

Exam questions L1

Q1. Rashid is going to buy a table and a display unit.   
He wants to work out where to put them in his dining room.

The table needs

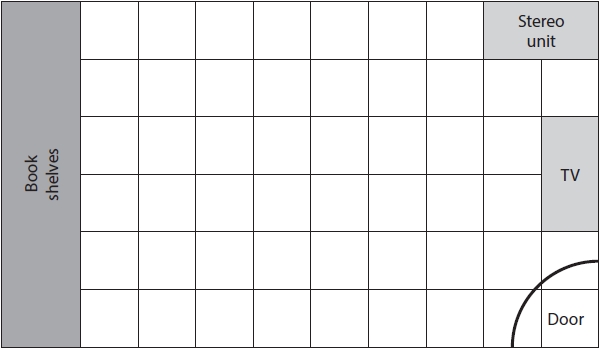
    a rectangular space 200 cm by 150 cm.

The display unit needs

    a rectangular space 1 m by  m  
    the longest side against a wall.

Draw the table and display unit on the plan for Rashid.

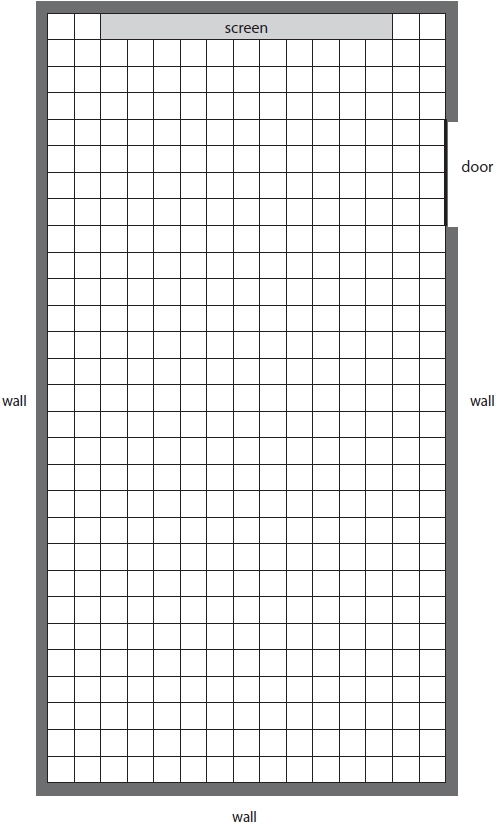
**(4)**



Key:     1 square on the grid is 50 cm by 50 cm in the dining room

**(Total for question = 4 marks)**

Q2. Tim wants to put two sofas in the shed.   
He draws a plan of the floor space on this grid.



Key:     1 square on the grid is 25 cm by 25 cm on the floor of the shed.

Each sofa needs a rectangular space 2 m by 1 m.

There must be a gap of at least

    75 cm between any sofa and the walls  
    50 cm between sofas  
    3 m between the screen and the sofa nearest to the screen.

The longest side of each sofa must face the screen.

Draw the space for each sofa on the grid. **(4)**

Q3.

Laura is going to put the play house in her garden.

The play house needs

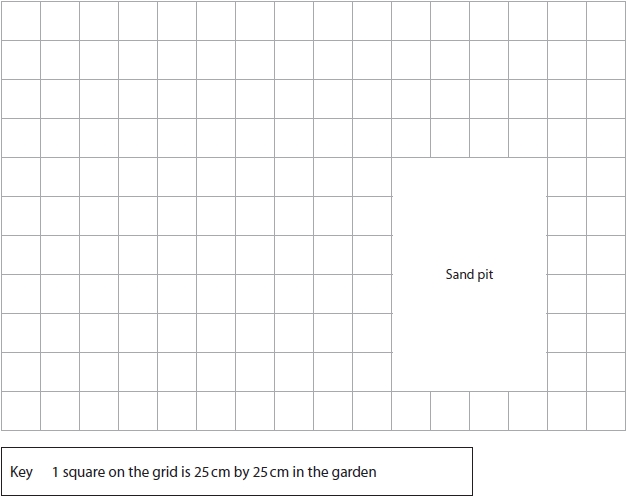
   a rectangular space 150 cm by 200 cm  
   to be at least 1 m away from the sand pit.

Laura draws a plan of her garden on a grid.

(b)  Draw a space for the play house on the grid.

Remember to use the key.

**(3)**



Q4.

Eric wants to put some hair washing stations in a different room.

A washing station needs one sink and one chair.

The chair needs:

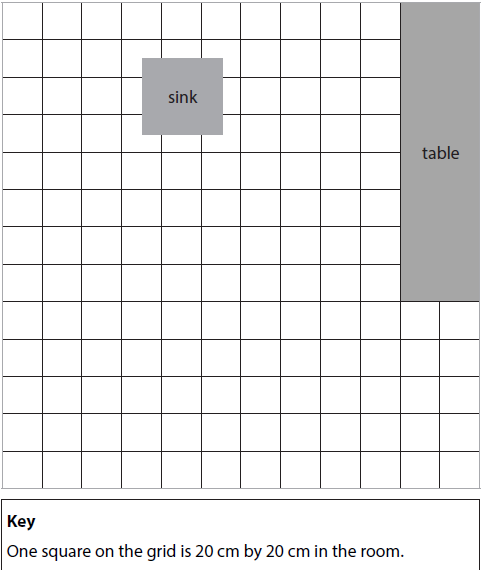
**•** a rectangular space 60 cm wide and 110 cm long

**•** one of its shorter sides to go along a side of the sink

**•** to have at least 50 cm of free space around its other sides.

Eric starts to draw a plan of one washing station on a grid.

(b) Draw a space for the chair on the grid. **(3)**



Q5.

Sajid wants to put a desk and a coffee table in his new office.

The desk is in the shape of a rectangle 100 cm by 160 cm.

Sajid wants to put the desk:

**•** against a wall

**•** at least 60 cm away from the window.

The coffee table is in the shape of a square with side length 80 cm.

He wants 40 cm of clear space around the coffee table.

Sajid draws this plan of the office on a grid.

