

## Making a Plan

Today we are going to make a plan of a bedroom. Below is a list of the room size and all the main pieces of furniture. First we need to calculate how big we need to draw them at a scale of 1: 25 (said '1 to 25). This means we need to divide the real size by 25 to make the plan 25 times smaller!

### **The Room**

The size of the real bedroom is 5 metres by 3.5 metres. As there are 100 centimetres in a metre, this is the same as saying the room is 500 cm by 350 cm. Calculate the size in centimetres that you will need to draw the room below:

$$500 / 25 = \dots\dots\dots$$

$$350 / 25 = \dots\dots\dots$$

Draw a rectangle this size on plain paper.

### **The furniture**

Now we need to add some furniture to our room. Again divide each number by 25 to calculate how big we need to make each piece of furniture.

$$\text{Bed} = 1 \text{ metre} \times 2 \text{ metres} = \dots\dots\dots$$

$$\text{Wardrobe} = 150\text{cm} \times 75 \text{ cm} = \dots\dots\dots$$

$$\text{Desk} = 150\text{cm} \times 50\text{cm} = \dots\dots\dots$$

$$\text{Chair} = 50 \times 50 \text{ cm} = \dots\dots\dots$$

$$\text{Toy box} = 50 \times 100 \text{ cm} = \dots\dots\dots$$

Draw each of these pieces of furniture. This will be easiest on squared paper, but you can use plain if that is all you have. Make sure you label or colour each thing so you know what it is.

### **Designing your room**

Now place the furniture in your room. Make sure you are happy with how it is placed.

You can also add a door (1 metre wide) and some windows, and extra furniture if you wish.