

Ch4: Long and Short

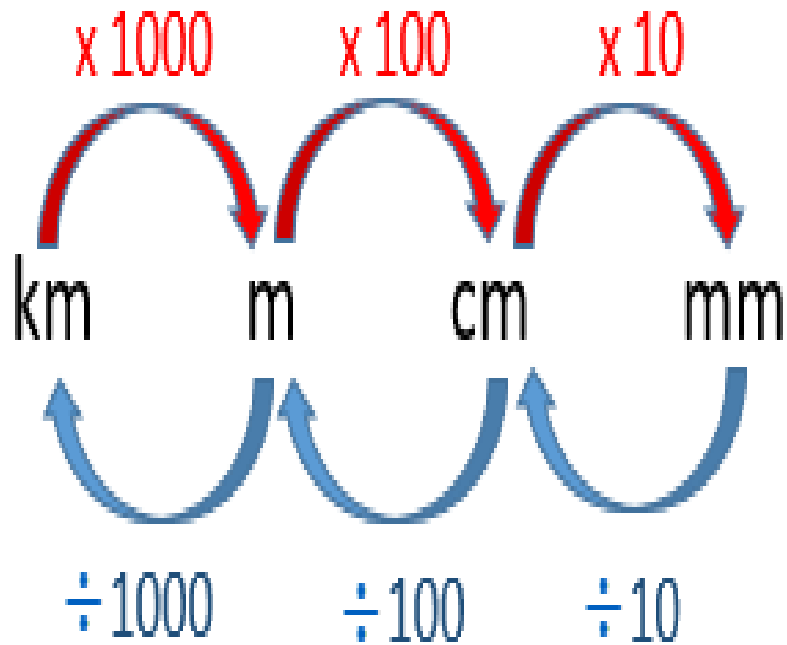
Conversion between different units of length(Smaller to Bigger)

Maths copy: 2

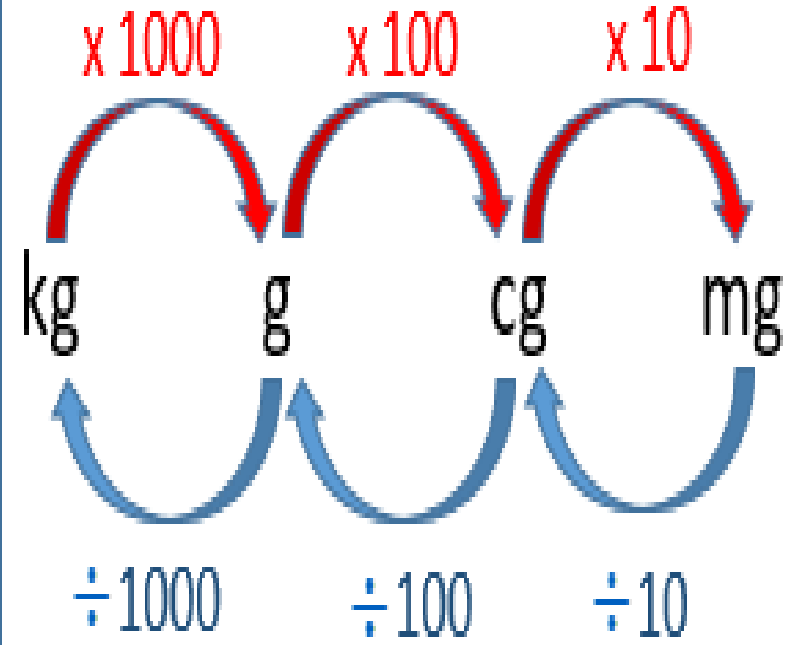
Date: 16/7/21

Conversion Rules

Converting Metric Lengths



Converting Metric Weights



Conversion Rules

While

converting(changing)

from smaller unit to

bigger unit we need to

divide.

Convert mm into cm

1) Convert 80 mm into cm
Soln We know,
 $1 \text{ cm} = 10 \text{ mm}$

$$\therefore 80 \text{ mm} = 80 \div 10 \text{ cm} \\ = 8 \text{ cm}$$

$$\begin{array}{r} 8 \rightarrow 8 \text{ cm} \\ 10 \overline{) 80} \\ \underline{-80} \\ \text{xx} \end{array}$$

Ans) $80 \text{ mm} = 8 \text{ cm}$

Conversion between mm into cm and mm

a) Convert 769mm into cm and mm

Soln. We know,

$$1 \text{ cm} = 10 \text{ mm}$$

$$\therefore 769 \text{ mm} = 769 \div 10 \text{ cm} \\ = 76 \text{ cm } 9 \text{ mm}.$$

$$\begin{array}{r} 76 \rightarrow \text{cm} \\ 10 \overline{) 769} \\ \underline{- 70} \downarrow \\ \times 69 \\ \underline{- 60} \\ \times 9 \rightarrow \text{mm} \end{array}$$

Ans) $769 \text{ mm} = 76 \text{ cm } 9 \text{ mm}$

Convert cm into m

3) Convert 900cm into m

Soln We know, $1\text{m} = 100\text{cm}$

$$\begin{aligned}\therefore 900\text{cm} &= 900 \div 100\text{m} \\ &= 9\text{m}\end{aligned}$$

$$\begin{array}{r} 9\text{m} \\ 100 \overline{) 900} \\ \underline{- 900} \\ \text{***} \end{array}$$

Ans) $900\text{cm} = 9\text{m}$.

Convert cm into m and cm

4) Convert 5760 cm into m and cm.

Soln We know, $1\text{m} = 100\text{cm}$

$$\begin{aligned}\therefore 5760\text{cm} &= 5760 \div 100\text{m} \\ &= 57\text{m}60\text{cm}\end{aligned}$$

$$\begin{array}{r} 57 \rightarrow \text{m} \\ \hline 100 \overline{) 5760} \\ \underline{- 500} \downarrow \\ \times 760 \\ \underline{- 700} \\ \times 60 \rightarrow \text{cm} \end{array}$$

Ans) $5760\text{cm} = 57\text{m}60\text{cm}$.

Convert m into km

5) Convert 8000 m into km

Soln. We know, $1 \text{ km} = 1000 \text{ m}$

$$\therefore 8000 \text{ m} = 8000 \div 1000 \text{ km} \\ = 8 \text{ km}.$$

$$\begin{array}{r} 8 \rightarrow \text{km} \\ 1000 \overline{) 8000} \\ \underline{-8000} \\ \text{xxxx} \end{array}$$

Ans) $8000 \text{ m} = 8 \text{ km}.$

Convert m into km and m

b) Convert 9260 m into km and m

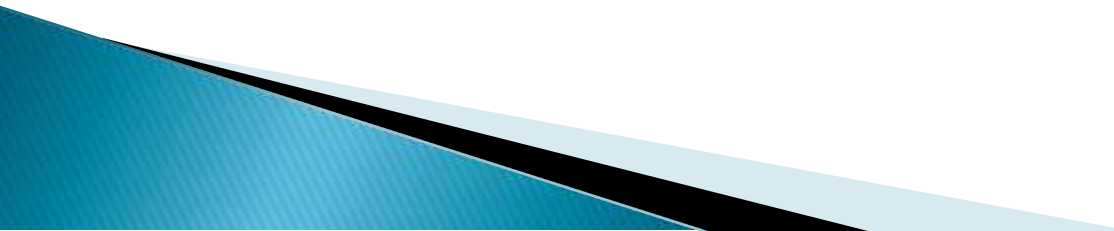
Soln. We know, $1 \text{ km} = 1000 \text{ m}$

$$\begin{aligned}\therefore 9260 \text{ m} &= 9260 \div 1000 \text{ km} \\ &= 9 \text{ km } 260 \text{ m}\end{aligned}$$

$$\begin{array}{r} 9 \rightarrow \text{km} \\ 1000 \overline{) 9260} \\ \underline{- 9000} \\ \times 260 \rightarrow \text{m} \end{array}$$

Ans) $9260 \text{ m} = 9 \text{ km } 260 \text{ m}$.

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- 1) Convert 203mm into cm and mm.
 - 2) Convert 7009m into km and m.
 - 3) Convert 902cm into m and cm.
 - 4) Convert 20km500m into m
 - 5) Convert 3000cm into m.
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Thank You

