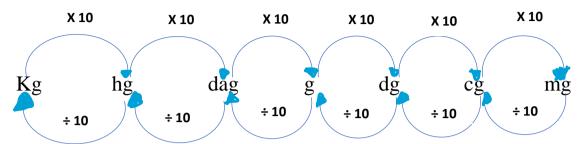
Mass

- (a) The amount of matter in an object is called mass.
- (b) The standard unit of mass is gram (g).
- (c) To change from higher unit to lower unit, we multiply each step by 10.



- (d) To change from lower to higher units, we divide each step by 10.
- (e) Kilogram, Hectogram and Decagram are higher units.
- (f) Decigram, Centigram and Milligram are lower units.

Important Relationships

1 kg = 1000 g
1 mg =
$$\frac{1}{1000}$$
 g = 0.001 g
1 hg = 100 g
1 cg = $\frac{1}{100}$ g = 0.01 g
1 dag = 10 g
1 dg = $\frac{1}{10}$ g = 0.1 g



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Fill in the blanks.

(a) 1 kilogram =
$$1000$$
 grams

(b) 1 gram =
$$1000$$
 milligrams

2. Ria bought 3.5 kg ladoos. The weight of ladoos in grams is ______.

Solution 2:-

3. Shilpa's weight is 8765 g. Her weight in kilograms is _____.

Solution 3:-

4. Express in kg, hg, dag and g.

(b)
$$0.513 \text{ kg} = \underline{\qquad} \text{kg} \underline{\qquad} \text{hg} \underline{\qquad} \text{g}$$

Solution 4:-

(a)
$$337.12 \text{ kg}$$

$$= 337 \text{ kg} + 0.1 \text{ kg} + 0.02 \text{ kg}$$

$$= 337 \text{ kg} + 0.1 \text{ klohg} + 0.02 \text{ kloodag} \quad \text{i. kg} = 10 \text{ hg}$$

$$= 337 \text{ kg} + 1 \text{ hg} + 2 \text{ dag}$$

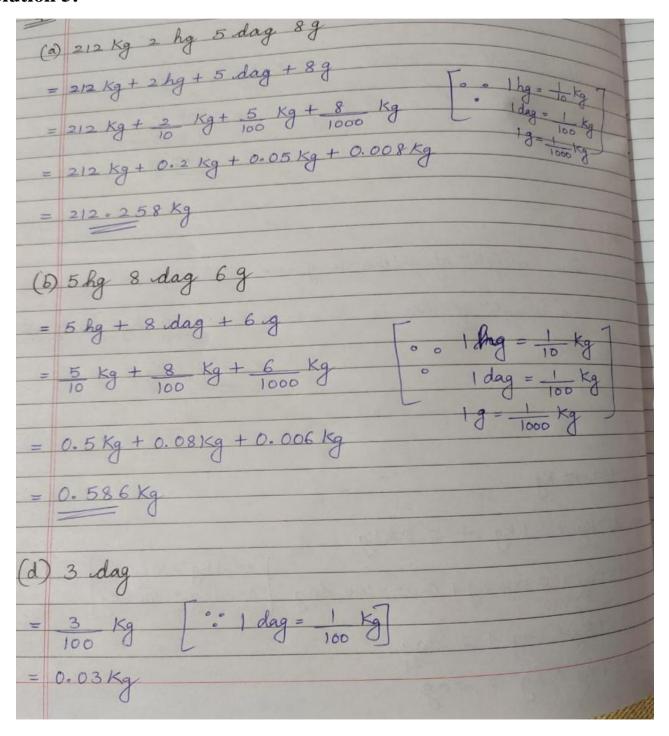
$$= 337 \text{ kg} + 1 \text{ hg} + 2 \text{ dag}$$

In Q4. (b) is homework.

5. Using decimal notation, express in kg.

- (a) 212 kg 2 hg 5 dag 8 g = kg
- (b) 5 hg 8 dag 6 g = ____ kg
- (c) 28 kg 7 g =
- $(d) \quad 3 \text{ dag} \qquad \qquad = \underline{\qquad} \text{ kg}$

Solution 5:-



In Q5. (c) is homework.