Teacher material ”How much larger?” Version 1.0

Material can be found at ”**newmero academy**”: www.newmero.net

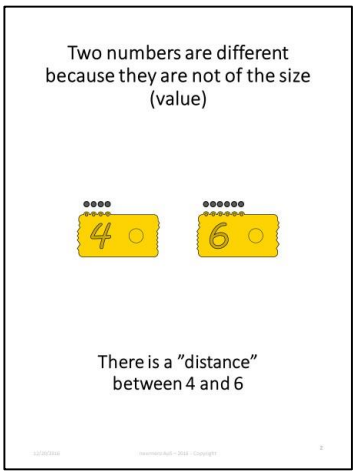
Age: 4-6 years

Purpose of the exercise:
- To teach children that two numbers are different because their values are different, not because they have different ”names”.
- To teach children to find the distance between two small numbers – ”how much bigger is one number than the other?”
- Get the first understanding of the notion of subtraction (“minus”).

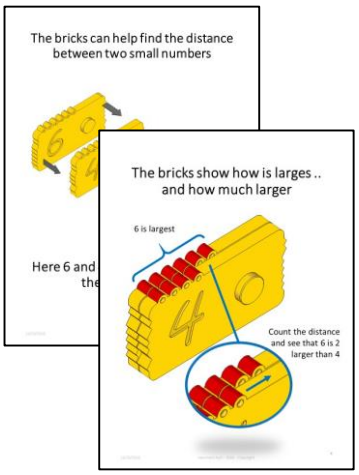
What should the children discover themselves:
- The children should find out themselves that two small numbers are different because one is larger than the other – their “values” are different.
- The children should be able to explain that e.g. 7 is 3 larger than 4.
- The children should over time learn by heart that there is e.g. ”5 between 2 and 7” – i.e. in reality start to understand ”minus” between to small numbers.

How should the teach be helpful without giving the answers directly:
- The teacher can explain how the brick is designed to help the children figure out the distance between two small numbers.

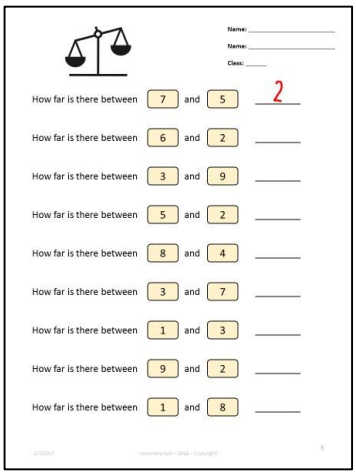
Which material should be used for the lecture:
- Only the yellow bricks should be used (1s).
- Some printouts for distribution – The “Pupil material” pages.
- A smartboard/large screen could be used to show the following pages so the children know how to use the bricks to complete the “Pupil material“ pages.



Start by explaining that two numbers are different because one is ”more” than the other

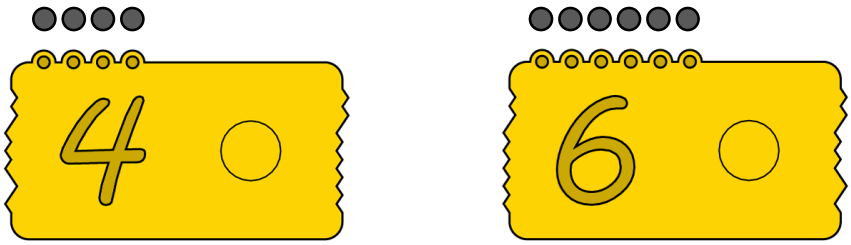


.. Then show next how the bricks help finding the difference as a “distance”



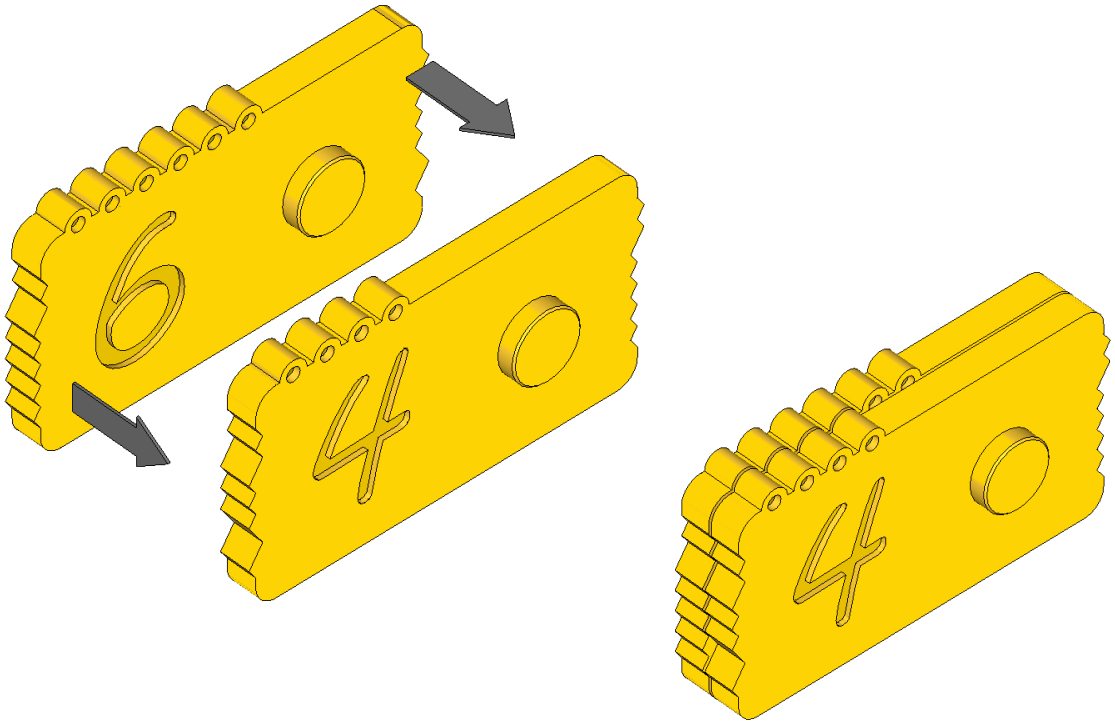
.. and show examples of how the answers are noted down

Two numbers are different because they are not of the size (value)



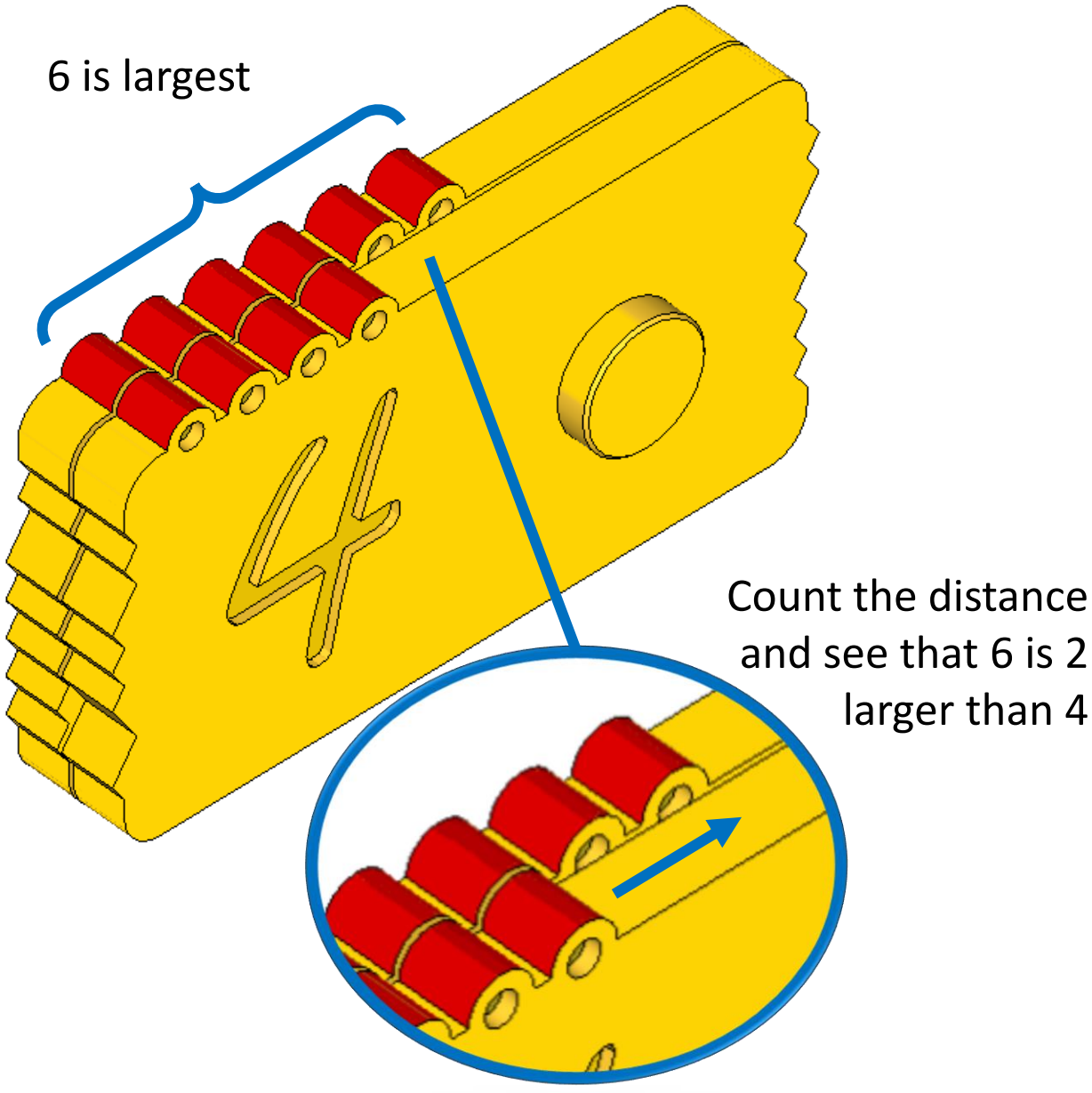
There is a ”distance” between 4 and 6

The bricks can help find the distance between two small numbers



Here 6 and 4 are stacked – you use the stacking knob

The bricks show how is larges .. and how much larger



Name: _____

Name: _____

Class: _____

How far is there between 7 and 5 2

How far is there between 6 and 2 _____

How far is there between 3 and 9 _____

How far is there between 5 and 2 _____

How far is there between 8 and 4 _____

How far is there between 3 and 7 _____

How far is there between 1 and 3 _____

How far is there between 9 and 2 _____

How far is there between 1 and 8 _____