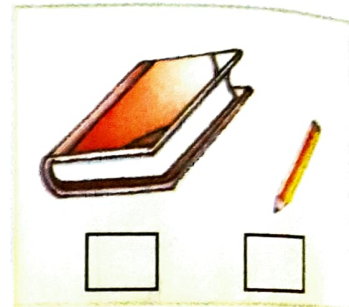
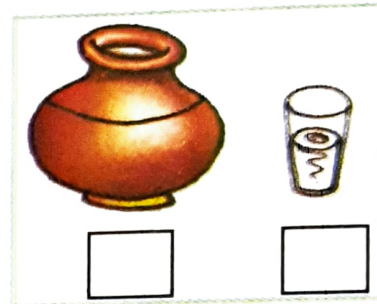
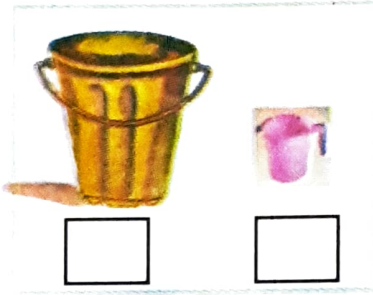




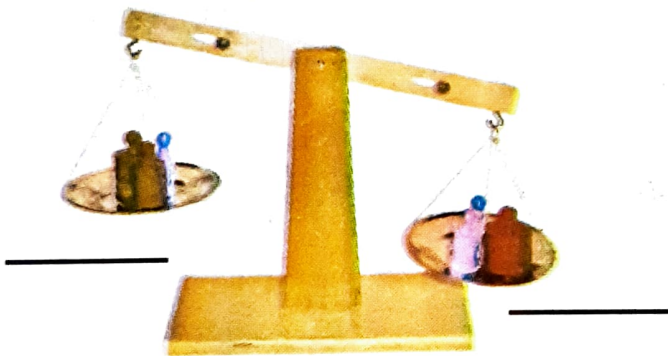
# How much Heavy?



Pairs of different objects are given below. Which one is heavier? Tick ☒ the heavier



Which is lighter, which is heavier? Write –



➤ Write the weight and cost of the items given below-

| Items               | weight | cost (rupees) |
|---------------------|--------|---------------|
| A packet of biscuit | .....  | .....         |
| A packet of salt    | .....  | .....         |

Let's weight the packet of the biscuit and salt, and see-

- Put the packet of biscuit /slat on one side of the balance.
- Put the weight on other side in such a manner that the pan became equal.

Think, why do we manage to stabilize the pointer of the balance in the middle.

Now you tell, after being measured by you-

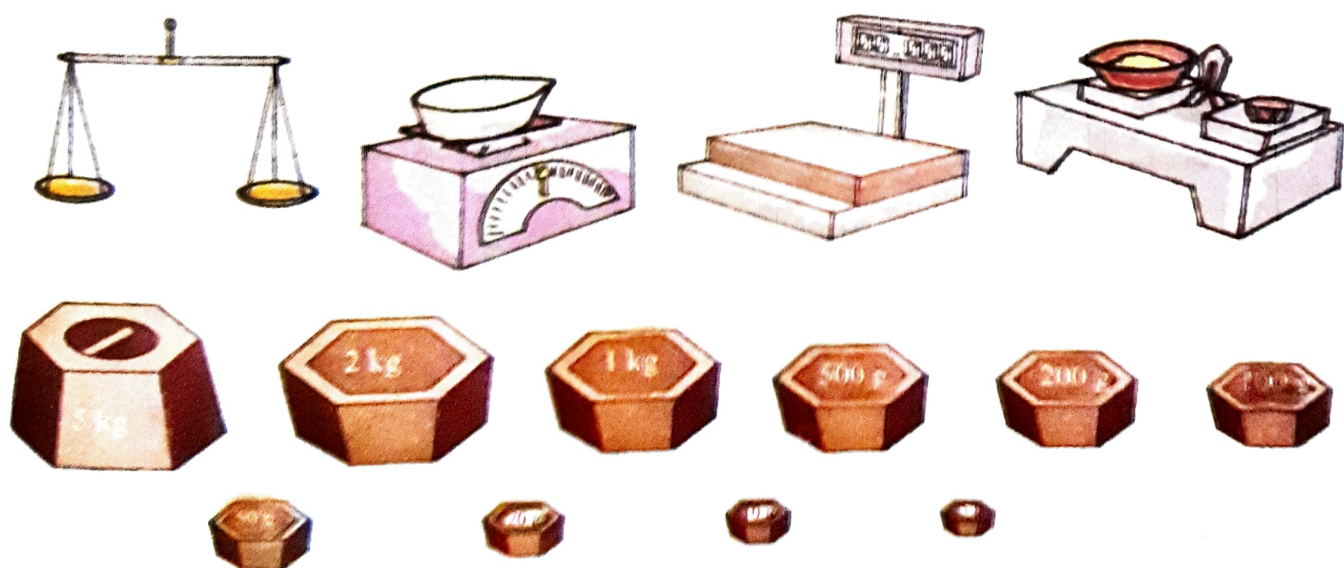
weight of the packet of salt .....

weight of the packet of biscuit .....

## Balance and Weight

You must have visited vegetable shop, grocery shop and sweet shop. You must have seen different types of balance and weights.

Look at the picture. Tick ( ✓ ) balance and weights which you have seen-



Madhav had to buy 5 kilograms of wheat. As soon as shopkeeper began to measure the wheat with balance, Madhav spoke quickly, “what is this?” you have put weights of different size. The shopkeeper said, “look, you need 5 kilograms of wheat. I have put all the weights that are needed.”



➤ Can you tell which weights did he put?

A stranger came at the same time. Madhav told his problem to the stranger too. The stranger put out all the weights from the balance. Then he explained to Madhav. The stranger added grams first –

$$\begin{aligned}
 100 \text{ gram} + 200 \text{ gram} + 200 \text{ gram} + 500 \text{ gram} &= 1000 \text{ gram} \\
 &= 1 \text{ kilogram} \\
 2 \text{ kilogram} + 2 \text{ kilogram} &= 4 \text{ kilogram} \\
 \text{Total weight} &= 5 \text{ kilogram}
 \end{aligned}$$

➤ How can you weigh 5 kilogram of wheat by using different weights? Write –

.....

### The stranger explained

➤ The stranger put first, two weights of 500 grams each on one side and 1 kilogram weight on another side of the balance.

Madhav watched that both the pans are equal

$$\begin{aligned}
 500 \text{ gram} + 500 \text{ gram} &= 1000 \text{ gram} \\
 &= 1 \text{ kilogram}
 \end{aligned}$$



Then he put 5 weights of 200 gram each on one pan and weight of 1 kilogram on other pan “Now both the pans are equal.”

$$\begin{aligned} 200 \text{ gram} + 200 \text{ gram} + 200 \text{ gram} + 200 \text{ gram} + 200 \text{ gram} \\ = 1000 \text{ gram or } 1 \text{ kilogram} \end{aligned}$$

The stranger put 5 weight of 1 kilogram on a pan and weight of 5 kilogram on other pan. He saw both the pans are equal.

$$1 \text{ kilogram} + 1 \text{ kilogram} + 1 \text{ kilogram} + 1 \text{ kilogram} + 1 \text{ kilogram} = 5 \text{ kilogram}$$

Let us see-

➤ How many grams are there in 5 kilogram 750 gram?

$$\begin{aligned} &= 5 \text{ kilogram} + 750 \text{ gram} \\ &= 5 \times 1000 \text{ gram} + 750 \text{ gram} \\ &= 5000 \text{ gram} + 750 \text{ gram} \\ &= 5750 \text{ gram} \end{aligned}$$

➤ How many kilogram and grams are there in 2650 gram?

$$\begin{aligned} 2650 \text{ gram} &= 2000 \text{ gram} + 650 \text{ gram} \\ &= 2 \text{ kilogram} + 650 \text{ gram} \\ &= 2 \text{ kilogram } 650 \text{ gram} \end{aligned}$$

Now you tell –

- How many kilogram and grams are there in 3700 gram? .....
- How many grams are there in 6 kilogram and 500 gram? .....



## Add

How will you add 400 gram and 300 gram ?

$$\begin{array}{r} \text{Look -} \quad 400 \text{ gram} \\ + 300 \text{ gram} \\ \hline 700 \text{ gram} \end{array}$$

Now you tell –

The stranger bought 5 kilogram of pulses and 2 kilogram of sugar.

How many kg of items did he buy? .....

## Subtraction

How will you subtract 250 gram from 750 gram?

$$\begin{array}{r} \text{Look -} \quad 750 \text{ gram} \\ - 250 \text{ gram} \\ \hline 500 \text{ gram} \end{array}$$

You also do –

Subtract 12 kilogram from 18 kilogram .....



### We have Learnt



- 1 kilogram = 1000 gram
  - 1000 gram = 1 kilogram
  - Kilogram is written as kg and gram is written as g.
- 
- Develop concept that addition and subtraction of kilogram, gram are solved like simple addition and subtraction.

## Exercise



1. Fill in the blank –

$$250 \text{ g} + 250 \text{ g} = \text{----- g}$$

$$500 \text{ g} + 250 \text{ g} = \text{----- g}$$

$$600 \text{ g} - 350 \text{ g} = \text{----- g}$$

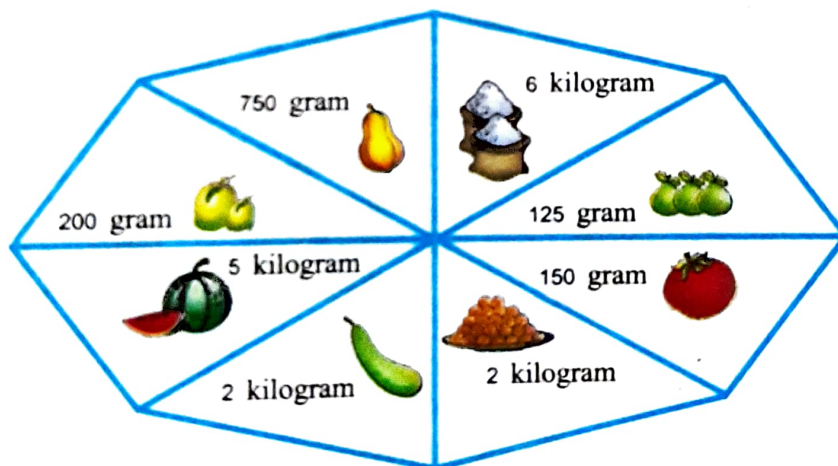
$$200 \text{ kg} - 85 \text{ kg} = \text{----- kg}$$

2. Let us do it –

|                                                                           |                                                                             |                                                                            |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|
| $\begin{array}{r} 700 \text{ g} \\ + 200 \text{ g} \\ \hline \end{array}$ | $\begin{array}{r} 240 \text{ kg} \\ + 145 \text{ kg} \\ \hline \end{array}$ | $\begin{array}{r} 147 \text{ kg} \\ + 42 \text{ kg} \\ \hline \end{array}$ |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|

3. Meena bought 850 g of sweets. She gave 250 g of sweets to Deepak. How much sweets were left with her?

4. See and write in your notebook-



- What will be the total weight of mango and papaya?
- What is the total weight of pear and tomato?
- What is the total weight of bottle gourd and water melon?
- How many kilograms do laddus weigh less than sugar?