text{ l}$
<u>70.282 l</u>	<u>29.771 l</u>

2 Subtract

(a) 8.31 m	(b) 4.225 Km
$- 6.84 \text{ m}$	$- 0.561 \text{ Km}$
<u>15.15 m</u>	<u>4.786 Km</u>

2 Subtract

$$\begin{array}{r} \text{(a)} \quad 8.31 \text{ m} \\ - 6.84 \text{ m} \\ \hline 1.47 \text{ m} \end{array}$$

$$\begin{array}{r} \text{(b)} \quad 4.225 \text{ Km} \\ - 0.561 \text{ Km} \\ \hline 3.664 \text{ Km} \end{array}$$

$$\begin{array}{r} \text{(c)} \quad 67.37 \text{ g} \\ - 6.349 \text{ g} \\ \hline 61.021 \text{ g} \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 50.42 \text{ Kg} \\ - 11.05 \text{ Kg} \\ \hline 39.37 \text{ Kg} \end{array}$$

$$\begin{array}{r} \text{(e)} \quad 7.088 \text{ l} \\ - 3.062 \text{ l} \\ \hline 4.026 \text{ l} \end{array}$$

$$\begin{array}{r} \text{(f)} \quad 29.041 \text{ l} \\ - 12.028 \text{ l} \\ \hline 17.013 \text{ l} \end{array}$$

3 Multiply

$$\begin{array}{r} \text{(a)} \quad 2.36 \text{ m} \\ \times 3 \\ \hline 7.08 \text{ m} \end{array}$$

$$\begin{array}{r} \text{(b)} \quad 1.425 \\ \times 4 \\ \hline 5.700 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad 21.2 \\ \times 25 \\ \hline 1060 \\ + 4240 \\ \hline 530.0 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 4.34 \\ \times 32 \\ \hline 868 \\ + 13020 \\ \hline 138.88 \end{array}$$

$$\begin{array}{r} \text{(e)} \quad 4.863 \\ \times 5 \\ \hline 24315 \end{array}$$

$$\begin{array}{r} \text{(f)} \quad 12.8 \\ \times 18 \\ \hline 1024 \\ + 1280 \\ \hline 230.4 \end{array}$$

4 Divide.

(a) $12.75 \text{ m} \div 5$

$$\begin{array}{r}
 5 \overline{) 12.75} \quad (2.55 \\
 \underline{-10} \\
 \times 27 \\
 \underline{-25} \\
 \times 25 \\
 \underline{-25} \\
 00
 \end{array}$$

(b) $1.840 \text{ g} \div 8$

$$\begin{array}{r}
 8 \overline{) 1.840} \quad (0.23 \\
 \underline{-16} \downarrow \\
 \times 24 \\
 \underline{-24} \\
 000
 \end{array}$$

(c) $9.81 \text{ Km} \div 9$

$$\begin{array}{r}
 9 \overline{) 9.81} \quad (1.09 \\
 9 \\
 081 \\
 \underline{-81} \\
 00
 \end{array}$$

(d) $133.32 \text{ Kg} \div 11$

$$\begin{array}{r}
 11 \overline{) 133.32} \quad (12.12 \\
 \underline{-11} \downarrow \\
 \times 23 \\
 \underline{-22} \downarrow \\
 \times 13 \\
 \underline{-11} \downarrow \\
 \times 22 \\
 \underline{-22} \\
 \hline
 \text{X}
 \end{array}$$

Ans 12.12 Kg

(e) $31.695 \text{ l} \div 15$

$$\begin{array}{r}
 15 \overline{) 31.695} \quad (2.113 \\
 \underline{-30} \downarrow \\
 \times 16 \\
 \underline{-15} \downarrow \\
 \times 19 \\
 \underline{-15} \downarrow \\
 \times 45 \\
 \underline{-45} \\
 \hline
 \text{X}
 \end{array}$$

$= 2.113 \text{ l}$

$$(1) 25.851 \div 21$$

$$21 \overline{) 25.851} \quad 1.231$$

$$\underline{- 21} \downarrow$$

$$\times 48$$

$$\underline{- 42} \downarrow$$

$$\times 65$$

$$\underline{- 63} \downarrow$$

$$\times 21$$

$$21$$

$$\times \times$$

$$= 1.231$$

Leif
16/11/19

20/11/19

Concept check 12-e

6

1 Length of Bhuben Hazarika bridge = 9.155 km

Length of Mahatma Gandhi bridge = 5.755 km

Longer the Bhuben bridge is than = 3.400
Gandhi bridge

Ans = 3.4 km

3 Distance travelled by school bus = 29.87 km
in a day

Distance travelled by school bus for = x 25
25 days in a month

Ans = 746.75 km

14935
+ 5974 x
746.75

5 Length of rail track to be laid = 44.72 km
in 52 days

Length of rail track to be laid
every day = 52) 44.72 (0.86

Ans = 0.86 km

416
312
- 312
X

1

2

6 Distance drove by 5 friends = 971.65 Km

Distance drove by each friend = $5 \overline{) 971.65} 194.33$

Ans = 194.33 Km

$$\begin{array}{r} 5 \overline{) 971.65} \\ \underline{5} \\ 47 \\ \underline{45} \\ 220 \\ \underline{20} \\ 16 \\ \underline{15} \\ 15 \\ \underline{15} \\ 0 \end{array}$$

Weight

1 Weight of honey in 1 teaspoon = 14.425 g

Weight of honey in 25 teaspoon = $\times 25$
360.625

Ans = 360.625

2 Weight of ant = 5 mg

It can carry weight upto 20 times
its own weight

Weight can an ant can carry = 20

$$\begin{array}{r} 20 \\ \times 5 \\ \hline 100 \text{ mg} \end{array}$$

Ans = 100 mg

3 weight of a cube of sugar = 3.7 g

weight of 80 such cubes = 2960

Ans = 2.96 g

2960
2960

Capacity

(1) litres of water used by showers = 93.56 l

Reduced litres of water by using buckets = 17.78 l

litre of water used by taking baths in buckets = 75.78 l

Ans = 75.78 l

(2) litre of water in 1st geyser = 25.75 l

litre of water in 2nd geyser = 15.35 l

litre of water warmed using both geysers = 41.10 l

Ans = 41.10 l

(3) Quantity of disinfectant in bottle = 125.50 ml

Everyday she takes out = 25 ml

No. of days it will last = $25 \overline{) 125.50} (5.02$
125

Ans = 5.02
= 5 days

H.W

(1) Length of freight train = 1.373 Km

Length of BHP train = 7.324 Km

7.324 Km
- 1.373 Km
5.951 Km

BHP train is longer than freight train

(4) Length of cable = 24.465

Length of cable laid = $\times 16$
in 16 months
146790
+ 244650
391440

Ans = 391.44

(4) ^{weight} Ms Ghosh used salt in a month = 364 g 21/11/19

weight of salt in 1 tablespoon

$$= 14 \overline{) 364} \begin{array}{l} 26 \\ - 28 \\ \hline \end{array}$$

$$- 28$$

$$\times 84$$

$$- 84$$

$$\underline{\underline{\times \times}}$$

Ans 2.6 g

(5) To make 42 sandwiches cheese = 571.2 g is used

to make one sandwiches cheese

used =

$$42 \overline{) 571.2} \begin{array}{l} 13.6 \\ - 42 \\ \hline \end{array}$$

$$- 42$$

$$151$$

Ans 13.6

$$- 126$$

$$\times 262$$

$$- 252$$

$$\underline{\underline{\times 10}}$$

Capacity

Q-3 Quantity of tea in each cup = 120.5 ml

People in a seminar =

$$\times 35$$

$$\underline{\underline{4217.5 \text{ ml}}}$$

Ans 4217.5 ml