

Journal Time: Measuring with Different Units

Have you ever measured something with your hand, then with a ruler, and gotten two different numbers?

Measure the same book two ways: once with paperclips, once with centimetres. Write both numbers. Explain why the numbers are different, even though the book did not change ([Skills](#), [Understanding](#)).

Where to start:

- How many paperclips long is your book?
- How many centimetres long is your book?
- Which number is bigger? Why do you think that happened?
- Did you tile or iterate your paperclips, with no gaps or overlaps ([Knowledge](#))?

Stretch:

Pick a small object. Estimate its length in centimetres first, using a referent like your fingernail ([Skills](#)). Then measure it. Write how close your estimate was.