

Kitchen tiles

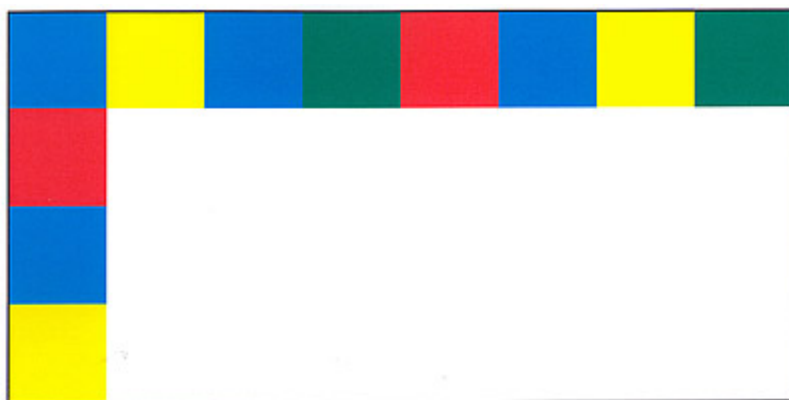
Annotation

Josie is able to use an array structure to work out the area of a rectangle. She understands that the number of rows in one column of the rectangle determines the number of rows in the whole rectangle, and she uses multiplication to calculate the rectangle's area.

Problem: Kitchen tiles

The teacher tells the student that the kitchen floor is to have tiles laid down on its surface. The teacher shows the student the array model and asks:

Some tiles have already been laid on the kitchen floor. How many tiles will be needed to cover the whole floor?



Student Response

Josie: 32 square tiles.

Teacher: How did you work that out?

Josie: I counted the number along the top and the number down the side, and I multiplied them. It's 4 times 8.