



**Compare and  
convert metric  
units Of weight**



# Compare and convert metric units of weight

## Definition:

- **The Metric System** refers to a set of commonly used standard units of measurement
- The **kilogram**, which is abbreviated as "**kg**"
- The **gram**, which is abbreviated as "**g**"

## Customary units of weight:



Gram

❖ kilograms

❖ grams



kilogram

To convert from a **larger unit to a smaller unit**, we need to **multiply**

### Example

1 kilograms (Kg) = **1,000 grams (g)**

To convert from a **smaller unit to a larger unit**, we need to **divide**

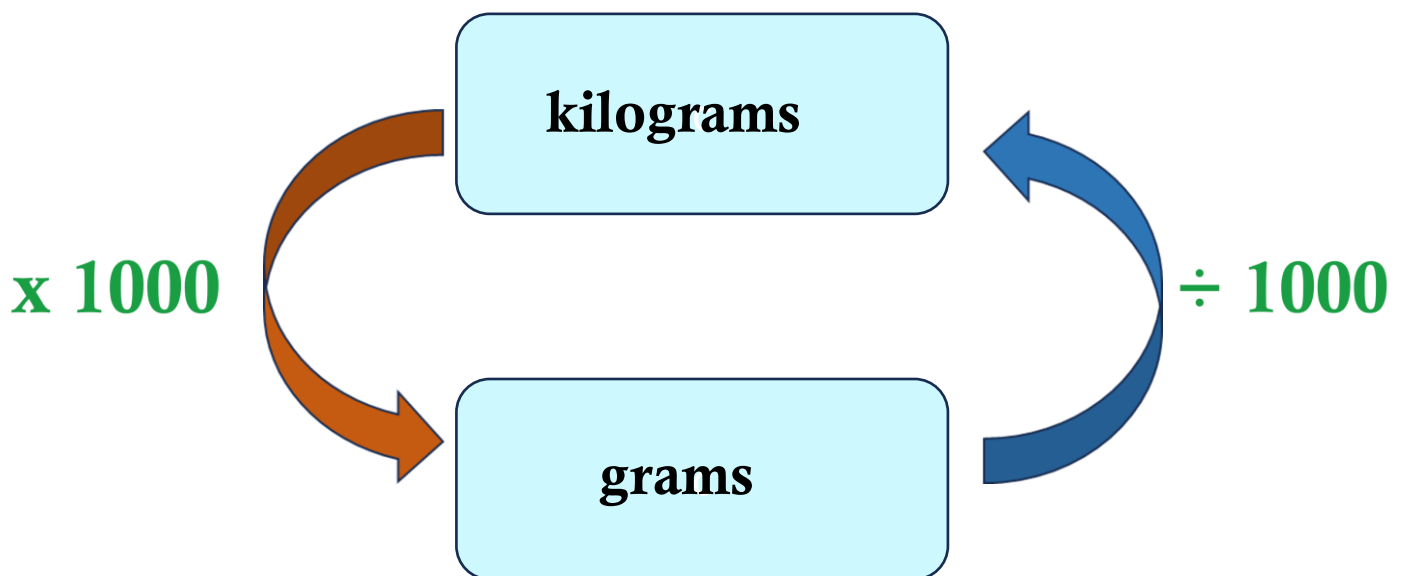
### Example

$$1 \text{ grams (g)} = 1 \div 1000 \text{ kilograms (kg)}$$



Gram

### Weight conversion:



### Example : 1

Convert 5 kilograms to grams.



5kilogram

#### Solution:

There are,

$$1 \text{ kilograms} = 1000\text{grams}$$

To convert kilograms to grams, you can multiply the number of 1000.

$$5 \times 1000 = 5000 \text{ grams.}$$

Therefore, **5,000 grams** in **5 kilograms**.

### Example : 2

Convert 25 kilograms to grams.



#### Solution:

There are,

$$1 \text{ kilograms} = 1000\text{grams}$$

To convert kilograms to grams, you can multiply the number of 1000.

$$25 \times 1000 = 25000 \text{ grams.}$$

Therefore, **25,000 grams** in **25 kilograms**.

### Example : 3

Convert 80,000 grams to kilograms.



#### Solution:

There are,

$$1 \text{ grams} = 1 \div 1000 \text{ kilograms}$$

To convert grams to kilograms, you can divide the number of 1000.

$$80,000 \div 1000 = 80 \text{ kilograms.}$$

Therefore, 80 kilograms in 80,000 grams .

### Example : 4

Convert 300,000 grams to kilograms.

#### Solution:

There are,

$$1 \text{ grams} = 1 \div 1000 \text{ kilograms}$$



To convert grams to kilograms , you can multiply the number of 1000.

$$300,000 \div 1000 = 300 \text{ kilograms.}$$

Therefore, 300 kilograms in 300,000 grams .