

# 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 wheat 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 famboth the dolls = 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   | 425 |
| kg  | g   |
| - 2 | 530 |
| kg  | g   |
| 0   | 895 |

*Difference of the weights = 895 g*

*Hence, watermelon is heavier than pineapplse 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   | 250 |
| kg  | g   |
| - 5 | 825 |
| kg  | g   |
| 2   | 425 |

*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             |
| <del>100</del> kg | <del>250</del> 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.*

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