



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**"



kilogram



Gram

Metric units of weight

✓ **Kilogram**

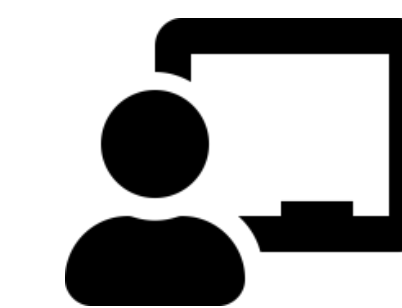
✓ **gram**



Gram



kilogram



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

Example

$$1 \text{ Kilogram (Kg)} = 1,000 \text{ gram (g)}$$



Gram



kilogram

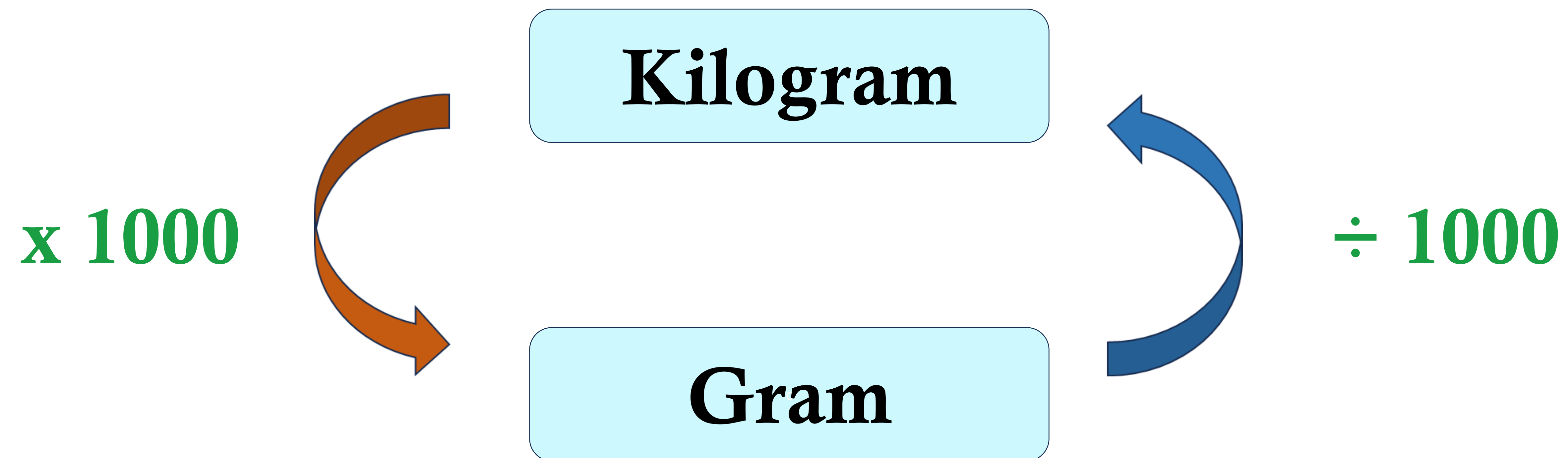
To convert from a **smaller unit to a larger unit**, we need to **divide**

Example

$$1 \text{ gram (g)} = 1 \div 1000 \text{ Kilogram (kg)}$$

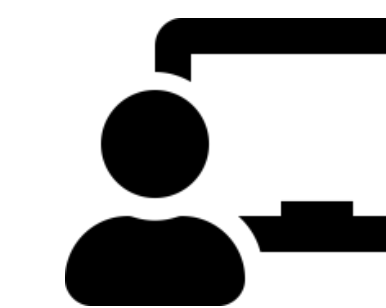


Weight Conversion





Example: 1



Convert 5 Kilograms to grams.



5kilogram

Solution:

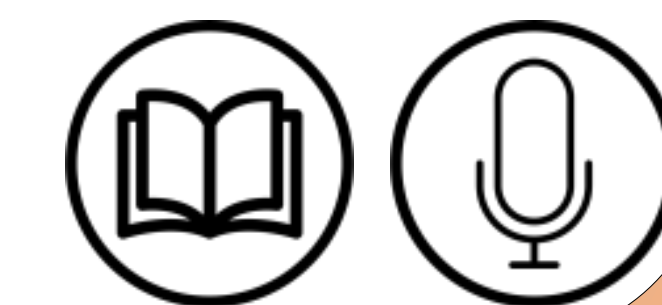
There are

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

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

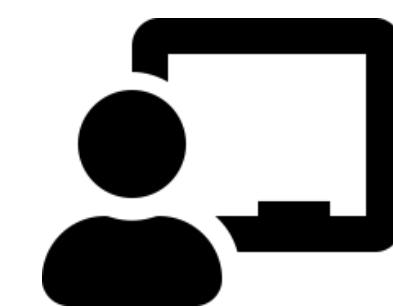
$$5 \times 1000 = 5000 \text{ grams.}$$

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





Example: 2



Convert 25 Kilograms to grams.



Solution:

There are

1 kilogram = 1000 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:

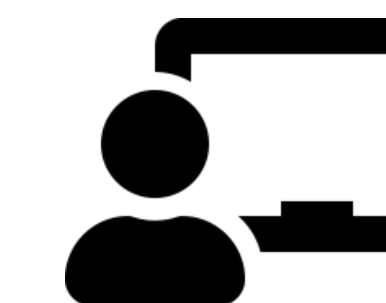
There are

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

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

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

Therefore, 300 kilograms in 300,000 grams.





Example: 5

Convert 5200 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.

$$5200 \div 1000 = 5.2 \text{ Kilograms.}$$

Therefore, **5.2 kilograms** in **5200 grams**.

