

MASS

Learning objective:

- I am able to convert kilograms to gram or grams to kilograms

Step to success:

- use $1 \text{ kg} = 1000 \text{ g}$
- Convert kilograms to grams
- Convert grams to kilograms

Converting mass from from kg to g or g to kg is the same as when we converted lengths.

Converting kilograms to grams



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

We can use this to find 8 kilogram in grams.

$$1 \text{ kg} = 1000 \text{ g}$$

$$\begin{aligned} 8 \text{ kg} &= 8 \times 1000 \text{ g} \\ &= 8000 \text{ g} \end{aligned}$$

Converting grams to kilograms

Using $1000 \text{ g} = 1 \text{ kg}$

We can use this to find 5000 g in kilograms

$$1000 \text{ g} = 1 \text{ kg}$$

$$\begin{aligned} 5000 \text{ g} &= 5000 \div 1000 \\ &= 5 \text{ kg} \end{aligned}$$

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CONVERT THE FOLLOWING INTO GRAMS

Example

$$1 \text{ kg } 50 \text{ g} \begin{cases} \rightarrow 1 \text{ kg} = 1000 \text{ g} \\ \rightarrow 50 \text{ g} \end{cases} \begin{array}{r} 1000 \\ + 50 \\ \hline 1050 \end{array}$$

Hence, 1 kg 50 g is equal to 1050 g

Example

$$5 \text{ kg } 405 \text{ g} \begin{cases} \rightarrow 5 \text{ kg} = 5000 \text{ g} \\ \rightarrow 405 \text{ g} \end{cases} \begin{array}{r} 5000 \\ + 405 \\ \hline 5405 \end{array}$$

Hence, 5 kg 405 g is equal to 5405 g

1 $8 \text{ kg } 689 \text{ g} \begin{cases} \rightarrow 8 \text{ kg} = \boxed{} \text{ g} \\ \rightarrow \boxed{} \text{ g} \end{cases}$

Hence, 8 kg 689 g is equal to $\boxed{}$ g

2 $6 \text{ kg } 10 \text{ g} \begin{cases} \rightarrow 6 \text{ kg} = \boxed{} \text{ g} \\ \rightarrow \boxed{} \text{ g} \end{cases}$

Hence, 6 kg 10 g is equal to $\boxed{}$ g

3 $4 \text{ kg } 740 \text{ g} \begin{cases} \rightarrow 4 \text{ kg} = \boxed{} \text{ g} \\ \rightarrow \boxed{} \text{ g} \end{cases}$

Hence, 4 kg 740 g is equal to $\boxed{}$ g

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CONVERT THE FOLLOWING INTO KILOGRAMS AND GRAMS

Example

$$5805 \text{ g} \begin{cases} \rightarrow 5000 \text{ g} = 5 \text{ kg} \\ \rightarrow 805 \text{ g} \end{cases}$$

$$\begin{array}{r} 5805 \\ - 5000 \\ \hline 0805 \end{array}$$

Hence, 5805 g is equal to 5 kg 805 g

Example

$$6090 \text{ g} \begin{cases} \rightarrow 6000 \text{ g} = 6 \text{ kg} \\ \rightarrow 90 \text{ g} \end{cases}$$

$$\begin{array}{r} 6090 \\ - 6000 \\ \hline 0090 \end{array}$$

Hence, 6090 g is equal to 6 kg 90 g

1 $4900 \text{ g} \begin{cases} \rightarrow 4000 \text{ g} = \boxed{} \text{ kg} \\ \rightarrow \boxed{} \text{ g} \end{cases}$

Hence, 4900 g is equal to $\boxed{} \text{ kg } \boxed{} \text{ g}$

2 $5205 \text{ g} \begin{cases} \rightarrow 5000 \text{ g} = \boxed{} \text{ kg} \\ \rightarrow \boxed{} \text{ g} \end{cases}$

Hence, 5205 g is equal to $\boxed{} \text{ kg } \boxed{} \text{ g}$

3 $3320 \text{ g} \begin{cases} \rightarrow 3000 \text{ g} = \boxed{} \text{ kg} \\ \rightarrow \boxed{} \text{ g} \end{cases}$

Hence, 3320 g is equal to $\boxed{} \text{ kg } \boxed{} \text{ g}$