LI: to compare and order lengths based on measurements in mm, cm and m.

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Key words:

- Millimetre (mm)
- Centimetre (cm)
- Metre (m)
- Compare
- Order

LI: to compare and order lengths based on measurements in mm, cm and m.

Fluency in 5! ☺

https://www.topmarks.co.uk/maths-games/daily10

- Choose what you are comfortable with!
- I usually click on Level 2, then choose a times table/group of times tables to focus on ☺
- We should all know 2x, 5x and 10x, but focus on these if you're still not confident,
- The main tables we should be focusing on are 3x, 4x and 8x ☺

Let's recap!

How many millimetres are in 1 centimetre?

How many centimetres are in 1 metre?

Which unit of measurement is the biggest?
Centimetre   Metre   Millimetre

Let's recap!

How many millimetres are in 1 centimetre?
10mm = 1cm

How many centimetres are in 1 metre?

Which unit of measurement is the biggest?
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10mm = 1cm

How many centimetres are in 1 metre?
100cm = 1m

Which unit of measurement is the biggest?
Centimetre   Metre   Millimetre

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How many millimetres are in 1 centimetre?
10mm = 1cm

How many centimetres are in 1 metre?
100cm = 1m

Which unit of measurement is the biggest?
Centimetre   Metre   Millimetre

Comparing lengths...

To be able to compare and order lengths based on measurements in mm, cm and m, we must use our knowledge of converting between units of measurement to help us compare and order!

Example:

If we had:

75cm   20cm   95cm

How do we compare these?

How do we know how to order these?

So… bigger or smaller?

75cm is _____ than 20cm

20cm is _____ than 95cm

95cm is _____ than 75cm

20cm is _____ than 75cm

So... bigger or smaller?

75cm is _____bigger_____ than 20cm

20cm is _____ than 95cm

95cm is _____ than 75cm

20cm is _____ than 75cm

So… bigger or smaller?

75cm is ___bigger___ than 20cm

20cm is ___smaller___ than 95cm

95cm is _____ than 75cm

20cm is _____ than 75cm

So... bigger or smaller?

75cm is __bigger__ than 20cm

20cm is __smaller__ than 95cm

95cm is __bigger__ than 75cm

20cm is _____ than 75cm

So... bigger or smaller?

75cm is __bigger__ than 20cm

20cm is __smaller__ than 95cm

95cm is __bigger__ than 75cm

20cm is __smaller__ than 75cm

Example:

If we had:

60cm   35mm   5m

How do we **compare** these?

How do we know how to **order** these?

Try these on your boards!

60cm is _____ than 35mm

35mm is _____ than 60cm

35mm is _____ than 5m

5m is _____ than 60cm

Try these on your boards!

60cm is ___bigger___ than 35mm

35mm is _____ than 60cm

35mm is _____ than 5m

5m is _____ than 60cm

Try these on your boards!

60cm is __*bigger*__ than 35mm

35mm is __*smaller*__ than 60cm

35mm is _____ than 5m

5m is _____ than 60cm

Try these on your boards!

60cm is __bigger__ than 35mm

35mm is __smaller__ than 60cm

35mm is __smaller__ than 5m

5m is _____ than 60cm

Try these on your boards!

60cm is ___bigger___ than 35mm

35mm is ___smaller___ than 60cm

35mm is ___smaller___ than 5m

5m is ___bigger___ than 60cm

Class task!

Here is a table with all of your names on,

Challenge:
- Get into pairs,
- Measure each other's height using a metre stick,
- One person measures in cm,
- One person measures in m and cm,

For example: Miss Mathews = 165cm,
Miss Mathews = 1m and 65cm.

Class task!

Once you have done this, fill in your space on the table and write the following in your book:

My height = 165cm (or 1m and 65cm if you did this)

Then choose a friend's height to write in your book - write down their name and height,

Then work out who is taller using < > =

Example: My height **>** Sally's height
165cm   1m and 24cm

Who is the **tallest** child in this class?

Who is the **shortest** child in this class?

Now let's **compare**!

Now let's compare!

_____ is taller than _____.

_____ is shorter than _____.

_____ is taller than _____.
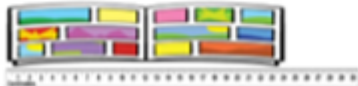
_____ is shorter than _____.

Task time!

1. **True or false?**

100m is the same as 10cm.

Explain your answer.

2. Miss Mathews says that the length of your right foot is the same length as the distance from your wrist to your elbow. **Work it out.**

3. Using a ruler, measure the length of **5** books to the nearest **mm**. Record your results in a table, then compare and order them from longest to shortest.

4. **Four friends are building towers.**

Jane's tower is 32cm.

Tara's tower is 40cm.

Caleb's tower is 98cm.

Emma's tower is 12cm.

Order the children's towers from biggest to smallest.

And lots of challenges at the front of the classroom!

Let's recap!

Who is the tallest in Year 3?
Who is the shortest in Year 3?

_____ is taller than _____.

_____ is the same height as than _____.