

# Metric units of measuring weight

(subtraction and conversion without regrouping)



## Example: 1

Subtract 24 kilograms and 13 kilograms.

**Solution:**

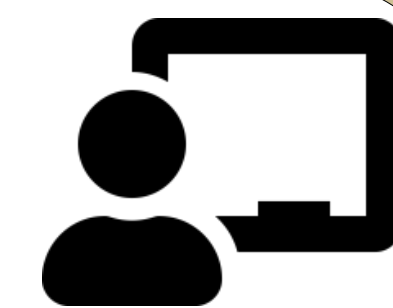
	kilograms
-	24
	13
	<b>11</b>



11 kilograms  
of wheat.

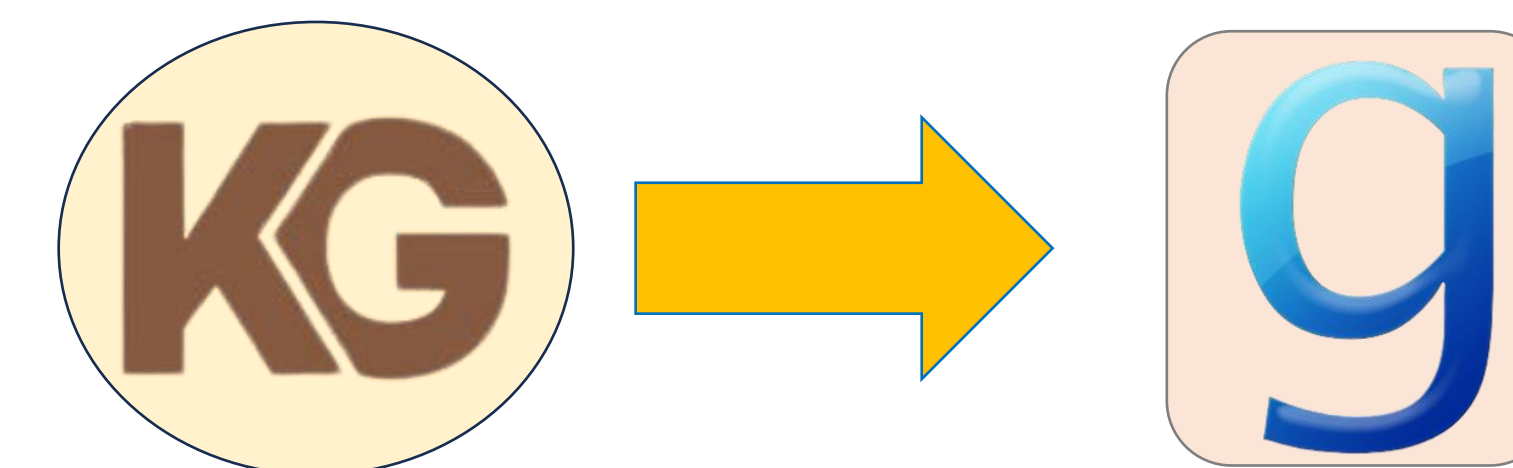
Hence, 24 kilograms - 13 kilograms = **11 kilograms**

So, answer is **11 kilograms**.



Convert 11 kilograms into **grams**

**Solution:**

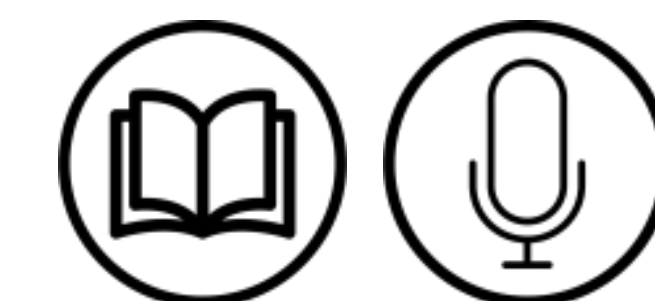


**1 kilogram = 1000 grams**

11 kilograms = **11 x 1000 grams**

= **11000 grams**

So, **11 kilograms is equal to 11000 grams**.





## Example: 2

Subtract 46 grams and 24 grams.

**Solution:**

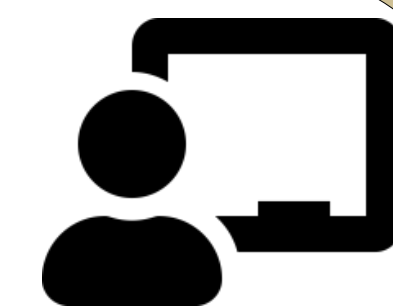
	grams
-	46
	24
	<b>22</b>



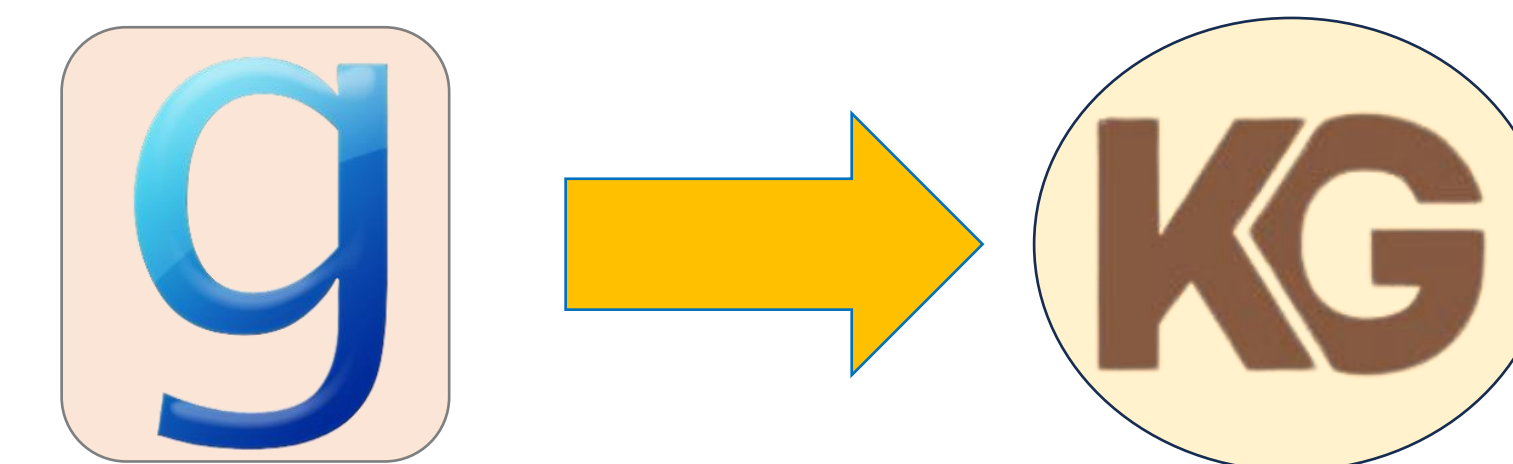
22 grams  
of toothbrush.

Hence, 46 kilograms - 24 kilograms = **22 grams**

So, answer is **22 grams**.



Convert 22 grams into **kilograms**



**Solution:**

$$1 \text{ gram} = \frac{1}{1000} \text{ kilograms}$$

$$22 \text{ grams} = \frac{22}{1000} \text{ kilograms}$$

$$= 0.022 \text{ kilograms}$$

So, **22 grams** is equal to **0.022 kilograms**.







## Example: 3

Subtract 68 kilograms 57 grams and  
56 kilograms 24 grams

**Solution:**



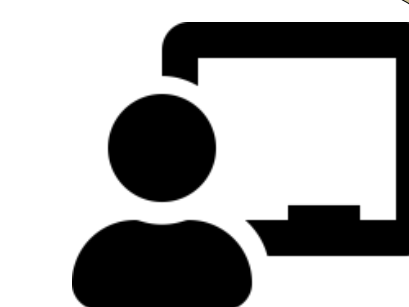
12 kilograms  
33 grams weight of  
a wooden bed.

kilograms	grams
68	57
56	24
12	33

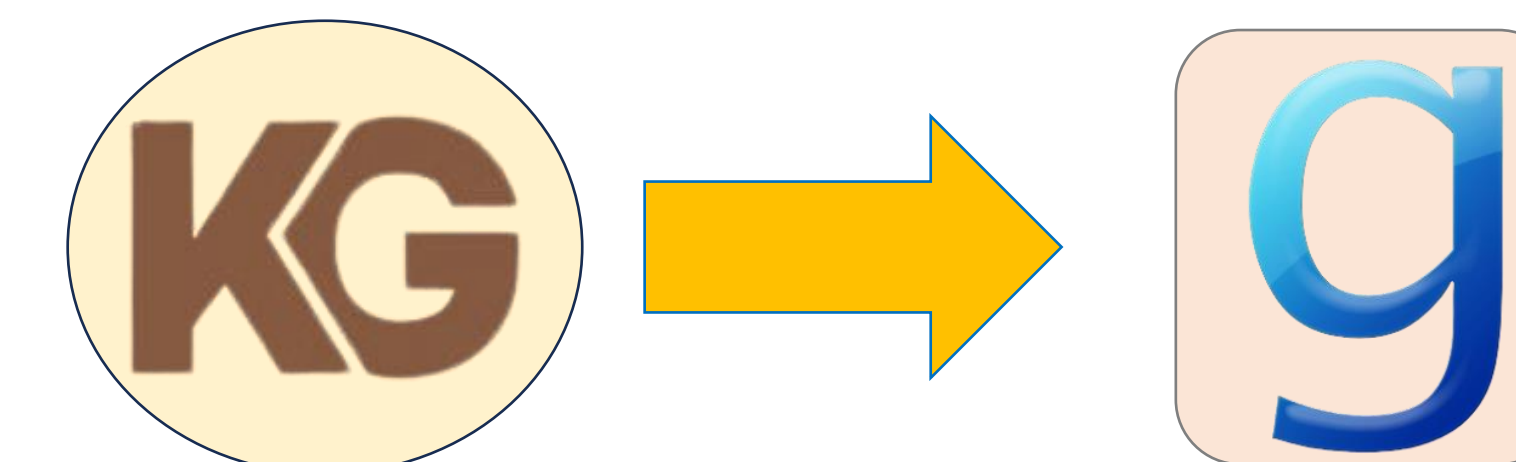
Hence, 68 kilograms 57 grams  
- 56 kilograms 24 grams = **12 kilograms  
33 grams**

So, answer is **12 kilograms 33 grams**.

## Convert 12 kilograms 33 grams



into **grams**



**Solution:**

First we have to convert 12 kilograms into grams

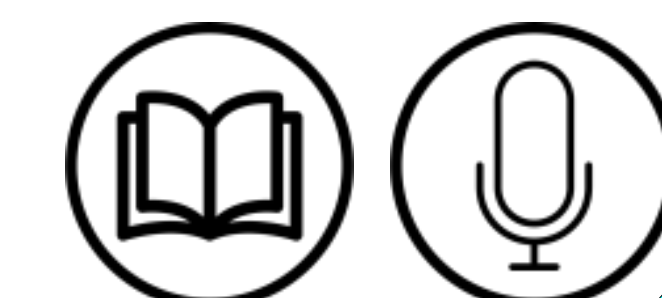
**1 kilogram = 1000 grams**

12 kilograms = **12 x 1000 grams**

= **12000 grams**

12 kilograms  
33 grams = **12000 + 33 = 12033 grams**

So, **12 kilograms 33 grams** is equal  
to **12033 grams**.





## Example: 4

Subtract 86 kilograms 49 grams and  
40 kilograms 23 grams

### Solution:



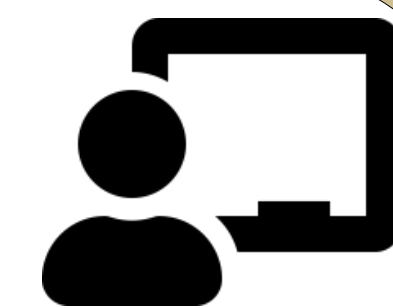
Weight - 46 kilograms  
26 grams .

kilograms	grams
86	49
40	23
<b>46</b>	<b>26</b>

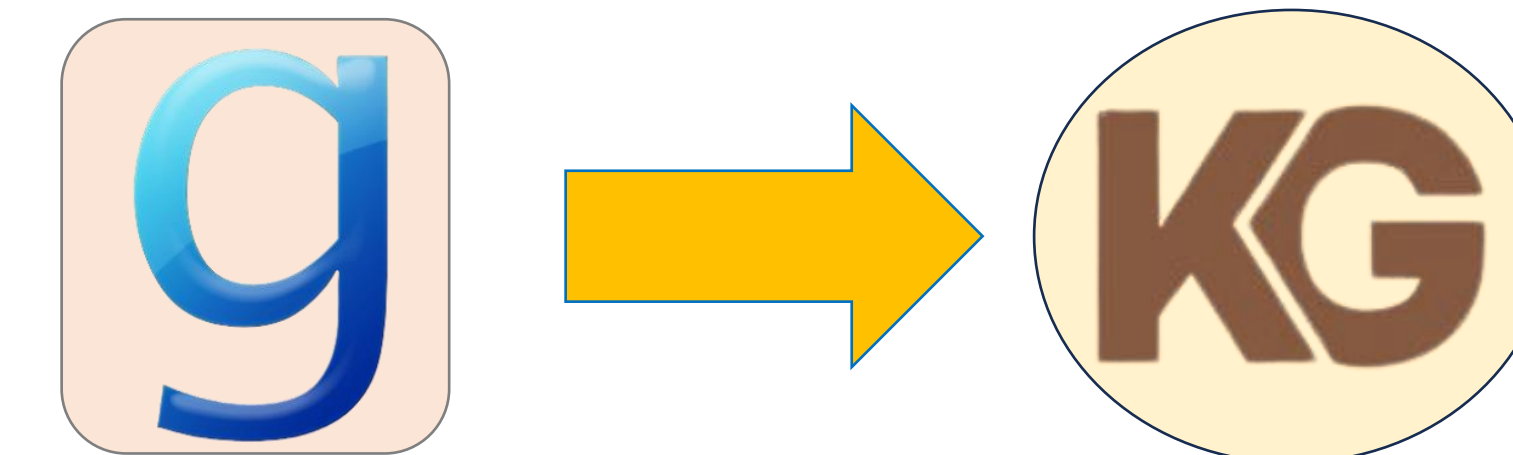
Hence, 86 kilograms 49 grams  
- 40 kilograms 23 grams = **46 kilograms  
26 grams**

So, answer is **46 kilograms 26 grams.**

## Convert 46 kilograms 26 grams into kilograms



### Solution:



First we have to convert 26 grams into kilograms

$$1 \text{ gram} = \frac{1}{1000} \text{ kilograms}$$

$$26 \text{ grams} = \frac{26}{1000} \text{ kilograms}$$

$$= 0.026 \text{ kilograms}$$

$$46 \text{ kilograms} \\ 26 \text{ grams} = 46 + 0.026 = 46.026 \text{ kilograms}$$

So, 46 kilograms 26 grams is equal  
to 46.026 kilograms.

