



SHREE VASISHTHA VIDHYALAYA

Name : -Answer key

Std.: - IV ()

Roll No. :- _____

Worksheet-PA-2

Date :-

(Ch-08, Measurement and Ch-12, Visualising solid 3D shapes)

Q-1. Choose the correct option.

Q-2. Fill in the blanks.

1. The front view is called **Front elevation**
2. A **vertex** is a point or corner where two or more edges meet.
3. Three dimensional (3-D) shapes have a **length**, **breadth** and **height**.
4. A cone has **2** faces.
5. A cube has **6** faces, **12** edges and **8** vertices.
6. $5 \text{ km} = \underline{\text{5000}} \text{ m}$
7. $75 \text{ cm} + 125 \text{ cm} = \underline{\text{200}} \text{ cm} = \underline{\text{2}} \text{ m}$
8. If all sides of a cuboid become equal, it becomes a **cube**.
9. $2 \frac{1}{2} \text{ kg} = \underline{\text{2500}} \text{ g}$
10. $1 \text{ litre} = \underline{\text{1000}} \text{ millilitres (mL)}$.

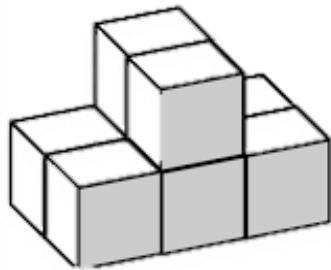
Q-3. True or False.

1. $1\text{ m} = 1000\text{ mm}$.	<u>TRUE</u>
2. 10 kg is bigger than 1 kg.	<u>TRUE</u>
3. Millilitres is used to measure liquids.	<u>TRUE</u>
4. All faces of a cube are rectangle.	<u>FALSE</u>
5. A cuboid has no edges.	<u>FALSE</u>
6. A cone has 2 vertices.	<u>FALSE</u>

Q-4. Match the following.

Column A	Column B	Answer
1. Cube or Cuboid	a) 2 km	1. f
2. $500\text{ mL} + 500\text{ mL}$	b) 2 circular faces	2. e
3. Cube	c) 1.5 kg	3. d
4. 2000 m	d) Equal length breadth and height	4. a
5. Cylinder	e) 1 litre	5. b
6. 1500 g	f) 12 edges	6. c

Q-5. Draw its top view, front and side view.



Top view	Front view	Side view

Q-6. Tick (✓) the best estimate.

(a) The weight of a pencil	8 g ✓	800 g	8 kg
(b) The weight of a bicycle	15 kg ✓	100 kg	15 g
(c) Length of train coach	25 mm	25 km	25 m ✓
(d) Length of a river	120 km ✓	120 m	120 mm
(e) Height of a door	2 m ✓	2 cm	2 mm
(f) The weight of your school bus	750 g	750 kg	7500 kg ✓
(g) The petrol tank of a car	60 mL	6 L	60 L ✓
(h) Amount of water in raindrop	1 mL ✓	1 L	10 L
(i) The amount of milk in a glass	24 L	240 mL ✓	240 L
(j) Water in bath tub	60 mL	6 L	500 L ✓

Q-7. Add:

i) 14 L 98 mL and 46 L 63 mL

Solution:

$$\begin{array}{r}
 1 \quad \quad \quad 11 \\
 14 \text{ L} \quad \quad 098 \text{ mL} \\
 + \quad 46 \text{ L} \quad \quad 063 \text{ mL} \\
 \hline
 60 \text{ L} \quad \quad 161 \text{ mL}
 \end{array}$$

ii) 45 kg 974 g and 97 kg 698 g

Solution:

$$\begin{array}{r}
 11 \quad \quad \quad 11 \\
 45 \text{ kg} \quad \quad 974 \text{ g} \\
 + \quad 97 \text{ kg} \quad \quad 698 \text{ g} \\
 \hline
 143 \text{ kg} \quad \quad 672 \text{ g}
 \end{array}$$

iii) 121 km 456 m 89 cm and 82 km 8 m 43 cm

Solution:

$$\begin{array}{r}
 1 \quad \quad \quad 11 \quad \quad 1 \\
 121 \text{ km} \quad 456 \text{ m} \quad 89 \text{ cm} \\
 + \quad 082 \text{ km} \quad 008 \text{ m} \quad 43 \text{ cm} \\
 \hline
 203 \text{ km} \quad 465 \text{ m} \quad 32 \text{ cm}
 \end{array}$$

iv) 89 m 23 cm, 120 m 99 cm 6 mm and 5 m 82 cm 9 mm

Solution:

$$\begin{array}{r}
 112 \quad \quad \quad 11 \\
 089 \text{ m} \quad \quad 23 \text{ cm} \quad \quad 0 \text{ mm} \\
 120 \text{ m} \quad \quad 99 \text{ cm} \quad \quad 6 \text{ mm} \\
 + \quad 005 \text{ m} \quad \quad 82 \text{ cm} \quad \quad 9 \text{ mm} \\
 \hline
 216 \text{ m} \quad \quad 05 \text{ cm} \quad \quad 5 \text{ mm}
 \end{array}$$

Q-8. Subtract:

i) 69 L 45 mL from 125 L 63 mL

Solution:

$$\begin{array}{r}
 11 \\
 0 \cancel{1} 5 \quad \quad \quad 5 \ 13 \\
 1 \cancel{2} \cancel{5} \text{ L} \quad \quad \quad 0 \cancel{6} \cancel{3} \text{ mL} \\
 - \quad 0 \ 6 \ 9 \text{ L} \quad \quad \quad 0 \ 4 \ 5 \text{ mL} \\
 \hline
 0 \ 5 \ 6 \text{ L} \quad \quad \quad 0 \ 1 \ 8 \text{ mL}
 \end{array}$$

ii) 45 kg 789 g from 519 kg 369 g

Solution:

$$\begin{array}{r}
 12 \\
 4 \ 11 \ 8 \quad \quad \quad 2 \ 16 \\
 \cancel{5} \cancel{1} \ 9 \text{ kg} \quad \quad \quad \cancel{3} \cancel{6} \ 9 \text{ g} \\
 - \quad 0 \ 4 \ 5 \text{ kg} \quad \quad \quad 7 \ 8 \ 9 \text{ g} \\
 \hline
 4 \ 1 \ 3 \text{ kg} \quad \quad \quad 5 \ 8 \ 0 \text{ g}
 \end{array}$$

iii) 60 m 42 cm 9 mm from 74 m 23 cm 3mm

Solution:

$$\begin{array}{r}
 3 \quad \quad \quad 12 \ 2 \quad \quad \quad 13 \\
 \cancel{7} \cancel{4} \text{ m} \quad \cancel{2} \cancel{3} \text{ cm} \quad \cancel{3} \text{ mm} \\
 - \quad 60 \text{ m} \quad \quad 4 \ 2 \text{ cm} \quad \quad 9 \text{ mm} \\
 \hline
 13 \quad \quad \quad 80 \quad \quad \quad 4
 \end{array}$$

iv) 369 km 46 m 89 cm from 892 km 8 m 43 cm

Solution:

$$\begin{array}{r}
 13 \\
 8 \ 11 \quad \quad \quad 10 \ 7 \quad \quad \quad 3 \ 13 \\
 \cancel{8} \cancel{9} \ 2 \text{ km} \quad \quad \quad \cancel{0} \cancel{8} \text{ m} \quad \quad \quad \cancel{4} \cancel{3} \text{ cm} \\
 - \quad 3 \ 6 \ 9 \text{ km} \quad \quad 4 \ 6 \text{ m} \quad \quad 8 \ 9 \text{ cm} \\
 \hline
 5 \ 2 \ 2 \text{ km} \quad \quad 6 \ 1 \text{ m} \quad \quad 5 \ 4 \text{ cm}
 \end{array}$$

Q-9. Word problems.

1. A contractor got a contract for construction of three roads. The length of the first road is 125 km 705 m, the second road is 189 km 90 m and the third road is 302 km 987 m. Find the total length of the three roads that he needs to construct.

Solution:	111	11
Length of the first road =	125 km	705 m
Length of the second road =	189 km	090 m
Length of the first road =	+ 302 km	987 m
Total length of three roads =	617 km	782 m

2. Rosa purchased 189 m 63 cm cloth for shirts, 78 m 85 cm for trousers and 32 m 79 cm for other purposes. How many metres of cloth did she purchase in all?

Solution:	222	1
Rosa purchased cloth for shirts =	189 m	63 cm
She purchased cloth for trousers =	078 m	85 cm
She purchased cloth for other purposes =	+ 032 m	79 cm
She purchased all cloths =	301 m	27 cm

3. Mrs Joshi has 56 kg of flour. She used 45 kg 412 g of flour to make paranthas to be distributed to the needy. How much flour has she left with?

Solution:	9	9
	5	10 10 10
Total weight of flour =	5 6 kg	0 0 0 g
Weight of used flour =	- 4 5 kg	4 1 2 g
Weight of left flour =	1 0 kg	5 8 8 g

4. Mukesh purchased a box containing 167 kg of apples. If 23 kg 789 g of apples were found spoiled and 84 kg 912 g were consumed in a party, how much apples were left?

Solution:

$$\text{Total weight of a apples box} = 167 \text{ kg}$$

Weight of spoiled apples	=	23 kg	789 g
Weight of apples consumed in a party	=	84 kg	912 g
		108 kg	701 g

$$\begin{aligned}\text{Weight of left apples in the box} &= 167 \text{ kg} - 108 \text{ kg } 701 \text{ g} \\ &= 58 \text{ kg } 299 \text{ g}\end{aligned}$$

5. A car has full tank of 137 L 89 mL of petrol. During journey it uses up 85 L 999 ml of petrol, how much petrol will be left in the tank?

Solution:

	L	mL
	9	
	0 1 3 6	10 18
Car has full tank of petrol =	137	089
Journey it uses up = -	085	999
Left petrol in the tank =	051	090

6. Amul bought 823 litres of milk in the morning, 35 litres 78 millilitres at noon and 452 litres 809 millilitres in the evening. How much milk did he buy during the whole day?

Solution:

	L	mL
	11	1
Amul bought milk in the morning	= 823	000
Amul bought milk al noon	= 035	078
Amul bought milk in the evening	= + 452	809
Total milk bought during the whole day =	<u>1310</u>	887