Problem of the Week

Problem A

Painting Plans

Judith and James want to repaint their dining room. They have a floor plan of the dining room that shows the dimensions of the rectangular room as well as the location of the doorways.

The walls are each 3 metres high and the doorways are each 2 metres high and 1 metre wide. They do not want to paint the doorways.

(a) For each wall, draw a diagram showing the area that needs to be painted. Show the dimensions of the walls and the doorways on each diagram.

(b) Calculate the total area that will be painted.