

MEASURING LENGTH IN M AND KM

Learning objective:

- I am able to convert kilometres to metres or metres to kilometres

Step to success:

- use 1 km = 1000 m
- Convert kilometres to metres
- Convert metres to kilometres

LET'S REMEMBER!

$1 \times 1000 = 1000$ when you multiply.
1 2 3
you add the
 $2 \times 1000 = 2000$ number of zeros
1 2 3

$1000 \div 10 = 100$ When you divide
1
you cancel the
 $2000 \div 1000 = 2$ number of zeros
1 2 3



So, if 1 km = 1000 m

We can use this to find 2 km in metres.

$$1 \text{ km} = 1000 \text{ m}$$

$$\begin{aligned}2 \text{ km} &= 2 \times 1000 \text{ m} \\&= 2000 \text{ m}\end{aligned}$$

We can also change metres to kilometres using 1 km = 1000 m

So, if 1000 m = 1 km

We can use this to find 7000 m in kilometres.

$$1000 \text{ m} = 1 \text{ km}$$

$$\begin{aligned}7000 \text{ m} &= 7000 \div 1000 \text{ m} \\&= 7 \text{ km}\end{aligned}$$

Name: _____

Date: _____

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CONVERT THE FOLLOWING INTO METRES

Example

$$1 \text{ km } 8 \text{ m} \quad \begin{array}{l} \xrightarrow{\hspace{1cm}} 1 \text{ km} = \boxed{1000} \text{ m} \\ \xrightarrow{\hspace{1cm}} \boxed{8} \text{ m} \end{array} \quad \begin{array}{r} 1000 \\ + 8 \\ \hline 1008 \end{array}$$

Hence, 1 km 8 m is equal to 1008 m

1 8 km 90 m $\begin{array}{l} \xrightarrow{\hspace{1cm}} 1 \text{ km} = \boxed{} \text{ m} \\ \xrightarrow{\hspace{1cm}} \boxed{} \text{ m} \end{array}$

Hence, 8 km 90 m is equal to m

2 9 km 108 m $\begin{array}{l} \xrightarrow{\hspace{1cm}} 9 \text{ km} = \boxed{} \text{ m} \\ \xrightarrow{\hspace{1cm}} \boxed{} \text{ m} \end{array}$

Hence, 9 km 108 m is equal to m

3 6 km 8 m $\begin{array}{l} \xrightarrow{\hspace{1cm}} 6 \text{ km} = \boxed{} \text{ m} \\ \xrightarrow{\hspace{1cm}} \boxed{} \text{ m} \end{array}$

Hence, 6 km 8 m is equal to m

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MEASURING LENGTH IN M AND CM

Learning objective:

- I am able to convert kilometres to metres or metres to kilometres

Step to success:

- use 1 km = 1000 m
- Convert kilometres to metres
- Convert metres to kilometres

CONVERT THE FOLLOWING INTO METRES AND KILOMETRES

Example

$$8091 \text{ m} = \boxed{8} \text{ km} - \begin{array}{r} 8091 \\ - 8000 \\ \hline 0091 \end{array}$$

8000 m = km

91 cm

Hence, 8091 m is equal to km m

1

$$6709 \text{ m} = \boxed{} \text{ km}$$

6000 m = km

m

Hence, 6709 m is equal to km m

2

$$8922 \text{ m} = \boxed{} \text{ km}$$

8000 m = km

m

Hence, 8922 m is equal to km m

3

$$3002 \text{ m} = \boxed{} \text{ km}$$

3000 m = km

m

Hence, 3002 m is equal to km m