

MEASURING LENGTH IN M AND CM

Learning objective:

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

Step to success:

- use 1 m = 100 cm
- Convert metres to centimetres.
- Convert centimetres to metres

LET'S REMEMBER!

$$\begin{array}{l} 1 \times 10 = 10 \\ 2 \times 100 = 200 \end{array} \quad \begin{array}{l} \text{when you multiply,} \\ \text{you add the} \\ \text{number of zeros} \end{array}$$

$$\begin{array}{l} 100 \div 10 = 10 \\ 200 \div 100 = 2 \end{array} \quad \begin{array}{l} \text{When you divide} \\ \text{you cancel the} \\ \text{number of zeros} \end{array}$$



So, if 1 m = 100 cm

We can use this to find 2 m in centimetres.

$$1 \text{ m} = 100 \text{ cm}$$

$$\begin{aligned} 2 \text{ m} &= 2 \times 100 \text{ cm} \\ &= 200 \text{ cm} \end{aligned}$$

We can also change centimetres to metres using 1 m = 100 cm

So, if 100 cm = 1 m

We can use this to find 900 cm in metres.

$$100 \text{ cm} = 1 \text{ m}$$

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

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CONVERT THE FOLLOWING INTO CENTIMETRES

Example

$$\begin{array}{l} 1 \text{ m } 26 \text{ cm} \rightarrow \begin{array}{l} 1 \text{ m} = \boxed{100} \text{ cm} \\ \boxed{26} \text{ cm} \end{array} \end{array} \quad \begin{array}{r} + 100 \\ 26 \\ \hline 126 \end{array}$$

Hence, 1 m 26 cm is equal to $\boxed{126}$ cm

1 $5 \text{ m } 57 \text{ cm} \rightarrow \begin{array}{l} 5 \text{ m} = \boxed{} \text{ cm} \\ \boxed{} \text{ cm} \end{array}$

Hence, 5 m 57 cm is equal to $\boxed{}$ cm

2 $4 \text{ m } 27 \text{ cm} \rightarrow \begin{array}{l} 4 \text{ m} = \boxed{} \text{ cm} \\ \boxed{} \text{ cm} \end{array}$

Hence, 4 m 27 cm is equal to $\boxed{}$ cm

3 $3 \text{ m } 69 \text{ cm} \rightarrow \begin{array}{l} 3 \text{ m} \quad \boxed{} \text{ cm} \\ \boxed{} \text{ cm} \end{array}$

Hence, 3 m 69 cm is equal to $\boxed{}$ cm

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CONVERT THE FOLLOWING INTO METRES AND CENTIMETRES

Example

$$\begin{array}{l} 891 \text{ cm} \rightarrow 800 \text{ cm} = \boxed{8} \text{ m} \\ \quad \quad \quad \rightarrow \boxed{91} \text{ cm} \end{array}$$
$$\begin{array}{r} 891 \\ - 800 \\ \hline 091 \end{array}$$

Hence, 891 cm is equal to $\boxed{8}$ m $\boxed{91}$ cm

1

$$903 \text{ cm} \rightarrow 900 \text{ cm} = \boxed{} \text{ m}$$
$$\quad \quad \quad \rightarrow \boxed{} \text{ cm}$$

Hence, 903 cm is equal to $\boxed{}$ m $\boxed{}$ cm

2

$$782 \text{ cm} \rightarrow 700 \text{ cm} = \boxed{} \text{ m}$$
$$\quad \quad \quad \rightarrow \boxed{} \text{ cm}$$

Hence, 782 cm is equal to $\boxed{}$ m $\boxed{}$ cm

3

$$449 \text{ cm} \rightarrow 400 \text{ cm} = \boxed{} \text{ m}$$
$$\quad \quad \quad \rightarrow \boxed{} \text{ cm}$$

Hence, 449 cm is equal to $\boxed{}$ m $\boxed{}$ cm