

Tuesday 28th April 2020

L.O. To understand how mm, cm and m are related.

I understand the relationship between mm, cm and m .

I can convert between the metric units of length.

I can compare lengths recorded in different units.



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

There are ten mm in a cm.

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

There are one hundred cm in a metre.

$$1\text{ m} = 100\text{ cm} = 1000\text{ mm}$$

Task 1

A

From the list, choose an appropriate unit of measure for the height of each object.

centimetres metres millimetres



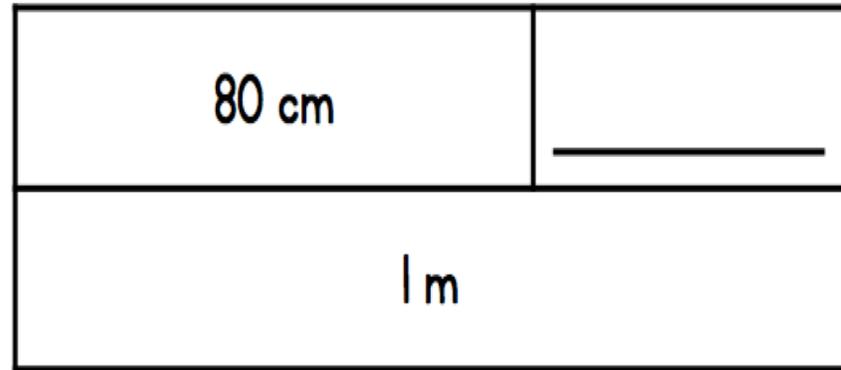
Lighthouse



Tin of beans

B Complete the bar model

B

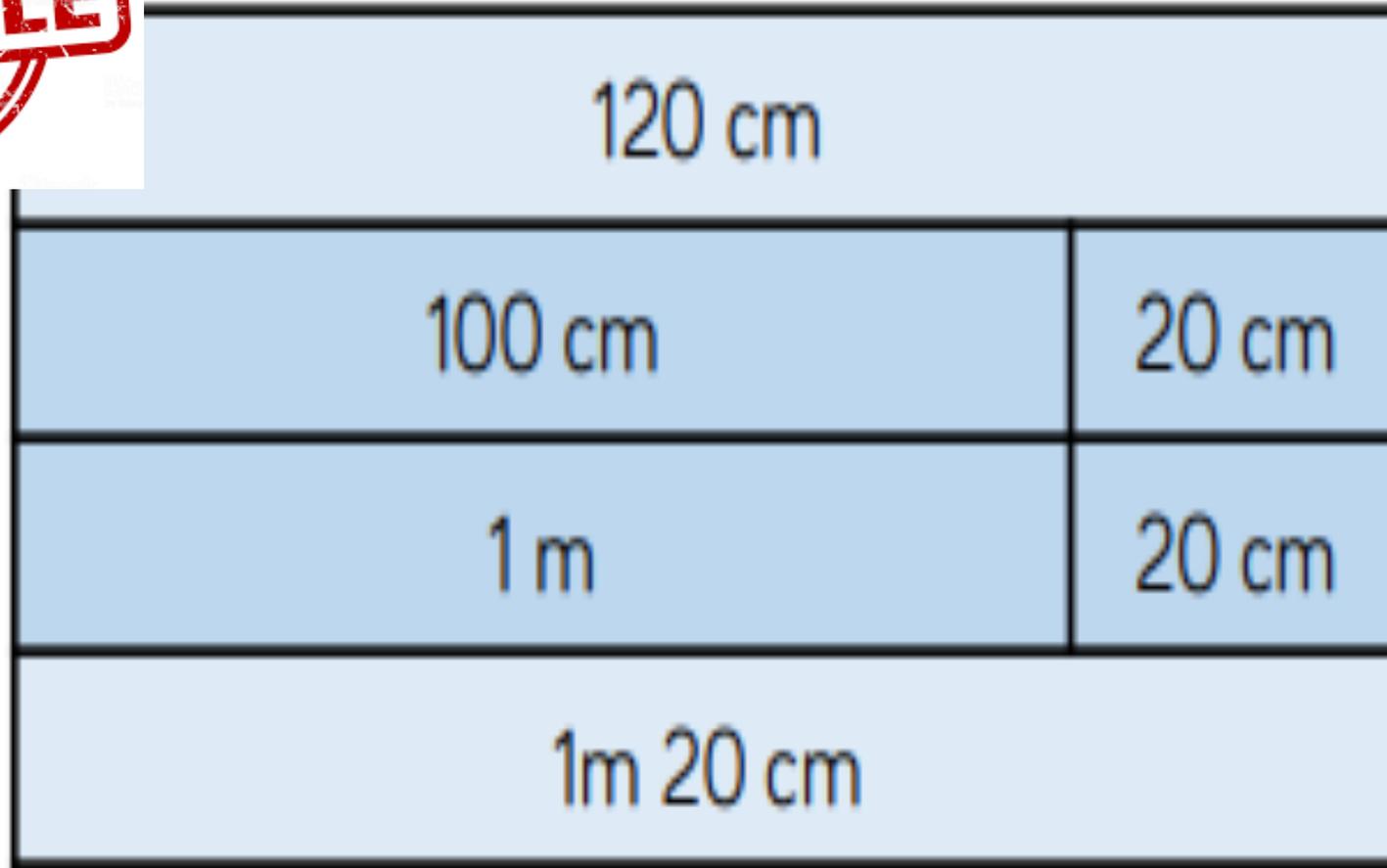


Task 2

How to use a bar model to convert between cm and m



120 cm to m

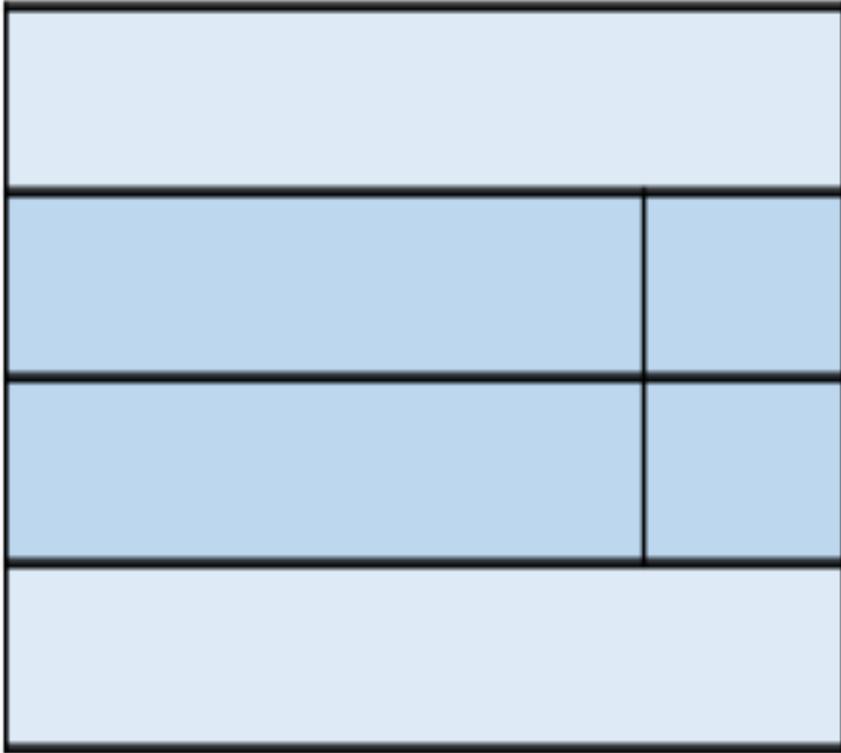


Task 2

Copy and complete the bar model to convert between cm and m

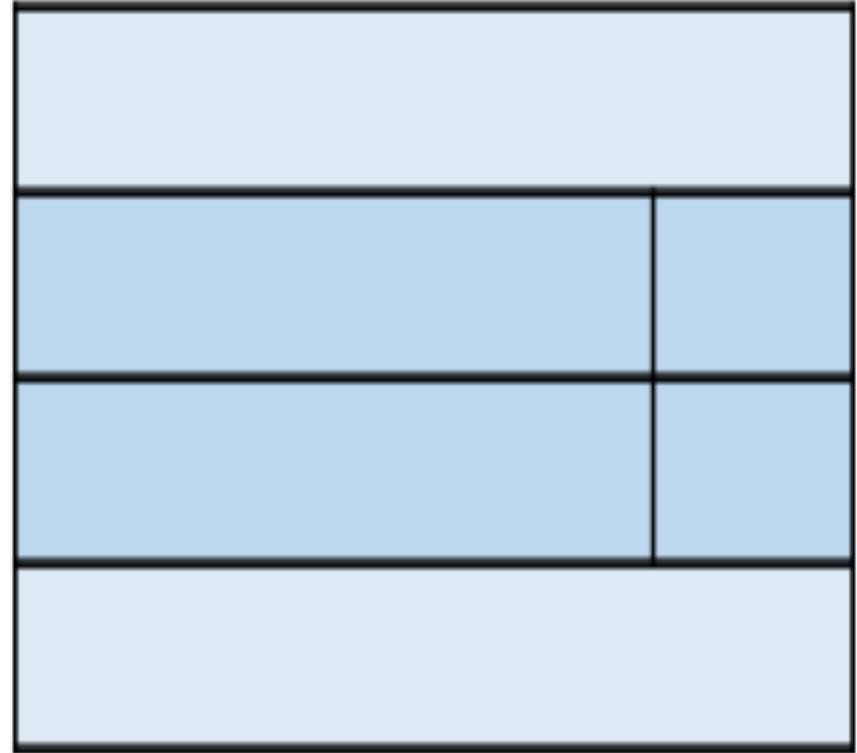
C

Convert 230 cm to m



D

Convert 535 cm to m

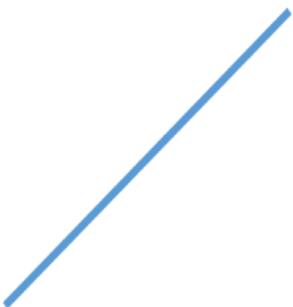


Task 2

E

Match the equivalent lengths

10 mm	2 m
1 m	100 mm
10 cm	20 mm
200 cm	1 cm
2 cm	100 cm



F

Sort the lengths

Longer than a metre	Shorter than a metre

1 m 65 cm

165 mm

165 m

165 cm

16 cm 5 mm

1 cm 65 mm

Are any of the lengths equivalent?

*e.g. Longer than a metre- ... , ...
Shorter than a metre- ... , ...*

Challenge 1

Annie has a 3 m roll of ribbon.



She is cutting it up into 10 cm lengths.
How many lengths can she cut?

Annie gives 240 cm of ribbon to Rosie.
How much ribbon does she have left?
How many 10 cm lengths does she have left?

Challenge 2

A train is 20 metres long.
A car is 15 metres shorter than the train.
A bike is 350 cm shorter than the car.

Calculate the length of the car.
Calculate the length of the bike.
How much longer is the train than the bike?



Time to mark your work

Answers below!



Task 1

A

From the list, choose an appropriate unit of measure for the height of each object.

centimetres

metres

millimetres



Lighthouse

metres

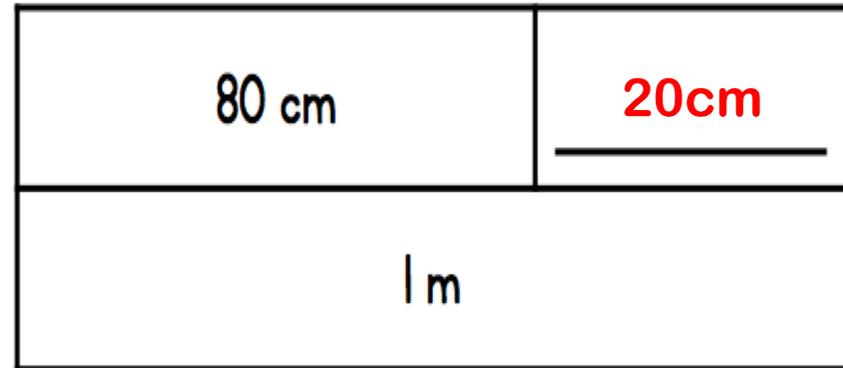


Tin of beans

centimetres

B

Complete the bar model



Task 2

Copy and complete the bar model to convert between cm and m

C

Convert 230 cm to m



D

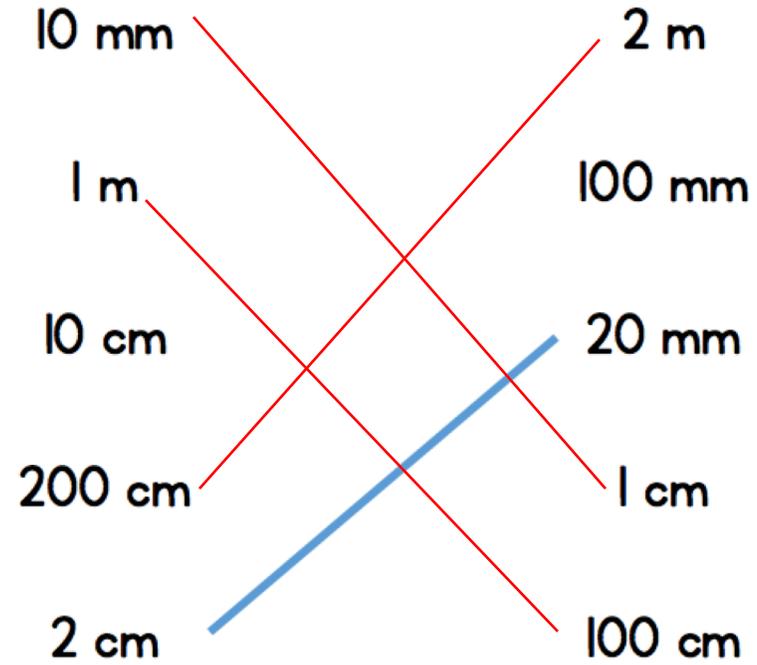
Convert 535 cm to m



Task 3

E

Match the equivalent lengths



Task 3

F

Sort the lengths into the table.

Longer than a metre	Shorter than a metre

1 m 65 cm

165 mm

165 m

165 cm

16 cm 5 mm

1 cm 65 mm

Are any of the lengths equivalent?

1 m 65 cm, 165 cm and 165 m are longer than a metre.

165 mm, 16 cm 5 mm and 1 cm 65 mm are shorter than a metre.

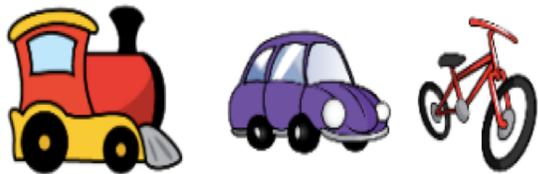
1 m 65 cm is equivalent to 165 cm.

165 mm is equivalent to 16 cm 5 mm.

Challenge 1

A train is 20 metres long.
A car is 15 metres shorter than the train.
A bike is 350 cm shorter than the car.

Calculate the length of the car.
Calculate the length of the bike.
How much longer is the train than the bike?



The car is 5 m and
the bike is 150 cm
or 1 m 50 cm.

The train is 18
metres and 50 cm
longer than the
bike.

Challenge 2

Annie has a 3 m roll of ribbon.



She is cutting it up into 10 cm lengths.
How many lengths can she cut?

Annie gives 240 cm of ribbon to Rosie.
How much ribbon does she have left?
How many 10 cm lengths does she have left?

Annie can cut it in
to 30 lengths.

Annie has 60 cm
left.
She has 6 lengths
left.

Don't forget to self assess neatly at the end! You can add a comment if you like.



Now, take a photo of your work and upload it to the homework page Maths 28.04.20