

Converting between metric units of weight

Converting between metric units involves multiplying or dividing by 10, 100 or 1,000.

Example 1: kg to g

A box weighs 1.25 kg. How many grams is that?

You're going from a larger unit (**kg**) to a smaller one (**g**).

The number of grams will be **more than** the number of kg. So it will be a multiplication calculation.

One kilogram is the same as 1,000 grams. So you need to **multiply** by 1,000.

$$1.25 \times 1,000 = 1,250$$

So the box weighs 1,250 grams.

$$1,000 \text{ mg} = 1 \text{ g}$$

$$1,000 \text{ g} = 1 \text{ kg}$$

Example 2: mg to g

What's 2,500 mg in g?

You're going from a smaller unit (**mg**) to a larger one (**g**).

The number of grams will be **less than** the number of mg. So it will be a division calculation.

One gram is the same as 1,000 milligrams. So you need to **divide** by 1,000.

$$2,500 \div 1,000 = 2.5$$

So 2,500 mg is equal to 2.5 g