

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!

$$\begin{array}{l} 1 \times 1000 = \underline{1000} \text{ when you multiply,} \\ \quad \quad \quad \text{you add the} \\ 2 \times 1000 = \underline{2000} \text{ number of zeros} \end{array}$$

$$\begin{array}{l} 1000 \div 10 = 100 \text{ When you divide} \\ \quad \quad \quad \text{you cancel the} \\ 2000 \div 1000 = 2 \text{ number of zeros} \end{array}$$



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

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

Hence, 1 km 8 m is equal to $\boxed{1008}$ m

1 $8 \text{ km } 90 \text{ m} \rightarrow \begin{array}{l} 8 \text{ km} = \boxed{} \text{ m} \\ \quad \quad \quad \boxed{} \text{ m} \end{array}$

Hence, 8 km 90 m is equal to $\boxed{}$ m

2 $9 \text{ km } 108 \text{ m} \rightarrow \begin{array}{l} 9 \text{ km} = \boxed{} \text{ m} \\ \quad \quad \quad \boxed{} \text{ m} \end{array}$

Hence, 9 km 108 m is equal to $\boxed{}$ m

3 $6 \text{ km } 8 \text{ m} \rightarrow \begin{array}{l} 6 \text{ km} = \boxed{} \text{ m} \\ \quad \quad \quad \boxed{} \text{ m} \end{array}$

Hence, 6 km 8 m is equal to $\boxed{}$ m

Name: _____ Date: _____

MEASURING LENGTH IN M AND CM

Learning objective:

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

Step to success:

- use $1 \text{ km} = 1000 \text{ m}$
- Convert kilometres to metres
- Convert metres to kilometres

CONVERT THE FOLLOWING INTO METRES AND KILOMETRES

Example

$$\begin{array}{l} 8091 \text{ m} \rightarrow 8000 \text{ m} = \boxed{8} \text{ km} \\ \quad \quad \quad \rightarrow \boxed{91} \text{ m} \end{array} \quad \begin{array}{r} 8091 \\ - 8000 \\ \hline 0091 \end{array}$$

Hence, 8091 m is equal to $\boxed{8} \text{ km } \boxed{91} \text{ m}$

1 $6709 \text{ m} \rightarrow 6000 \text{ m} = \boxed{} \text{ km}$
 $\quad \quad \quad \rightarrow \boxed{} \text{ m}$

Hence, 6709 m is equal to $\boxed{} \text{ km } \boxed{} \text{ m}$

2 $8922 \text{ m} \rightarrow 8000 \text{ m} = \boxed{} \text{ km}$
 $\quad \quad \quad \rightarrow \boxed{} \text{ m}$

Hence, 8922 m is equal to $\boxed{} \text{ km } \boxed{} \text{ m}$

3 $3002 \text{ m} \rightarrow 3000 \text{ m} = \boxed{} \text{ km}$
 $\quad \quad \quad \rightarrow \boxed{} \text{ m}$

Hence, 3002 m is equal to $\boxed{} \text{ km } \boxed{} \text{ m}$