



Lesson 11

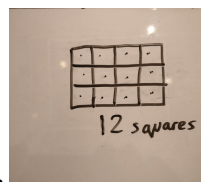
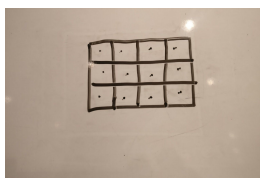
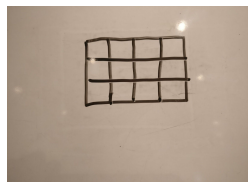
LO: To find the area of a rectilinear shape

Success Criteria:

1. Look at your shape
2. Add all of the sides
3. Write the answer

Remember: Carefully count up all the sides

Model



Now you try... What are the areas of the shapes below

A. A 3x3 grid of squares.

B. A staircase shape made of 7 squares: 3 in the top row, 2 in the middle, and 2 in the bottom.

C. A horizontal strip of 6 squares.

D. A staircase shape made of 10 squares: 3 in the top row, 3 in the middle, and 4 in the bottom.

E. A staircase shape made of 10 squares: 3 in the top row, 3 in the middle, and 4 in the bottom.

Canonbury Home Learning

Year 4 Maths

Lesson 11

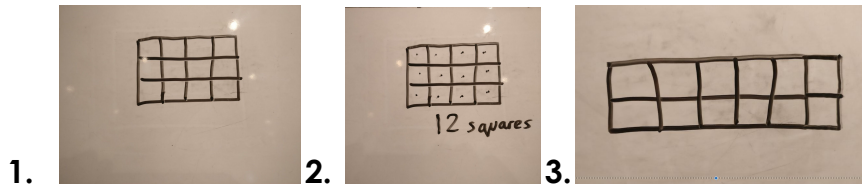
LO: To find the area of a rectilinear shape

Success Criteria:

- | |
|-------------------------------------|
| 1. Look at your shape |
| 2. Count the squares |
| 3. Make another shape the same area |

Remember: Carefully count up all the sides Watch out for the missing sides

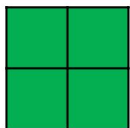
Model:



Task 1

Practice: Add the sides up carefully

1.

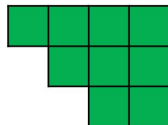


Rearrange the files to make a rectangle.

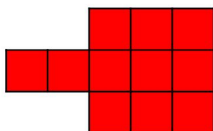


2.

Rearrange the files to make a different rectangle.



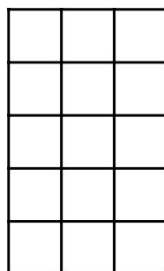
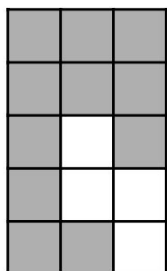
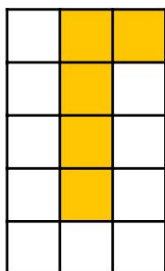
Rearrange the files to make a different 8-sided shape.



Rearrange the files to make a different 8-sided shape.

3.

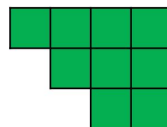
8a. Brad wants to create three different rectilinear shapes using 26 square tiles. He has completed two. Create a shape with the remaining tiles.



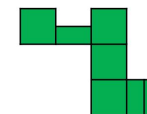
Task 2

Practice: Add the sides up carefully

1.

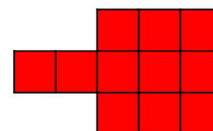


Rearrange the files to make a different 8-sided shape.

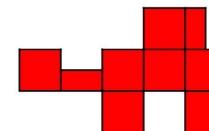


Rearrange the files to make a 10-sided shape.

2.



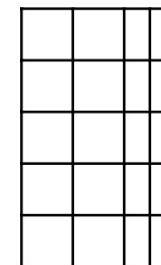
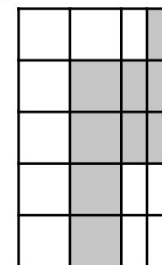
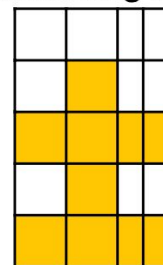
Rearrange the files to make a different 8-sided shape.



Rearrange the files to make a 12-sided shape.

3.

12a. Bruce wants to create three different rectilinear shapes using 15 square tiles and 16 half square tiles. He has completed two. Create a shape with the remaining tiles.



Task 3

Reasoning

Explain your answers.

4a. Jacob is using square tiles to make a shape. He says,



I can make a square using 16 tiles.

Is he correct? Prove it.

7b. Nathan is using square and half square tiles to make a shape. He says,



I can make a rectangle using 10 square tiles and 2 half square tiles.

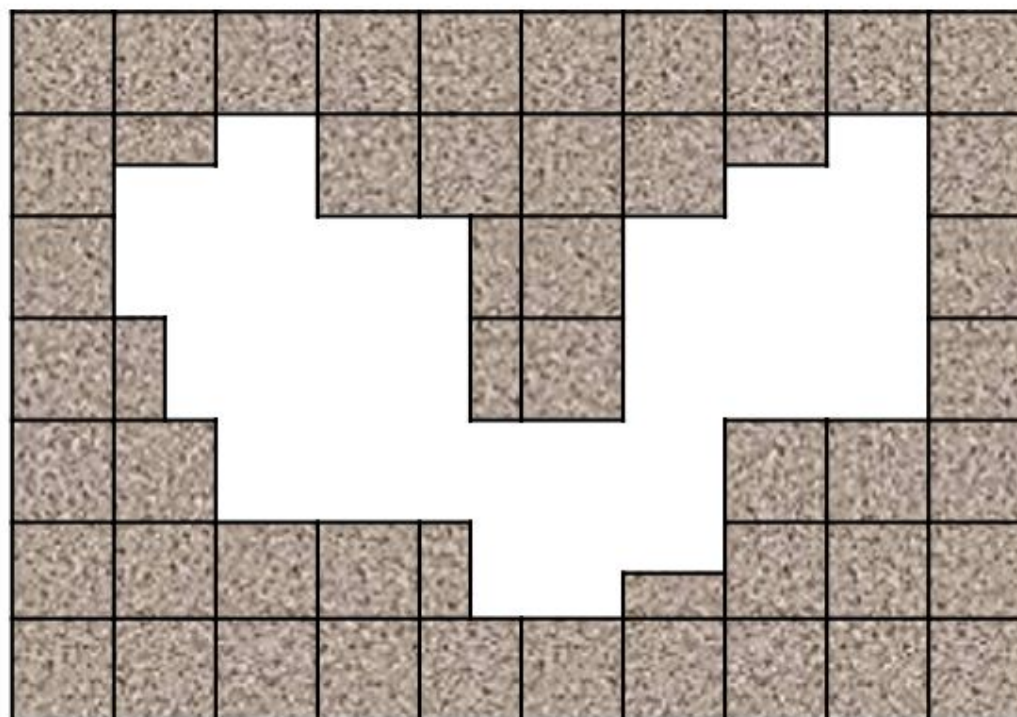
Is he correct? Prove it.

Task 4

Problem solving

2. Maintenance Mick is tiling his bathroom. So far, he has completed part of the wall below. He has 19 square tiles and 17 half square tiles left to complete the wall.

Use the tiles to complete the wall.



What is the smallest amount of tiles that can be used to fill the area?

