

Can I compare lengths?

Year 3 Tuesday 2nd February 2021

Watch the video

- <https://vimeo.com/425555865>
- Now complete the questions on the next slides

Compare lengths



1 Write $<$, $>$ or $=$ to compare the lengths.

a) 60 mm ○ 6 cm c) 5 cm ○ 45 mm

b) 1 m 50 cm ○ 115 cm d) 100 mm ○ 1 m

How did you work this out?



2 Eva, Mo, Alex and Dexter have each built a tower.

Use the table to complete the sentences.

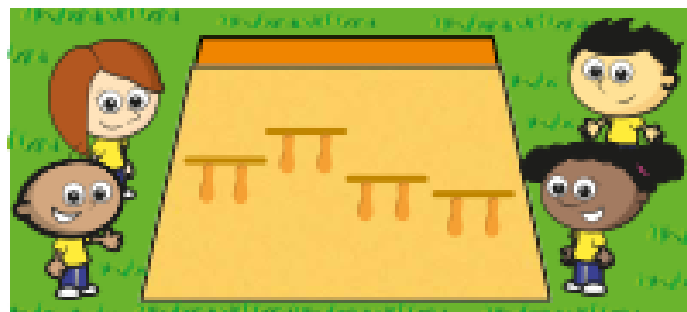
Child	Height of tower
Eva	1 m 5 cm
Mo	135 cm
Alex	1 m 45 cm
Dexter	1 m 25 cm

- a) _____'s tower is the tallest.
 b) _____'s tower is the shortest.
 c) Mo's tower is _____ than Dexter's.
 d) Eva's tower is _____ than Alex's.

3 Write the following lengths in order from shortest to longest.

160 cm	950 mm	1m 50 mm	200 cm	1 m 25 cm
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
shortest		longest		

4 Jack, Tommy, Rosie and Whitney have a jumping competition.



Here are the results.

Jack	Tommy	Rosie	Whitney
870 mm	105 cm	1 m and 30 mm	1 m and 10 cm

The person who jumped the furthest wins the competition.
 Put the children in order from 1st to 4th place.

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
1st	2nd	3rd	4th

- 5 Measure the height of four of your classmates.

Measure their foot length and then complete the table.

Name	Height in cm	Foot length in cm

What have you found? Do taller people have longer feet?

- 6 Measure the height of four of your classmates.

Measure how far they can jump and then complete the table.

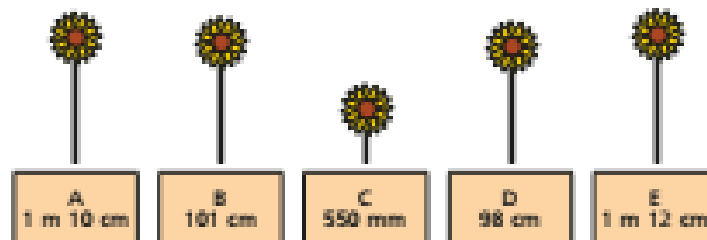
Name	Height in cm	Jump length in cm

Talk about what your results show.

Can taller people jump further?

- 7 Teddy, Mo, Amir, Dara and Annie have each grown a sunflower.

Use the clues below to work out which sunflower belongs to which child.



My sunflower is twice as tall as Teddy's.

Amir

My sunflower is less than 1 m tall.



Mo

My sunflower is 3 cm taller than Mo's.



Dara

My sunflower is the tallest.



Annie

Write the owner of each sunflower.

sunflower A: _____

sunflower D: _____

sunflower B: _____

sunflower E: _____

sunflower C: _____

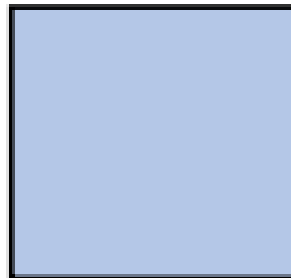
True or False?

Compare lengths

Beth measured 2 sides of a square.

She measured one side using mm and the other with cm.

The numbers were different.



ANSWER sheets

- Please check your answers using the answer sheets on the next slide.
- If you have made a mistake, can you explain what you did wrong and what you should have done instead?

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a) 60 mm $=$ 6 cm d) 5 cm $>$ 45 mm

b) 1 m 50 cm $>$ 115 cm e) 100 mm $<$ 1 m

How did you work this out?



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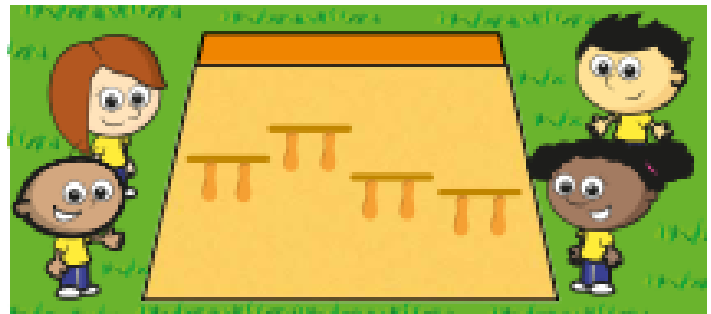
Child	Height of tower
Eva	1 m 5 cm
Mo	135 cm
Alex	1 m 45 cm
Dexter	1 m 25 cm

- a) Alex's tower is the tallest.
 b) Eva's tower is the shortest.
 c) Mo's tower is taller than Dexter's.
 d) Eva's tower is shorter than Alex's.

3 Write the following lengths in order from shortest to longest.

160 cm	950 mm	1 m 50 mm	200 cm	1 m 25 cm
<u>950 mm</u>	<u>1 m 50 mm</u>	<u>1 m 25 cm</u>	<u>160 cm</u>	<u>200 cm</u>
shortest			longest	

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Here are the results.

Jack	Tommy	Rosie	Whitney
870 mm	105 cm	1 m and 30 mm	1 m and 10 cm

The person who jumped the furthest wins the competition.

Put the children in order from 1st to 4th place.

<u>Whitney</u>	<u>Tommy</u>	<u>Rosie</u>	<u>Jack</u>
1st	2nd	3rd	4th

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Name	Height in cm	Foot length in cm

What have you found? Do taller people have longer feet?

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Use the clues below to work out which sunflower belongs to which child.



Amir

My sunflower is twice as tall as Teddy's.



Dora

My sunflower is 3 cm taller than Mo's.

My sunflower is less than 1 m tall.



Mo

My sunflower is the tallest.



Annie

Write the owner of each sunflower.

sunflower A: Amir

sunflower D: MO

sunflower B: Dora

sunflower E: Annie

sunflower C: Teddy

True

All sides of a square are equal but if you measure in different units, you will get a different answer.

