



## Conversion of Weight

### Conversion of Kilograms Into Grams and Grams into Kilograms

When we measure weight, we often need to switch between kilograms (kg) and grams (g). Knowing how to convert between these units helps us compare and combine different weights more easily.

### Why Learn Conversion of Kilograms and Grams?

- It makes it easier to solve real-world problems.
- It helps in comparing objects with different units of weight.
- It builds the foundation for understanding larger and smaller units of measurement.

### Key Points to Remember:

- 1 kilogram (kg) = 1000 grams (g)
- To convert kilograms to grams, multiply by 1000.
- To convert grams to kilograms, divide by 1000.

### Examples with Solutions:

#### Example: Converting Kilograms to Grams

➤ How many grams are there in 2 kilograms?

✓  $1 \text{ kg} = 1000 \text{ g}$ .

✓  $2 \times 1000 = 2000 \text{ g}$ .

**Answer:** 2000 g.

#### Example: Converting Grams to Kilograms

➤ Convert 2500 grams into kilograms.

✓  $1 \text{ kg} = 1000 \text{ g}$ .

✓  $2500 \div 1000 = 2.5 \text{ kg}$ .

**Answer:** 2.5 kg.

#### Example: Adding and Converting



➤ **A bag of sugar weighs 3 kg and a packet of flour weighs 750 g. What is their total weight in grams?**

✓  $3 \text{ kg} = 3000 \text{ g}$ .

✓  $\text{Total weight} = 3000 \text{ g} + 750 \text{ g} = 3750 \text{ g}$ .

**Answer:** 3750 g.

### Example: Subtracting and Converting

➤ **A watermelon weighs 5000 grams. If you cut off a piece weighing 2 kg, how much is left in kilograms?**

✓ Convert 2 kg to grams:  $2 \text{ kg} = 2000 \text{ g}$ .

✓ **Subtract:**  $5000 \text{ g} - 2000 \text{ g} = 3000 \text{ g}$ .

✓ Convert back to kilograms:  $3000 \div 1000 = 3 \text{ kg}$ .

**Answer:** 3 kg.

### Example: Combining Kilograms and Grams

➤ **A sack of potatoes weighs 4 kg 250 g. Convert this weight into grams.**

✓  $4 \text{ kg} = 4000 \text{ g}$ .

✓ **Add:**  $4000 \text{ g} + 250 \text{ g} = 4250 \text{ g}$ .

**Answer:** 4250 g.

### Summary Point:

- $1 \text{ kg} = 1000 \text{ g}$ .
- To convert kg to g, multiply by 1000.
- To convert g to kg, divide by 1000.
- Conversions help us add, subtract, and compare weights easily.