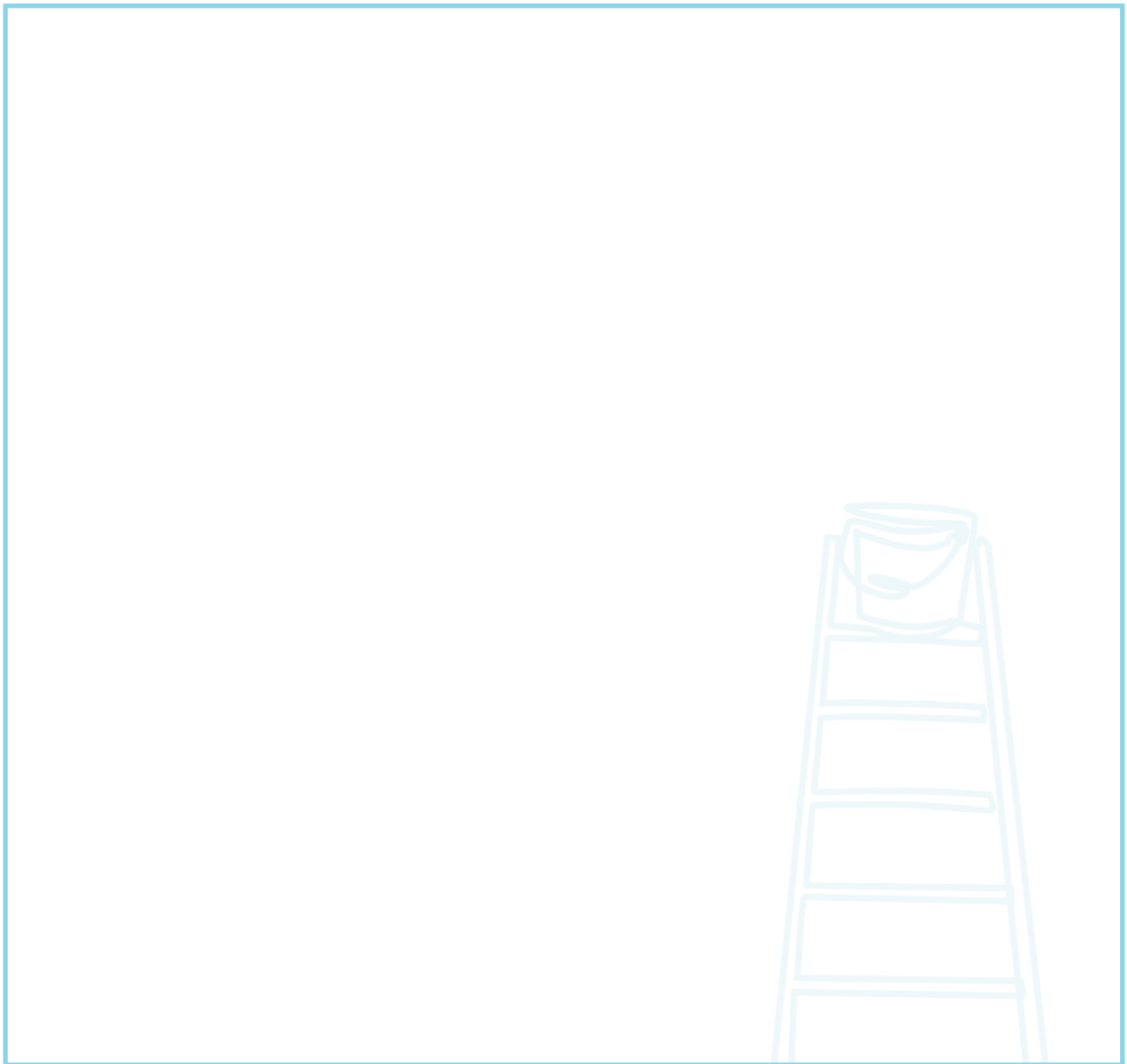


28. Geometry and Measures

Studying floor plans to find a flat that offers good value for money.

Amanda is looking for a new flat to rent after her current lease expires. She has narrowed down her options to two flats that are both in convenient parts of town. As such, she is basing her decision on factors such as total size, value for money, her ability to bring her existing furniture with her, and whether she can redecorate the flat to her taste.

1. Review the floor plans and work out which flat is larger in m^2 .



2. The rent is advertised for Flat 1 as £1,400 per month and for Flat 2 as £1,700 per month. However, after speaking to the current residents of each flat, Amanda finds out that they are currently paying £1,250 per month for Flat 1 and £1,500 per month for Flat 2. What percentage has each landlord increased rent by from the levels that current residents are paying?

3. What was the rent increase for each flat per m²?

4. Based on your own review of the floor plans, what are some qualitative factors that you believe Amanda should consider when comparing the size of each flat?

5. Amanda decides that Flat 1 is not decorated to her taste. Her landlord agrees that Amanda can repaint the flat as she wishes in exchange for a discount on her first month of rent. Assuming that the ceiling height is 2.6m and that 1L of paint covers 6m^2 , use the floor plans to calculate how much paint will Amanda need to use to redecorate the living room and bedroom?

6. Amanda has furniture from her current flat that she plans to bring with her but she is not sure whether it will fit in either Flat 1 or Flat 2. Below are the measurements for her bedroom furniture set:

Bed 135 x 190 cm

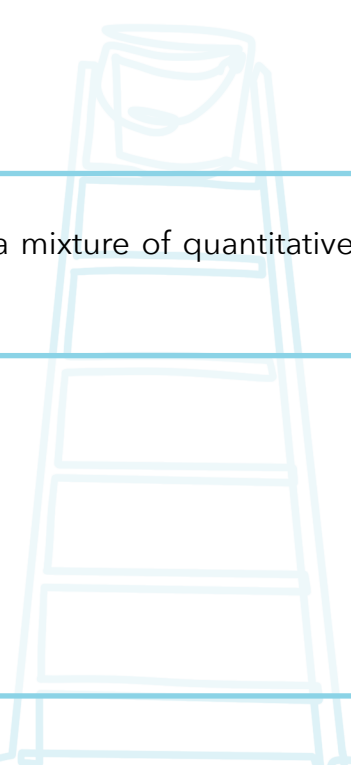
Wardrobe: 117 x 190 cm

Chest of drawers: 70 x 83 cm

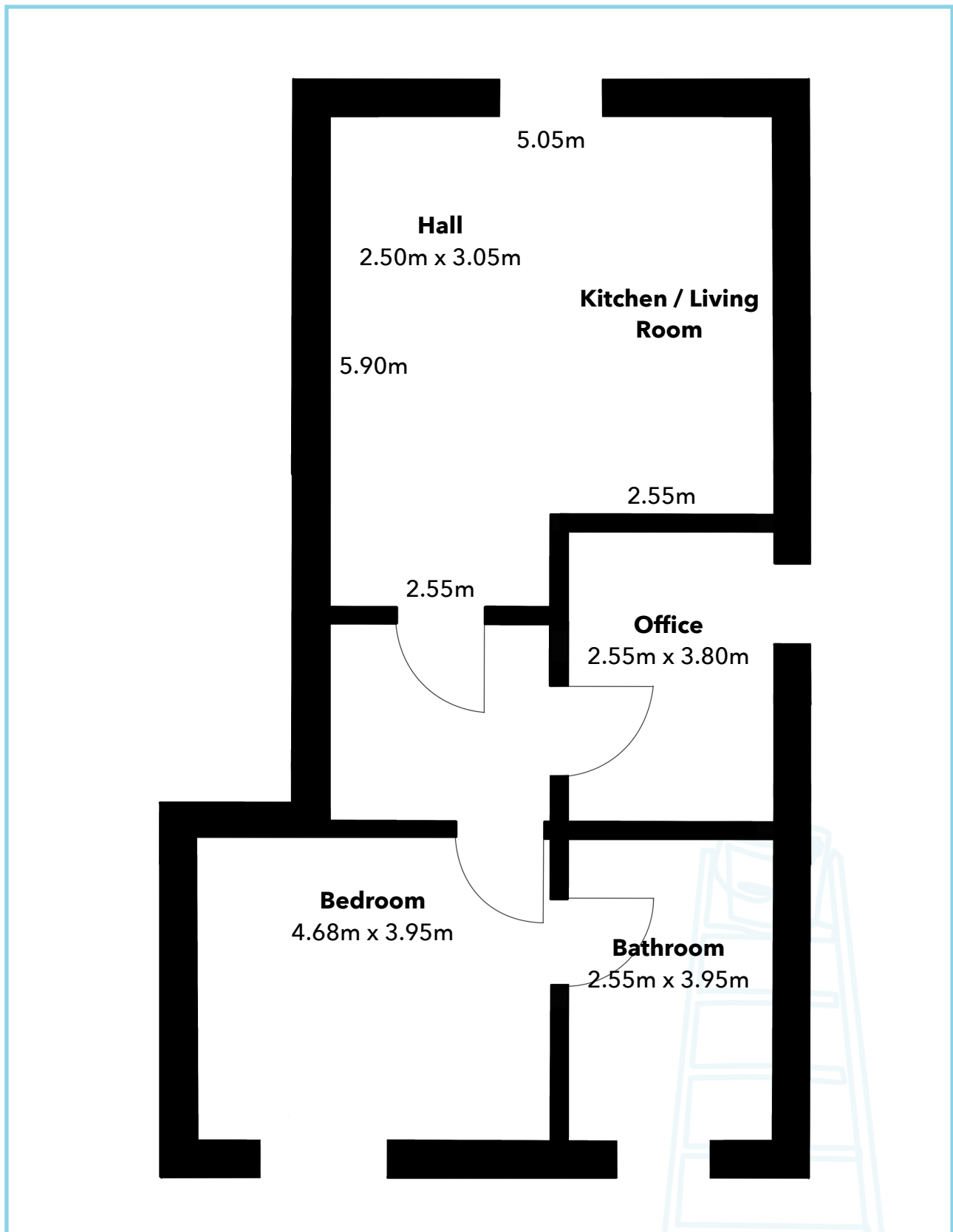
Desk: 105 x 60 cm

Taking into consideration where these items of furniture are likely to be located in a flat, which flat would best suit this furniture?

7. Which flat do you think Amanda should choose? Use a mixture of quantitative and qualitative reasons to support your choice.



Flat 1 floor plan



Flat 2 floor plan

