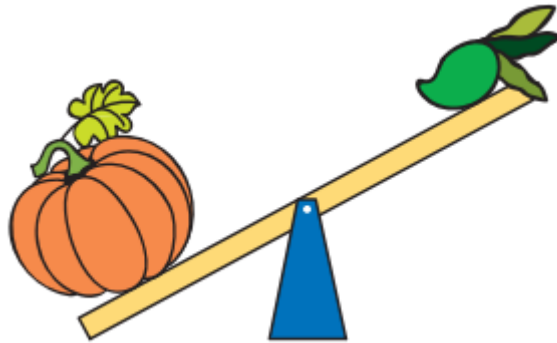


M306	Weighs objects using standard units– grams and kilograms using simple balance
------	---

LEVEL-1

Test item-1: 4 more such mangoes will balance the weighing balance.



The pumpkin is as heavy as _____ mangoes.

Option A: 5

Option B: 4

Option C: 1

Option D: 2

Correct Option: A

Hints/ Solution :

1 mango is there in the balance and adding 4 more will balance the scale.

So, 1 pumpkin = 5 mangoes.

Test item-2: You bought a bucket of 3 apples and the weight tag just showed 600.



In which unit of weight is 600?

Option A: gram

Option B: milligram

Option C: kg

Option D: centigram

Correct Option: A

Hints/ Solution :

Student must have an idea of how much these units represents.

Test item-3: Which of the following will weight around 1kg?



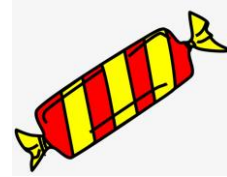
Brick



Pencil



spacks



Candy

Option A: Pencil

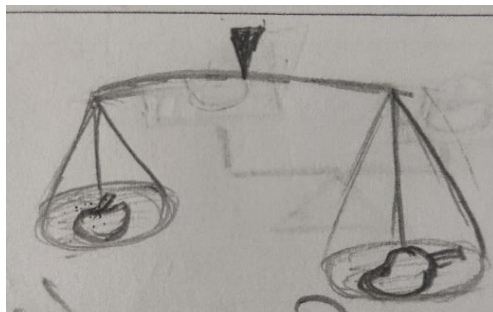
Option B: Brick

Option C: Spacks

Option D: Candy

Correct Option: B

Test item-4: Look at the weighing balance given below.



Select the correct statement.

Option A: weight of mango and apple is equal.

Option B: mango is heavier than apple.

Option C: apple is heavier than mango.

Option D: we cannot find weight of fruits.

Correct Option: B

Test item-5: Which of the following will weigh more than 1 kg?

Option A: Mobile

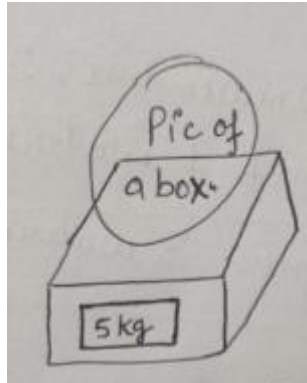
Option B: Big Pumpkin

Option C: Packet of 12 sketch pen

Option D: 2 Chapatis

Correct Option: B

Test item-6: Look at the Weighing balance?



What is the weight of the box?

Option A: 5 kg

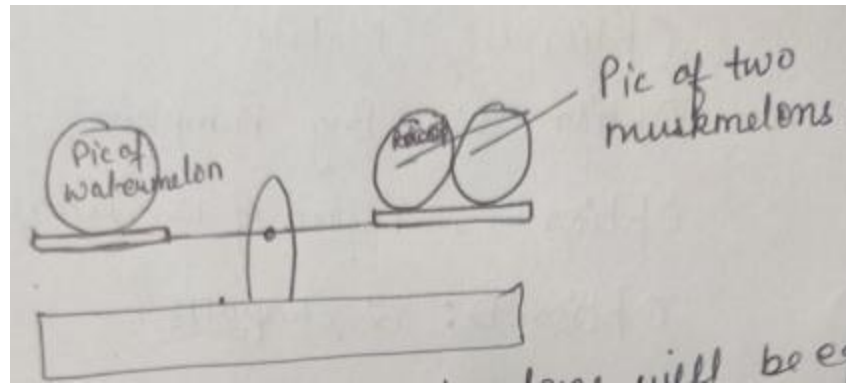
Option B: 6 kg

Option C: 2 kg

Option D: 5g

Correct Option: A

Test item-7: Look at the weighing balance shown below



Weight of how many muskmelons will be equal to 3 such watermelons?

Hints/ Solution :

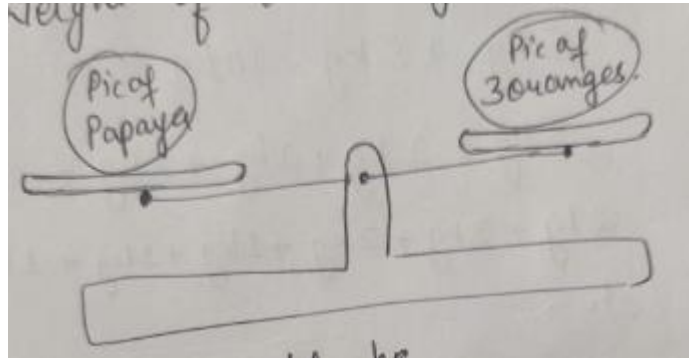
2 muskmelons = 1 watermelon

2 muskmelons + 2 muskmelons + 2 muskmelons

= 1 watermelon + 1 watermelon + 1 watermelon

6 muskmelons = 3 watermelons

Test item-8: Weight of the Papaya is 600 gms.



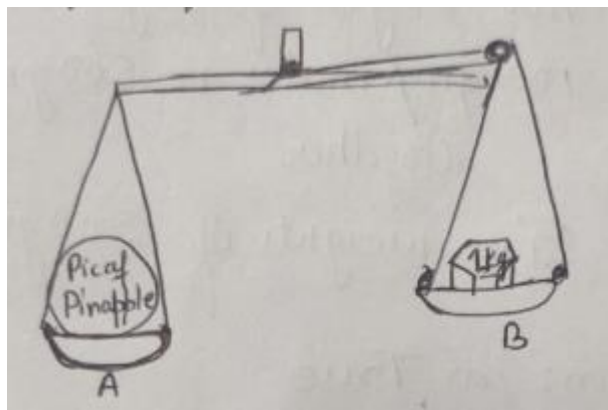
Fill in the blanks.

- (a) Weight of 3 oranges is _____ kg.
- (b) Weight of 1 orange is _____ kg.
- (c) Weight of 2 oranges is _____ kg.

Hints/ Solution :

- (a) 600 gm
- (b) 200 gm
- (c) 400 gm

Test item-9: What should be done to balance the pans?



- (a) Some weight should be added on PAN- B.
- (b) Some weight should be added on PAN- A.

Hints/ Solution :

- (a) Pan –A is lower than Pan- B. So, weight has to be put on PAN-B

Test item-10: Write True/ False.

- (a) Two weights of 500 gm each makes 1kg .
- (b) Two weights of 200 gm and 2 weight of 100 gm altogether makes 500 gm.
- (c) Five weights of 200 gm each makes 1 kg

Hints/ Solution :

- (a) True
- (b) False; $2 \times 200 \text{ gm} + 2 \times 100 \text{ gm} = 600 \text{ gm}$
- (c) True

LEVEL-2

Test item-1: You have 2 Kg groundnuts and 2 Kg Jaggery.

Select the correct statement.

Option A: The groundnuts are more in weight then the Gur/jaggary

Option B: The Gur (Jaggary) is more in weight then the ground nut

Option C: Both are equal in weight

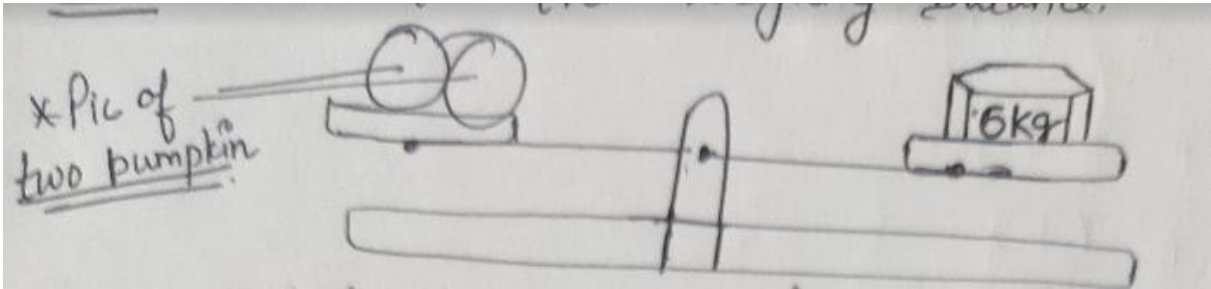
Option D: Jaggery is 2 kg in weight

Correction Option: C

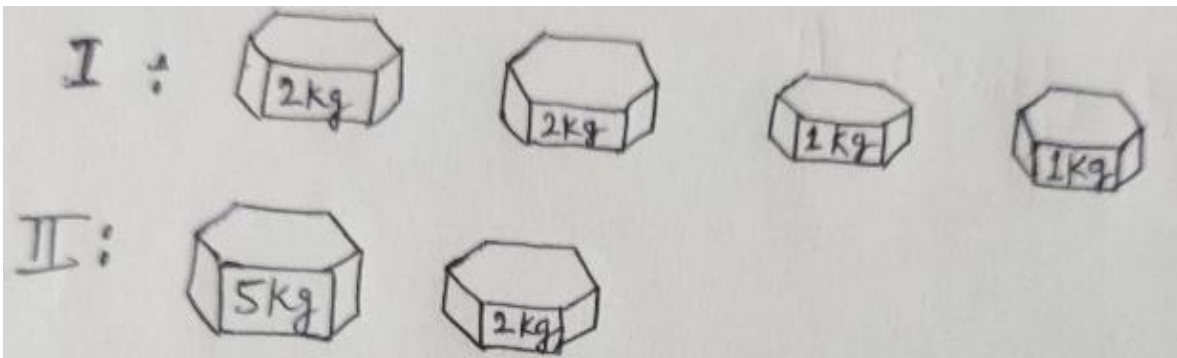
Hints/ Solution

Both items weights 2 kg.

Test item-2: Look at the weighing balance.



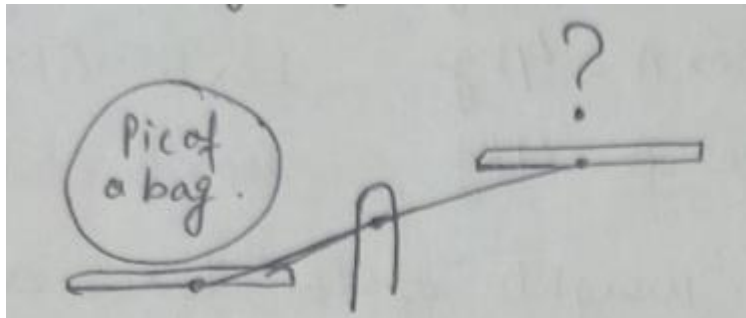
Which of the following combination of weight can be replace the weight of 6 kg in the balance?



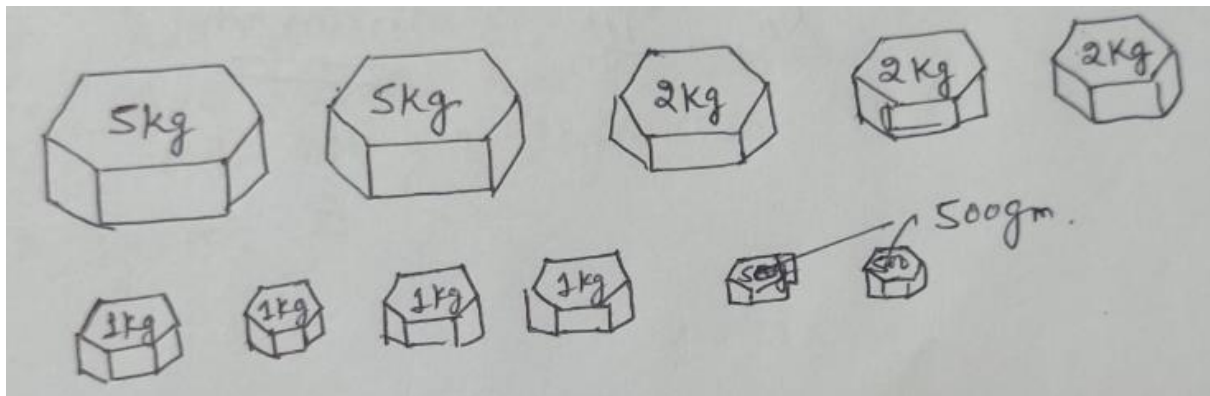
Hints/ Solution :

Combination I : $(2+2+1+1) \text{ kg} = 6\text{kg}$

Test item-3: Look at the weighing balance



If bag weighs 10 kg, circle the weights which can be used altogether to balance the pans.



Hints/ Solution:

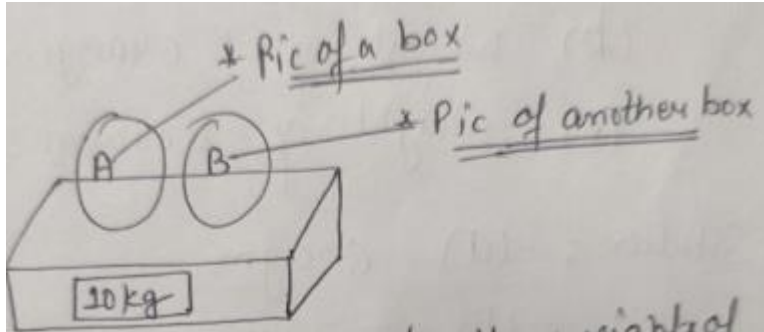
This question has more than 1 answer

(a) $5\text{kg} + 5\text{kg} = 10\text{kg}$

(b) $5\text{kg} + 2\text{kg} + 2\text{kg} + 1\text{kg} = 10\text{kg}$

(c) $2\text{kg} + 2\text{kg} + 2\text{kg} + 1\text{kg} + 1\text{kg} + 1\text{kg} + 1\text{kg} = 10\text{kg}$ etc.

Test item-4: Look at the weighing balance shown.



Which of the following is not correct for the weights of the boxes?

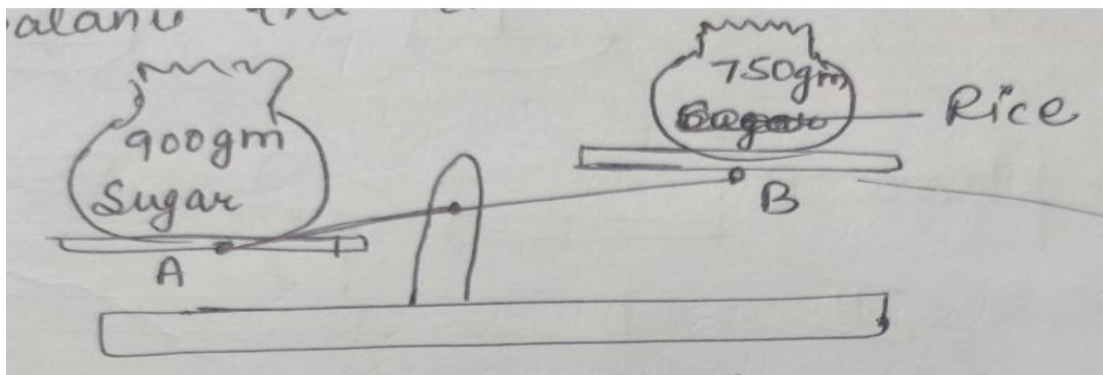
- I. Box A= 5kg Box B = 5 kg
- II. Box A = 4 kg Box B= 6 kg
- III Box A= 4kg Box B= 5kg

Hints/ Solution :

Exact weights of the boxes are not given individually, But in total they weight 10 kg altogether.

So, III is incorrect

Test item-5: Which of the following statement is correct to balance the PAN- A and PAN- B?



Option A: Add 150 gm sugar in PAN- A.

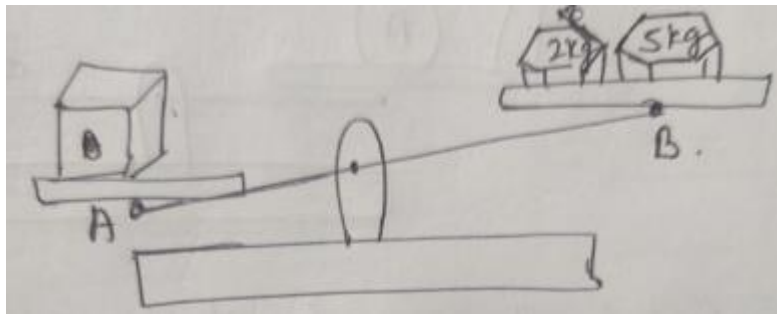
Option B: Add 150 gm Rice in Pan B

Option C: Add 200 gm Rice in Pan – B

Option D: Add 200 gm sugar in Pan- A.

Correct Option: B

Test item-6: Adding 3Kg in PAN-A will balance the PAN-A and PAN-B



Select the correct statement

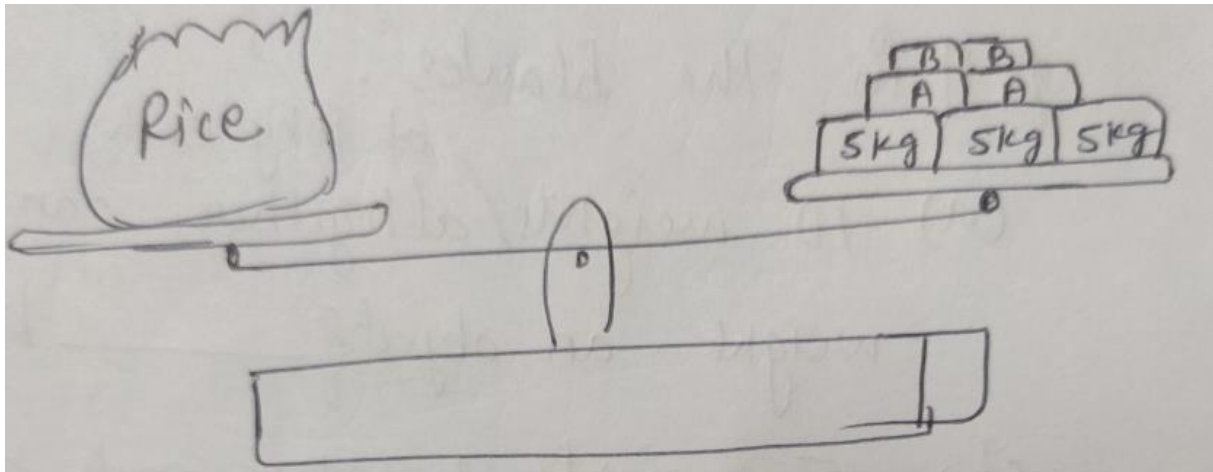
- I. Weight of the box is 3kg.
- II Weight of the box is 7kg.
- III Weight of the box is 4kg

Hints/ Solution :

Statement-III is correct.

Balanced PAN- A is equal to 7kg, where 3kg will be added. So, weight of box is 4kg.

Test item-7: A represents two same weights and B also two same weights.



Sack of Rice is 20 kg. Find value of A and B.

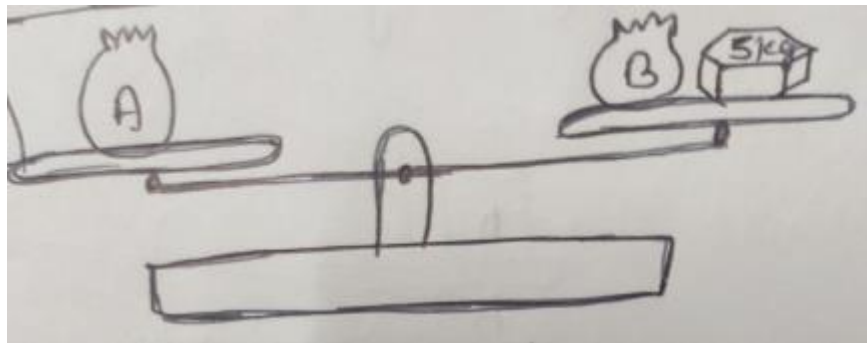
Hints/ Solution :

$$A = 2\text{kg} \quad B = 500\text{g}$$

$$A + A = 4\text{ kg} \quad B + B = 1\text{kg}$$

$$\text{So, } 15 + 4\text{ kg} + 1\text{kg} = 20\text{kg}$$

Test item-8: Look at the weighing balance shown below:



Select the Correct statement/s.

- I. Bag A is 5 kg lighter than Bag B.
- II. Weight of Bag B is equal to Bag A.
- III. Bag B is lighter than Bag A.

Hints/ Solution :

- I. False
- II. False
- III. True
- IV. True

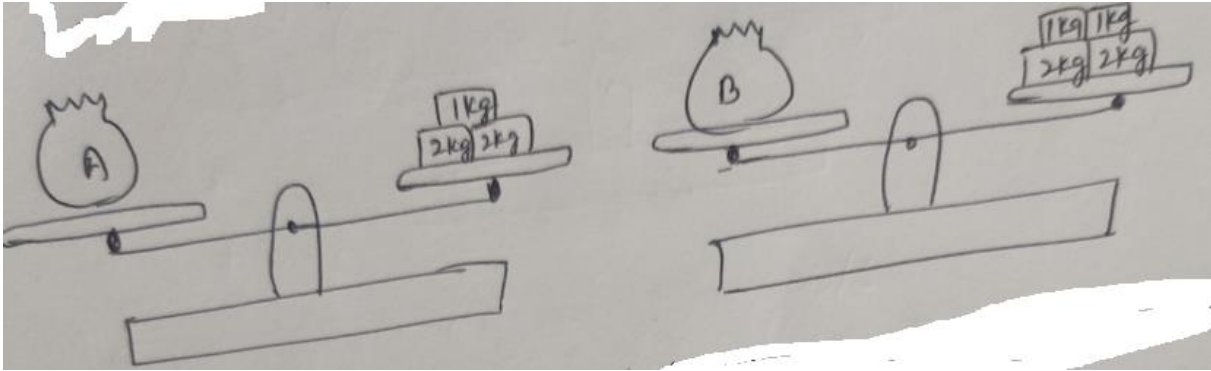
Test item-9: Fill in the blanks.

- (a) 10 weights of 10kg each altogether can be used to weight an object of _____ kg.
- (b) 5 weights of 5kg each altogether can be used to weight an object of _____ kg.
- (c) 3weights of 2kg each altogether can be used to weight an object of _____ kg.

Hints/ Solution :

- (a) 100 kg
- (b) 25 kg
- (c) 6kg

Test item-10: Look at the balances.



Fill in the blanks.

- (a) Weight of Bag A is _____ - kg.
- (b) Weight of Bag B is _____ kg.
- (c) Bag – A is _____ (heavier/ lighter) than Bag- B.
- (d) Weigh of Bag – A and Bag- B altogether is _____kg.

Hints/ Solution:

- (a) 5 kg
- (b) 6kg
- (c) Lighter