

Metric Units of Weight

In the metric system, each unit is 10 of the smaller unit. For example, 1 dekagram is 10 grams. But dekagrams and hectograms are not commonly used. We only use kilograms and grams.

You just need to remember that **1 kg = 1,000 g**. The word “kilo” actually means a thousand!

10	kilogram	kg	for heavy things
10	hectogram	hg	(not used)
10	dekagram	dkg	(not used much)
10	gram	g	for light things

1. Choose the right weight for each thing.

a. a 10-year old boy 1 kg 30 g 30 kg	b. a cat 2 kg 200 g 2,000 g	c. an apple 1 kg 100 g 1 g
d. a table 2 kg 200 g 20 kg	e. a pencil 5 g 5 kg 500 g	f. an adult woman 50 kg 200 kg 5 kg

2. One kilogram is thousand grams. Fill in the table.

kilograms	1/2	2	3	3 1/2	5	10	12
grams							

kilograms							
grams	500	1,000	4,000	4,500	6,000	10,000	40,000

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

To change 3 kg into grams, multiply by 1,000: $3 \times 1,000 \text{ g} = 3,000 \text{ g}$

To change 5 kg 50 g into grams, first convert the 5 kg into grams: $5 \times 1,000 \text{ g} = 5,000 \text{ g}$.

Then, add the 50 grams: $5,000 \text{ g} + 50 \text{ g} = 5,050 \text{ g}$.

3. Convert to grams.

a. 2 kg = _____ g	b. 1 kg 600 g = _____ g	c. 8 kg 600 g = _____ g
3 kg = _____ g	8 kg 80 g = _____ g	5 kg 8 g = _____ g
4 kg = _____ g	2 kg 450 g = _____ g	7 kg 41 g = _____ g