

# Converting units of length metric units

Today, we are continuing with our work on converting length in metric units.

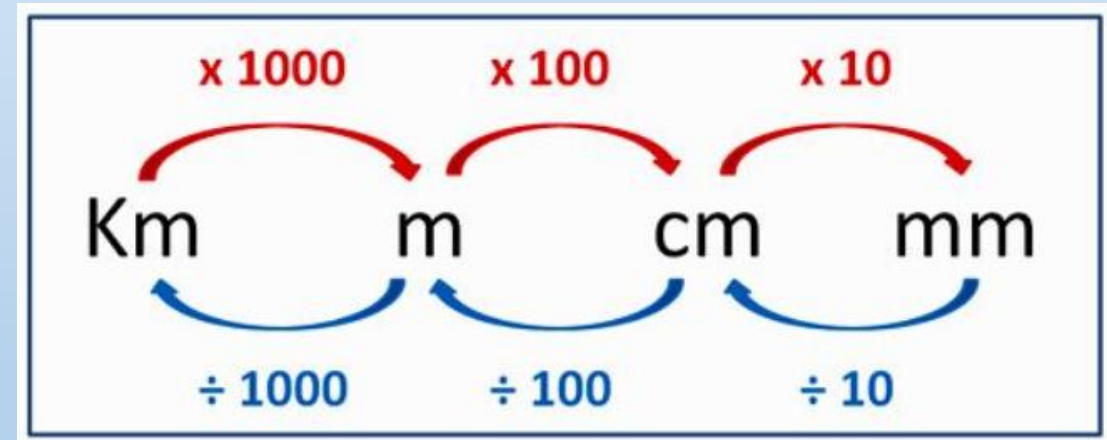
Today, we will revise the learning completed throughout the week on converting units of measurement.

These are the key facts we need to remember:

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

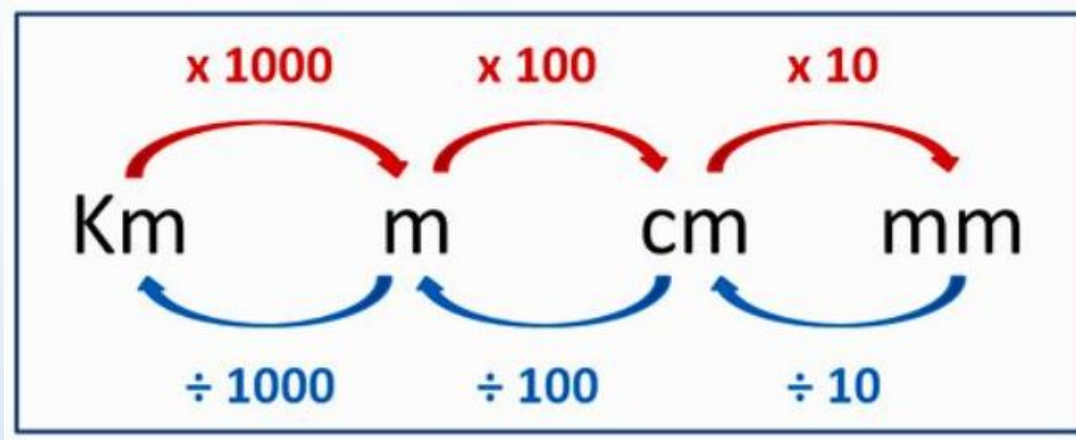
$$100\text{ cm} = 1\text{m}$$

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



Listen to this song to remind you of these facts!

<https://www.youtube.com/watch?v=djTNUUp4XIRo>



Today, we are revising our skills throughout the week of converting different lengths. Remember to use the information above to help you. Here are some examples to remind you.

$$120 \text{ mm} = 12 \text{ cm}$$

$$15 \text{ m} = 1,500 \text{ cm}$$

$$12,500 \text{ mm} = 12.5 \text{ m}$$

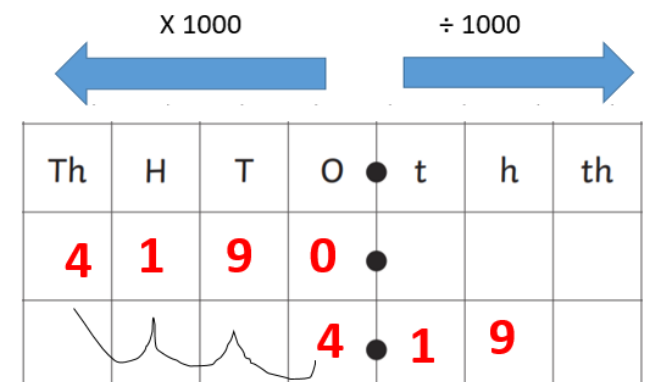
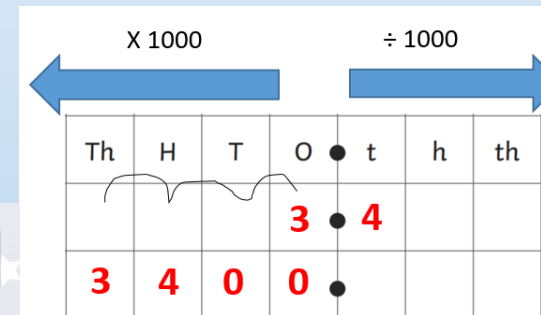
$$175 \text{ cm} = 1,750 \text{ mm}$$

$$0.1 \text{ m} = 10 \text{ cm}$$

$$325 \text{ cm} = 3.25 \text{ m}$$

$$2,500 \text{ cm} = 25,000 \text{ mm}$$

$$25,000 \text{ mm} = 25 \text{ m}$$



$$4190 \text{ m} = 4.19 \text{ km}$$



3

Put the following measurements in increasing order.

32 cm

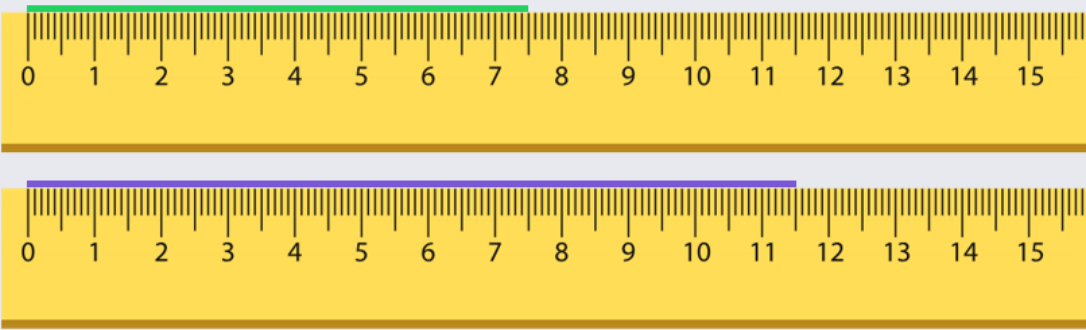
120 mm

0.23 m

21 cm

Measure the green and purple lines below, giving the readings in cm and mm.

1



4

Ruth and Jamal are measuring various objects in their classroom. Ruth gives her measurements as mm, Jamal gives his as cm measurements.

- a) Ruth says, "The pencil sharpener is 51 mm long." What length measurement would Jamal have given?
- b) Jamal says, "The pencil sharpener is 3.7 cm wide." What width measurement would Ruth have given?

2

 $\underline{\hspace{1cm}} \text{ mm} = 17 \text{ cm}$  $0.7 \text{ m} = \underline{\hspace{1cm}} \text{ cm}$  $\underline{\hspace{1cm}} \text{ m} = 1,700 \text{ cm}$  $\underline{\hspace{1cm}} \text{ cm} = 3.75 \text{ m}$  $17,500 \text{ mm} = \underline{\hspace{1cm}} \text{ m}$  $\underline{\hspace{1cm}} \text{ cm} = 35,000 \text{ mm}$  $125 \text{ cm} = \underline{\hspace{1cm}} \text{ mm}$  $35,000 \text{ mm} = \underline{\hspace{1cm}} \text{ m}$



1

$$\text{___ mm} = 17 \text{ cm}$$

$$\text{___ m} = 1,700 \text{ cm}$$

$$17,500 \text{ mm} = \text{___ m}$$

$$125 \text{ cm} = \text{___ mm}$$

$$0.7 \text{ m} = \text{___ cm}$$

$$\text{___ cm} = 3.75 \text{ m}$$

$$\text{___ cm} = 35,000 \text{ mm}$$

$$35,000 \text{ mm} = \text{___ m}$$

2

Put the following measurements in increasing order.

32 cm

120 mm

0.23 m

21 cm

3



A textbook has a height of 15 mm.  
11 textbooks are piled on top of each other.

What is the height of the pile of textbooks?  
Give your answer as a cm measurement.

4

A bamboo plant is 164 cm tall.  
A sunflower is 0.39 m shorter than the bamboo plant.  
How tall is the sunflower?  
Explain your answer.

A rose bush is 173 cm tall.  
A blackberry bush is 0.48 m taller.  
How tall is the blackberry bush?  
Explain your answer.



1

Put the following measurements in increasing order.

350 mm

68 cm

0.24 m

13 cm

2

A 50 p coin is approximately 2 mm thick.  
Jamal stacks £10 worth of 50 p pieces on top of each other.

How tall is Jamal's stack of coins?  
Give your answer as a cm measurement.

3

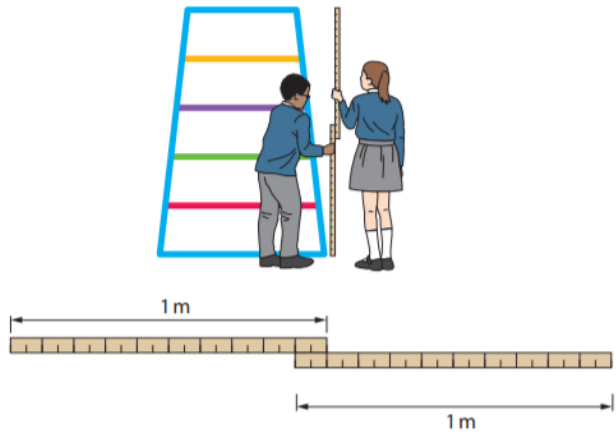
True or false?

$$32\text{ cm} + 1.05\text{ m} = 150\text{ cm} - 0.13\text{ m}$$

4

Joe and Kate are using two metre sticks to measure the height of the climbing frame. Their measurements are shown in the diagram.

How tall is the climbing frame?



5

A 1.2 m ribbon and a 90 cm ribbon are joined by overlapping the ends and gluing them together. The total length of ribbon needs to be 195 cm long.

How much should the two pieces overlap?

