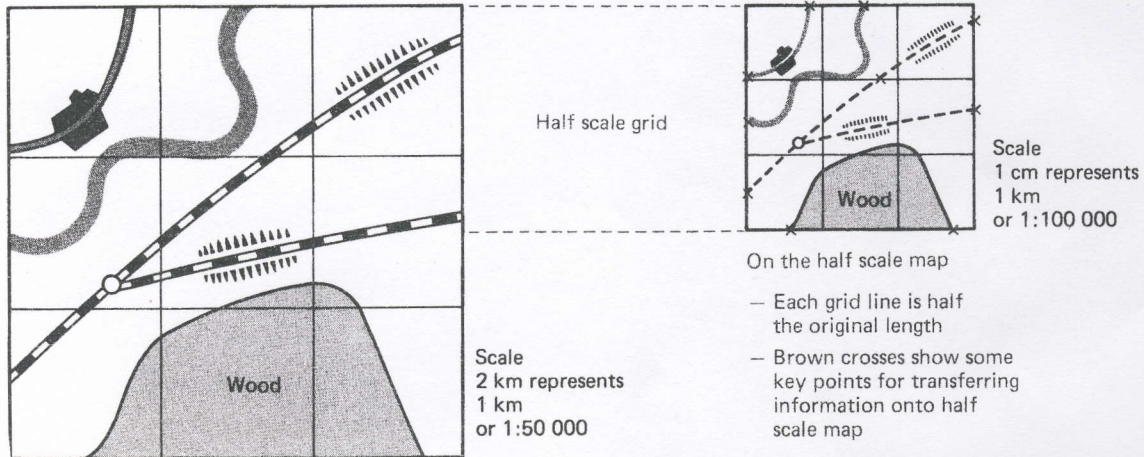# Making maps smaller (or larger)

The map grid helps when we need to draw a smaller or larger version of a map. This is called *map reduction* or *map enlargement*. The example below shows what a half-scale map would look like. Notice that the grid is simply drawn at half the size. How do you think you would make the map twice as large?????
(Yes......... you would make the grids twice the size.)

Half scale grid

Scale
1 cm represents
1 km
or 1:100 000

On the half scale map

— Each grid line is half
  the original length

— Brown crosses show some
  key points for transferring
  information onto half
  scale map

Scale
2 km represents
1 km
or 1:50 000

Wood

By noting where line features, such as roads, rivers or the coast cross particular grid lines, we can transfer information from the larger to the smaller map. Point features such as buildings, can be accurately located using a six-figure grid reference, as it will be the same on both maps.

Activity
- Make a half-scale copy of the map below.
- Draw the half-scale grid first, and then transfer the rest of the information
- You will not be able to be quite as detailed as on the full scale map
- Remember – add the corrected scale to your map

Key

Windmill

Lighthouse

Marsh

Beach

Wood

Road

Settlement

River

N

0   1 km

2 cm represents 1 km