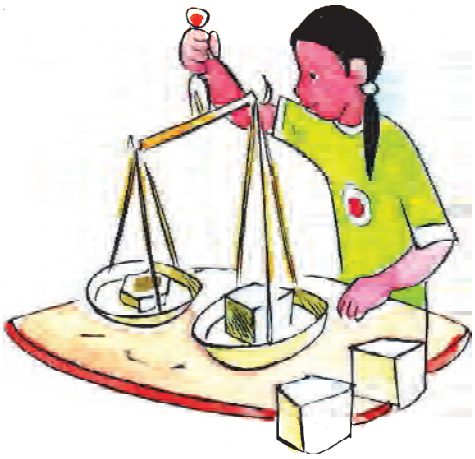
CHAPTER- 13

Weight



You know that -

1000 grams = 1 kilogram

500 grams = $\frac{1}{2}$ kilogram (half of a kilogram)

250 grams = $\frac{1}{4}$ kilogram (quarter of a kilogram)

Fill in the blanks :

2000 grams = ... kilograms

3700 grams = ... kilograms .....gram

4000 grams = ... kilograms

4500 grams = ... kilograms ..... gram

8000 grams = ... kilograms

Now convert 800 grams into kilogram.

Let us think over this-

$\because$ 1000 gram = 1 kilogram

$\therefore$ 1 gram = $\frac{1}{1000}$ kilogram = 0.001 kilogram

$\therefore$ 800 gram = $\frac{800}{1000}$ kilogram = 0.800 kilogram

Hence 800 gram = 0.800 kilogram

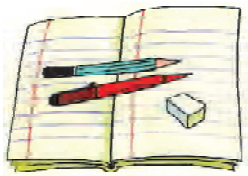
5 gram = $\frac{5}{1000}$ kg. = 0.005 kg.

50 gram = $\frac{50}{1000}$ kg. = 0.05 kg.

500 gram = $\frac{500}{1000}$ kg. = 0.5 kg.

735 gram = $\frac{735}{1000}$ kg. = 0.735 kg.

Fill in the blanks-



1. 750 gram = 0.750 kg.
2. 135 gram = ... kg.
3. 40 gram = ... kg.
4. 25 gram = ... kg.
5. 9 gram = ... kg.
6. 3 gram = ... kg.

Now let us see how we can convert a weight given in kilograms and grams to kilogram.

Example : 12 kg. 25 grams is how much kilograms?

Solution : To change 12 kg. 25 grams to kilogram, we need to change 25 grams in kg.

12 kg. 25 grams = 12 kg. + 25 gm.

= 12 kg. + $\frac{25}{1000}$ kg.

= 12 kg. + 0.025 kg.

= 12.025 kg.

Hence 12 kg. 25 gm = 12.025 kg.

Exercise

Change the given weights to grams :

1. 5 kilograms
2. 9 kilograms
3. 15 kilograms 600 grams
4. 11 kilograms 50 grams
5. 28 kilograms 5 grams

Change the following weights to kilograms :

6. 7850 grams
7. 1050 grams
8. 10 kilograms 225 grams
9. 17 kilograms 80 grams
10. 20 kilograms 5 grams

Solve these :

11. Add 3.720 kg. and 1.350 kg.
12. Subtract 7.925 kg. from 14.670 kg.
13. Multiply 18.980 kg. by 10
14. Divide 18.980 kg. by 10

Example 2 : If one box can hold 2.325 kg. of dal, how many kilograms of dal could you store in 5 such boxes.

Solution :

2.325 kg.

$\times \quad 5$

$11.625\ \text{kg}$

Because 2.325 kg. = 2 kg. 325 gm.

2 kg. 325 gm.

$\times \qquad 5$

$10\text{kg.} \quad 1625\text{gm}$

Here 10 kg. + 1625 gms

= 10 kg. + 1000 gm. + 625 gm.

= 10 kg. + 1 kg. + 0.625 kg.

= 11.625 kg.

Example 3 : How many sacks each of 15 kg. capacity can be filled if there is 75 kg. of rice?

Solution : If 15 kg. rice is filled in 1 sack

Then 1 kg. of rice is filled in $\frac{1}{15}$th sack

$\therefore$ 75 kg. of rice will need = $\frac{1}{15} \times 75$ sacks

= 5 sacks

Hence 75 kg. of rice can be filled in 5 sacks.

Statement Sums

1. Ramu bought 1 kg. tomatoes, 2 kg. potatoes and 250 gram chillies from the market. So what is the total weight of these vegetables?
2. If Nilu weighs 20.600 kg., Sanjay weighs 22.800 kg. and Kundan weighs 25 kg. What is the weight of all of them together?
3. A shopkeeper bought 100 kg. sugar and carried it to his village. Due to a small hole in the sack, some of the sugar fell on the way. He reached his shop and weighed the sugar and found its weight 90.700 kg.. How much sugar was lost from his sack?
4. Ramesh bought a cabbage and a pumpkin from the market. The cabbage weighed 750 gram and the pumpkin 3.700 kg.. So by how many kgs. is the pumpkin heavier than the cabbage?
5. In the school 100 gram of rice is cooked for a child. So how many kgs. of rice has to be cooked for 75 students?
6. One sweet box contains 0.450 kg. of sweets, how many kgs. of sweet would be there in 10 such boxes ?
7. One shopkeeper has 60 kg. of sugar. He divides this equally into 15 packets. So how many kgs. of sugar is packed in each packet?
8. How many packets of 250 gm. each can be made from 5 kg. of spices.
9. Ramlal had 235 kg. of rice. He sold 75 kg. on the first day, 85 kg. on the second day and 52 kg. on the third day. How many kgs. of rice is still left with him?
10. Manoj bought 6 bags each with 500 gm. of sugar. How many packets of 200 gm. each can you make from this quantity of sugar?