4 Scale and dimensions

A scale drawing is a drawing that shows a real object with accurate sizes except they have all been reduced or enlarged by a certain amount (called the scale). The scale is shown as the length of the drawing followed by a colon and then the matching length on the real object.

For example, if a drawing has a scale of 1 : 10, then anything drawn with the size of 1 would have a size of 10 in the real world. So a measurement of 150 mm on the drawing would be 1 500 mm on the real object.

Activity 4 Scale and dimensions

You will need:

- grid paper
- a ruler
- a pencil
- an object to draw.

You do:

1. Draw a plan of a bedroom using a scale of 1 : 200. Draw the plan on the grid lines as shown in **FIGURE 7**.
2. Each block on the grid is equal to 1 cm. Use this information to calculate the real size of the bedroom.

Adam draws a plan of his bedroom using a scale of 1 : 200. Find the actual lengths of the sides of his bedroom.
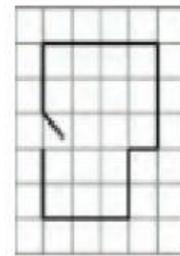

FIGURE 7   A scale drawing of a bedroom

Submit your drawing to the platform after using the online geometry drawing board.

Now you are going to follow the instructions given above and upload your drawing to the platform. Using the online geometry link for your drawing.