

Measurement of Mass

- **Weight** is measured in **Kilograms and grams**.
- Kilogram is the standard unit for measuring weight.

The short form of **grams** is 'g'

The short form of **kilogram** is 'kg'.

$$1 \text{ kg} = 1000 \text{ g} \quad \text{or}$$

$$1000 \text{ g} = 1 \text{ kg}$$

Exercise 1: Convert into grams (g) :-

Example: 4 kg 469 g = **4469 g**

$$1 \text{ kg} = 1000 \text{ g}$$

$$\Rightarrow 4 \times 1000 + 469$$

$$\Rightarrow 4000 + 469$$

$$\Rightarrow \textbf{4469 g}$$

a. 21 kg 540 g

b. 7 kg 65 g

Exercise 2: Convert into kilogram and gram:-

Example 1 : 4571 g = 4 kg 571 g.

$$1000 \text{ g} = 1 \text{ kg}$$

$$\Rightarrow 4571 \div 1000$$

$$\Rightarrow 4.571$$

$$\Rightarrow 4 \text{ kg } 571 \text{ g}$$

Example 2: 9000 g = 9 kg

$$1000 \text{ g} = 1 \text{ kg}$$

$$\Rightarrow 9000 \div 1000$$

$$\Rightarrow 9.000$$

$$\Rightarrow 9 \text{ kg}$$

a. 6290 g

b. 2000 g

Exercise 3 : Arrange and Add:

Example : 45 kg 369 g + 8 kg 284 g

kg			g		
	1		1	1	
	4	5	3	6	9
+		8	2	8	4
	5	3	6	5	3

a. $49\text{ kg } 125\text{ g} + 56\text{ kg } 270\text{ g}$

b. $31\text{ kg } 503\text{ g} + 37\text{ kg } 725\text{ g}$