

SCALE DRAWINGS



1 cm on the map equals
200 000 cm, which is
2 000 metres (m) or
2 kilometres (km)

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A **scale ratio** of 1:100 means the real length is 100 times greater than the length measured on the diagram.

A **scale drawing** has exactly the same shape as the original object, but a different size.



If the model is 90 cm long and the scale is 1:50, how long is the actual boat?

$90 \times 50 = 4500 \text{ cm}$
which is 45 m (metres)

Scale ratios generally begin with a 1. The 2nd number is called the **scale factor**. *In the example above, the scale factor is 50.*