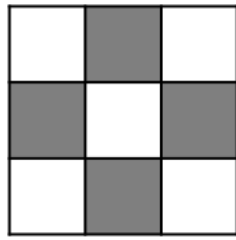


4a. Julia is making a patterned sponge cake.



She continues her pattern so the cake is 5 squares wide and 4 squares long. What is the area of white sponge? What is the area of grey sponge?



PS

4b. Sam is making patterns on a patchwork quilt.

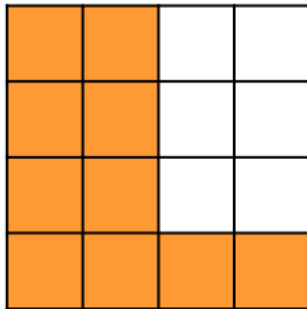


He continues his pattern so it is 6 squares wide and 6 squares long. What is the area of white patches? What is the area of grey patches?



PS

5a. John is trying to work out if he has enough stained-glass panes to make this shape on a window. He has 15 panes.

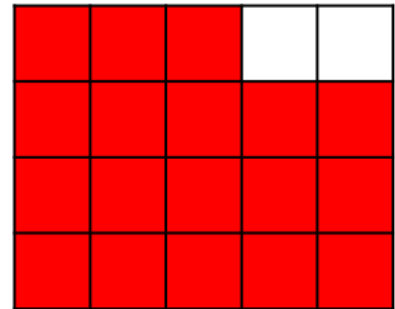


Does he have enough panes? Explain how you know.



R

5b. Molly is trying to work out if she has enough tiles to make this shape on a gameboard. She has 16 tiles.



Does she have enough tiles? Explain how you know.

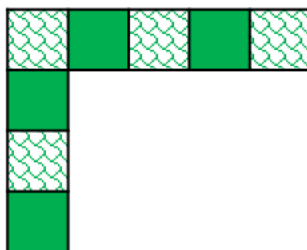


R

6a. Jack has started making a mosaic using two different tiles.



To complete the pattern, I will need 12 more patterned tiles and 8 more plain tiles.



Is he correct? Explain your answer.

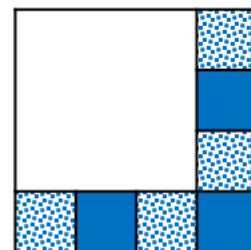


R

6b. Jude has started tiling on his kitchen floor using two different tiles.



To complete the pattern, I will need 4 more spotted tiles and 4 more plain tiles.



Is he correct? Explain your answer.



R