

# 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 kg to g or g to kg is the same as when we converted lengths.**

## Converting kilograms to grams



So, 1 kilogram = 1000 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

$$1 \text{ kg } 50 \text{ g} \rightarrow \begin{array}{rcl} 1 \text{ kg} & = & 1000 \text{ g} \\ & + & \underline{50} \\ & & 1008 \end{array}$$

Hence, 1 kg 8 g is equal to **1008** g

### Example

$$5 \text{ kg } 405 \text{ g} \rightarrow \begin{array}{rcl} 5 \text{ kg} & = & 5000 \text{ g} \\ & + & \underline{405} \\ & & 5405 \end{array}$$

Hence, 1 kg 8 g is equal to **5405** g

1

$$8 \text{ kg } 689 \text{ g} \rightarrow \begin{array}{rcl} 8 \text{ kg} & = & \boxed{\phantom{000}} \text{ g} \\ & & \boxed{\phantom{000}} \text{ g} \end{array}$$

Hence, 8 kg 689 g is equal to **8689** g

2

$$6 \text{ kg } 10 \text{ g} \rightarrow \begin{array}{rcl} 6 \text{ kg} & = & \boxed{\phantom{000}} \text{ g} \\ & & \boxed{\phantom{000}} \text{ g} \end{array}$$

Hence, 6 kg 10 g is equal to **6010** g

3

$$4 \text{ kg } 740 \text{ g} \rightarrow \begin{array}{rcl} 4 \text{ kg} & = & \boxed{\phantom{000}} \text{ g} \\ & & \boxed{\phantom{000}} \text{ g} \end{array}$$

Hence, 4 kg 740 g is equal to **4740** g

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## CONVERT THE FOLLOWING INTO KILOGRAMS AND GRAMS

### Example

$$\begin{array}{r} 5000 \text{ g} = \boxed{5} \text{ kg} - \begin{array}{r} 5805 \\ 5000 \\ \hline 0805 \end{array} \\ \begin{array}{r} 805 \\ \hline 805 \end{array} \text{ g} \end{array}$$

Hence, 8091 g is equal to 5 kg 805 g

### Example

$$\begin{array}{r} 6000 \text{ g} = \boxed{6} \text{ kg} - \begin{array}{r} 6090 \\ 6000 \\ \hline 0090 \end{array} \\ \begin{array}{r} 90 \\ \hline 90 \end{array} \text{ g} \end{array}$$

Hence, 8091 g is equal to 6 kg 90 g

1

$$\begin{array}{r} 4900 \text{ g} \rightarrow 4000 \text{ g} = \boxed{\phantom{00}} \text{ kg} \\ \rightarrow \boxed{\phantom{000}} \text{ g} \end{array}$$

Hence, 4900g is equal to 4 kg 900 g

2

$$\begin{array}{r} 5205 \text{ g} \rightarrow 5000 \text{ g} = \boxed{\phantom{00}} \text{ kg} \\ \rightarrow \boxed{\phantom{000}} \text{ g} \end{array}$$

Hence, 5205 g is equal to 5 kg 205 g

3

$$\begin{array}{r} 3320 \text{ g} \rightarrow 3000 \text{ g} = \boxed{\phantom{00}} \text{ kg} \\ \rightarrow \boxed{\phantom{000}} \text{ g} \end{array}$$

Hence, 3320 g is equal to 3 kg 320 g