



**Compare and
convert metric
units of weight**



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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**

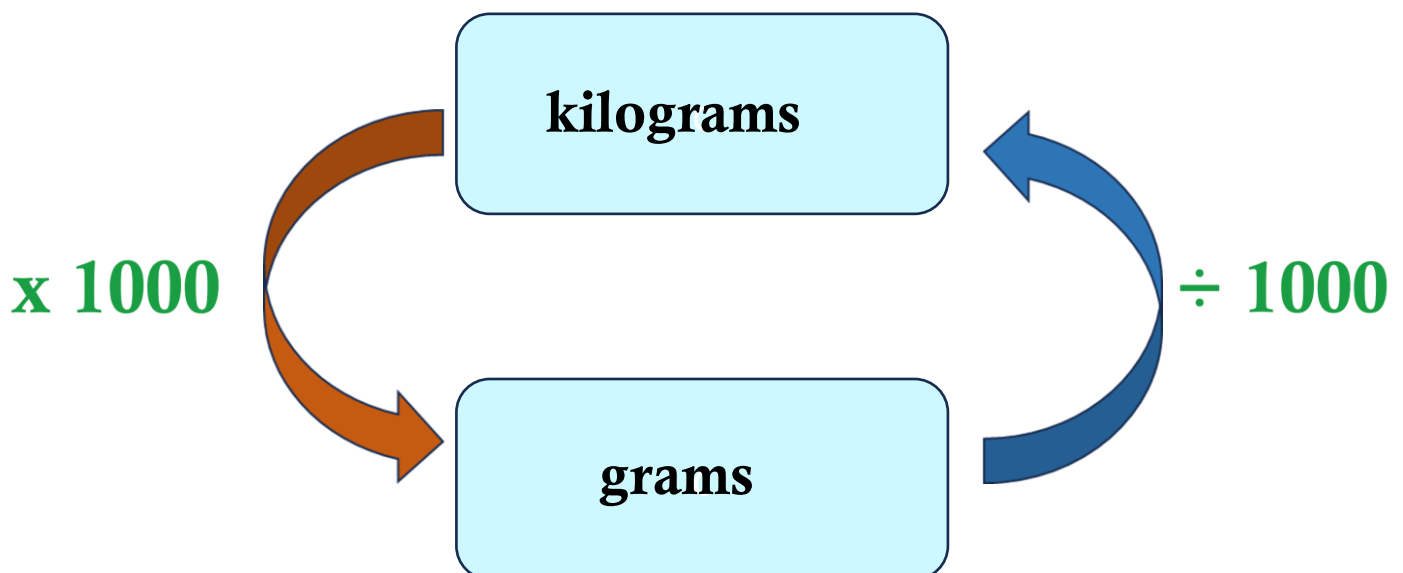
Example

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



Gram

Weight conversion:



Example : 1

Convert 5 kilograms to grams.



5kilogram

Solution:

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

To convert kilograms to grams, you have multiply the number with 1000.

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

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

Example : 2

Convert 25 kilograms to grams.



Solution:

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

To convert kilograms to grams, you have to multiply the number with 1000.

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

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



Example : 3

Convert 80,000 grams to kilograms.



Solution:

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

To convert grams to kilograms, you have to **divide the number by 1000**.

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

Therefore, **80 kilograms** in **80,000 grams** .

Example : 4

Convert 300,000 grams to kilograms.

Solution:

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



To convert grams to kilograms , you have to **multiply the number with 1000**.

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

Therefore, **300 kilograms** in **300,000 grams** .