203: Electrical installations technology  
**Worksheet 4: Symbols and scales**

**Answer guide**

Try the following problems.

1. **The length of a motorway is 600 kilometres.  If 0.5cm represents 50 kilometres, calculate the length of the motorway on the map.**

**6cm**

1. **The dimensions of a building are 250 metres by 120 metres. If 10mm represents 20 metres on a scale drawing, calculate the dimensions of the building on the drawing.**

**125mm x 60mm**

1. **If one centimetre represents 10 metres, calculate the dimensions used to make a scale drawing of a room 20 metres by 40 metres.**

**2cm x 4cm**

1. **If on a scale drawing a particular dimension is 120mm, using a scale of 1:10 how many metres does this represent?**

**1.2 metres**

1. **If 1cm represents 75 kilometres on a map, calculate how many centimetres will represent 1,500 kilometres.**

**20cm**