

MASS & CAPACITY

WORD PROBLEMS OF EXERCISE-11E

1. Deepak purchased 5 kg 270 g of potatoes and 2 kg 450 g of onion. How much weight of vegetables did he purchase?

Solution.

Quantity of potatoes purchased = 5 kg 270 g

Quantity of onions purchased = 2 kg 450 g

*Total quantity of vegetable purchased = 2 kg 750 g + 4 kg 900 g
= 7 kg 720 g*

5 kg	270 g
+ 2 kg	450 g
7 kg	720 g

7 kg 720 g of vegetable they bought altogether.

2. Kartik's doll weighs 2 kg 890 g and Manohar's doll weighs 3 kg 890 g. What is the weight of both the dolls?

Solution:

Weight of Kartik's doll = 2 kg 890 g

Weight of Manohar's doll = 3 kg 890 g

Weight of both the dolls = 2 kg 890 g + 3 kg 890 g

2 kg	890 g
+ 3 kg	890 g
5 kg	1780 g

Now, 5 kg 1780 g = 5 kg + 1,000 g + 780 g = 5 kg + 1 kg + 780 g = 6 kg 780 g

Hence, weight of both the dolls = 6 kg 780 g

3. A family consumed 18 kg 570 g of wheat and 15 kg 490 g of rice in a month. In all how much cereals did the family consume in that month?

Solution:

Weight of wheat consumed = 18 kg 570 g

Weight of rice consumed = 15 kg 490 g

Weight of the cereals = 18 kg 570 g + 15 kg 490 g

18 kg	570 g
+ 15 kg	490 g
33 kg	1060 g

Now, 33 kg 1060 g = 33 kg + 1,000 g + 60 g = 33 kg + 1 kg + 60 g = 34 kg 60 g

Hence, weight of cereals consumed by the family = 34 kg 60 g

4. The weight of a watermelon is 3 kg 425 g. The weight of a pineapple is 2 kg 530 g. By how much is the watermelon heavier?

Solution,

Weight of watermelon = 3 kg 425 g

Weight of pineapple = 2 kg 530 g

3 kg 425 g > 2 kg 530 g.

Weight of watermelon > Weight of pineapple

3 kg	425 g
- 2 kg	530 g
1 kg	895 g

Difference of the weights = 895 g

Hence, watermelon is heavier than pineapple by 895g

5. There were 8 kg 250 g of apples in a carton. 5 kg 825 g of apples were removed. What will be the weight of the apples left in the carton?

Solution,

Quantity of apples in the carton = 8 kg 250 g.

Quantity of apples removed = 5 kg 825 g

Quantity of apples left = 8 kg 250 g - 5 kg 825 g

8 kg	250 g
- 5 kg	825 g
3 kg	425 g

Hence, quantity of apples left = 2 kg 425 g

6. Sanjay bought 100 kg of wheat for his family for a month. Out of this, the quantity of wheat consumed was 76 kg 450 g. What quantity of wheat was left?

Solution,

Quantity of wheat bought = 100 kg 000 g

Quantity of wheat consumed = 76 kg 450 g

99	1000
100 kg	250 g
- 76 kg	450 g
23 kg	550 g

Hence, quantity of wheat left = 23 kg 550 g.

WORD PROBLEMS OF EXERCISE-11G

1. Shikha bought 2 l 750 ml milk and Sarika bought 4 l 900 ml milk. How much quantity of milk did they both buy together?

Solution,

Quantity of milk Shikha bought = 2 l 750 ml

Quantity of milk Sarika bought = 4 l 900 ml

*Total quantity of milk bought = 2 l 750 ml + 4 l 900 ml
= 7 l 650 ml*

7 l 650 ml of milk they bought altogether.

2. A bottle contains 6 l 450 ml of juice. Another bottle contains 5 l 875 ml of juice. Both are emptied into an empty vessel. How much juice would be there in the vessel?

Solution,

Quantity of juice the one bottle contains = 6 l 450 ml

18 l	570 ml
+ 15 l	490 ml
4 kg	1330 g

Quantity of milk juice another bottle contains = 5 l 875 ml

Total quantity of juice emptied in the vessel = 6 l 450 ml + 5 l 875 ml
= 12 l 325 ml

12 l 325 ml of juice would be there in the vessel.

3. Mr Gupta filled 21 l 730 ml of petrol in his car in the first week of August. In the last week of August he again filled 15 l 850 ml of petrol. How much petrol did he fill in his car in the two weeks?

Solution,

Quantity of petrol filled in the first week = 21 l 730 ml

Quantity of petrol filled in the last week = 15 l 850 ml

Total quantity of petrol filled in the two weeks = 21 l 730 ml + 15 l 850 ml
= 37 l 580 ml

37 l 580 ml of petrol Mr. Gupta filled in the car in the two weeks of August.

4. A bucket contained 40 l of water. 16 l 750 ml ml of water is taken out. How much water is left in the bucket?

Solution,

Quantity of water the bucket contained = 40 l

Quantity of water taken out = 16 l 750 ml

Total quantity of water left = 40 l 000 ml - 16 l 750 ml
= 23 l 250 ml

23 l 250 ml of water left in the bucket.

5. Urmila bought 6 l 250 ml of milk. Her friend Maya bought 4 l 725 ml of milk. How much more milk did Urmila buy?

Solution.

Quantity of milk Urmila bought = 6 l 250 ml

Quantity of milk Maya bought = 4 l 725 ml

$$6 \text{ l } 250 \text{ ml} > 4 \text{ l } 725 \text{ ml}$$

Urmila bought 1 l 525 ml more milk

Difference of quantities = 6 l 250 ml - 4 l 725 ml

$$= 1 \text{ l } 525 \text{ ml}$$

Urmila bought 1 l 525 ml more milk than Maya

6. A jar contains 30 l of juice. 6 l 875 ml of juice was taken away from it. What quantity of juice would be there in the jar?

Solution.

Quantity of juice the jar contained = 30 l

Quantity of juice taken away from the jar = 6 l 875 ml

Quantity of juice left in the jar = 30 l 000 ml - 6 l 875 ml

$$= 23 \text{ l } 125 \text{ ml}$$

23 l 125 ml of juice would be there in the jar.
