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.

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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.

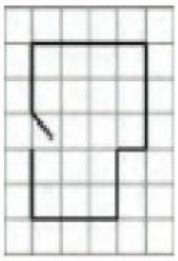


FIGURE 7 A scale drawing of a bedroom

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

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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.

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