Mathematics

Calculate the area of rectangles

Mr Kelsall

What is area? When is it used?
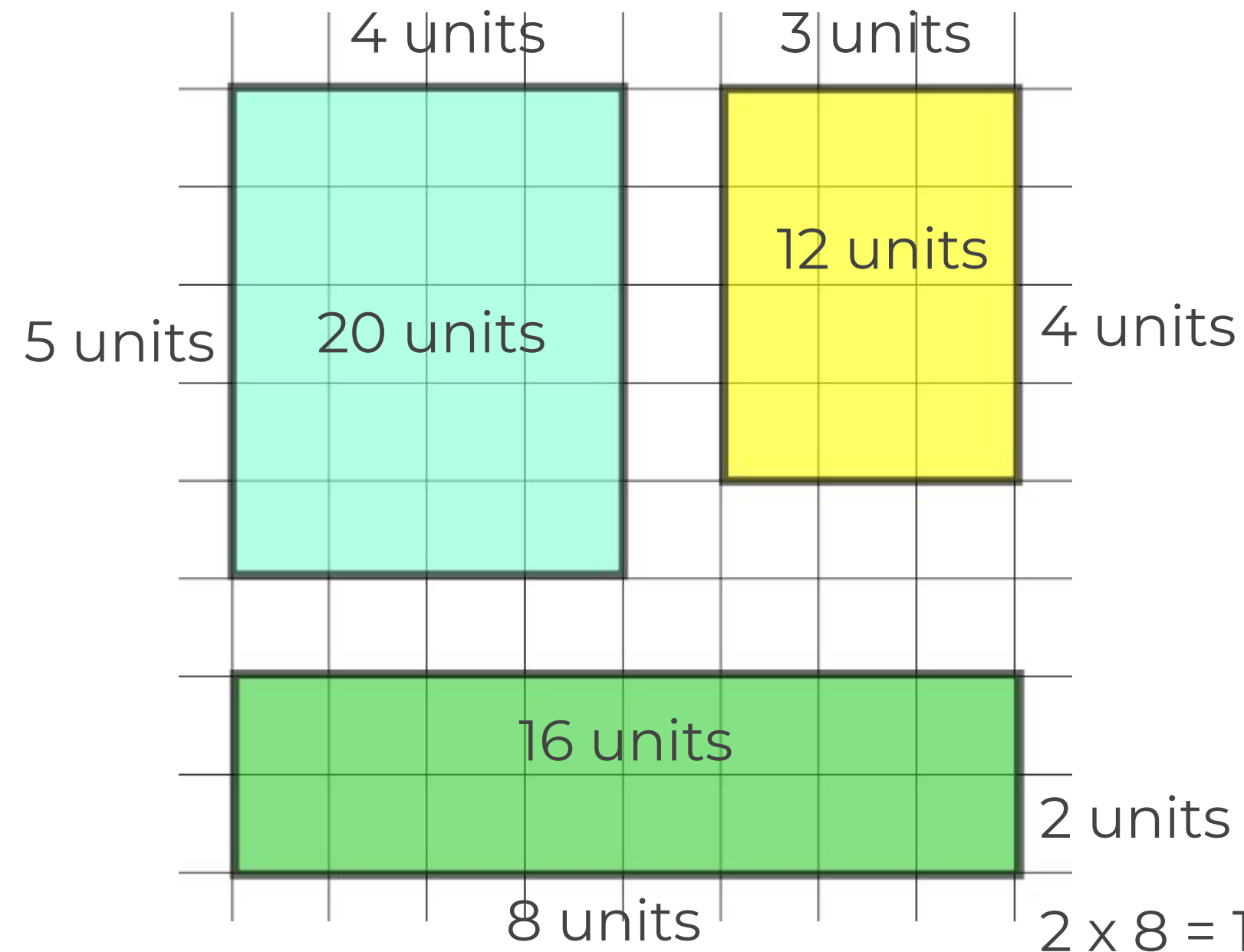
How is area different to perimeter?

How can we calculate the area of these rectangles?

$5 \times 4 = 20$ units^2

$3 \times 4 = 12$ units^2

4 units

3 units

12 units

5 units

20 units

4 units

16 units

2 units

8 units

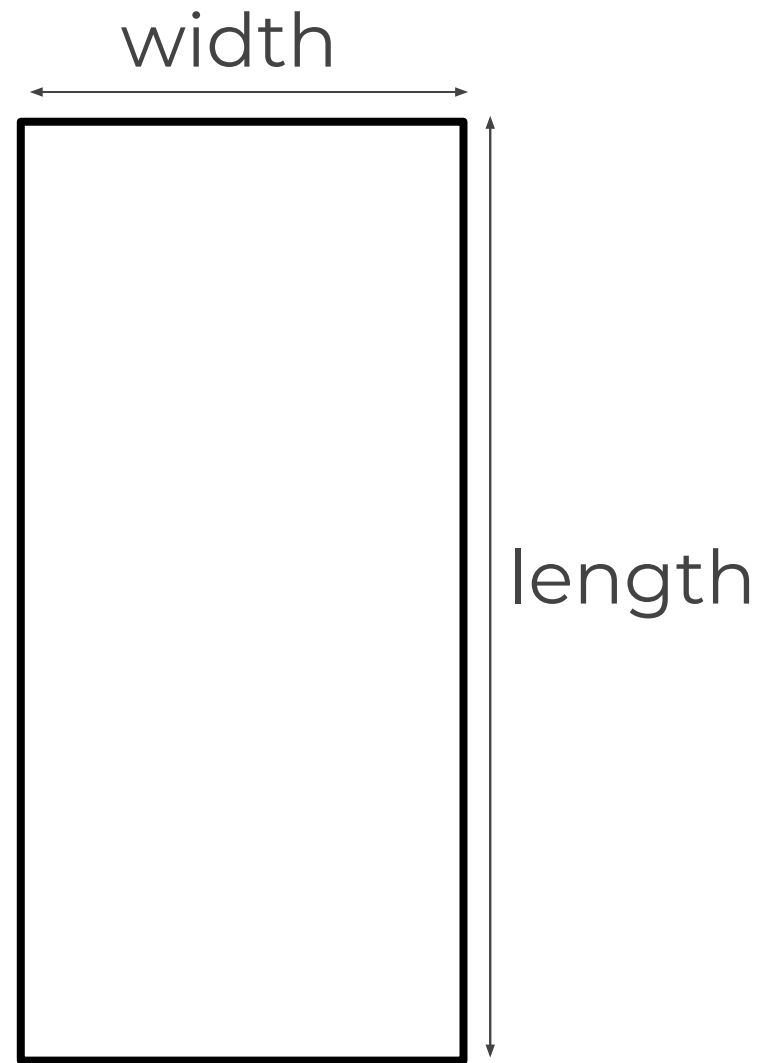$2 \times 8 = 16$ units^2

1. We could count the squares that the shape covers.

2. We could think of them as arrays and we can work out the number of squares in the array by multiplying the length by the width.

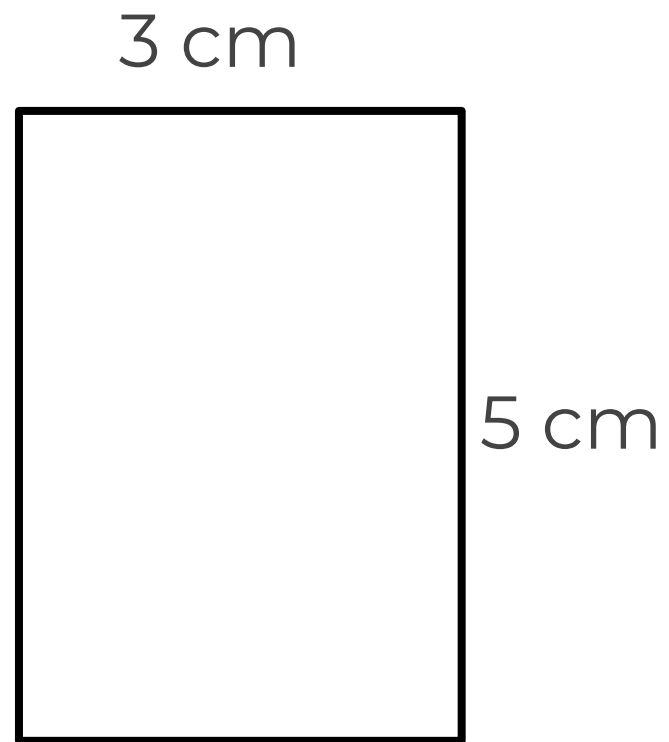# Can you apply our work on the previous slide to create a formula for the area of a rectangle?
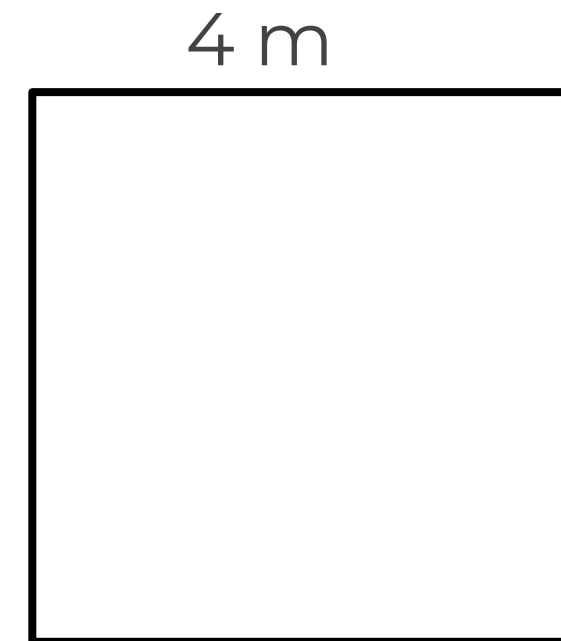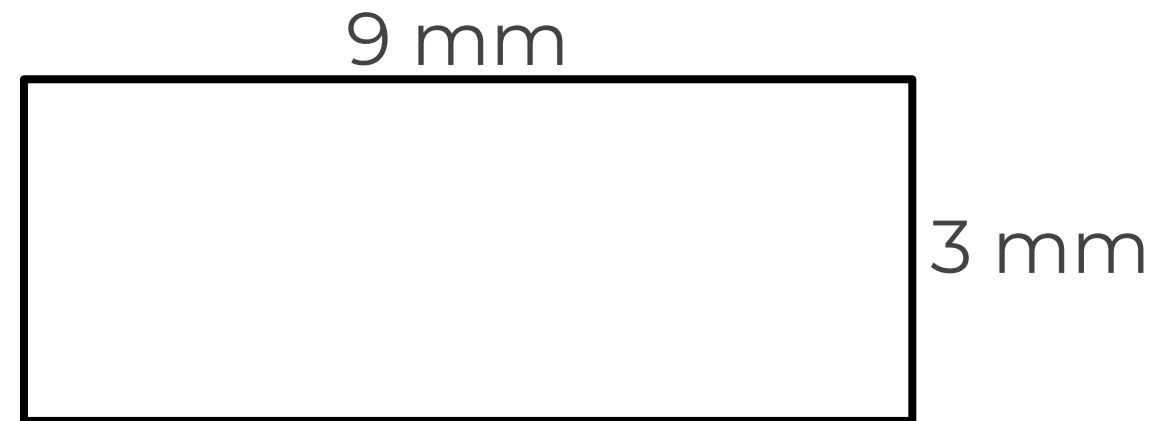
length x width = area

width

length

Calculate the area of the rectangles below

Remember to give your answer in units².
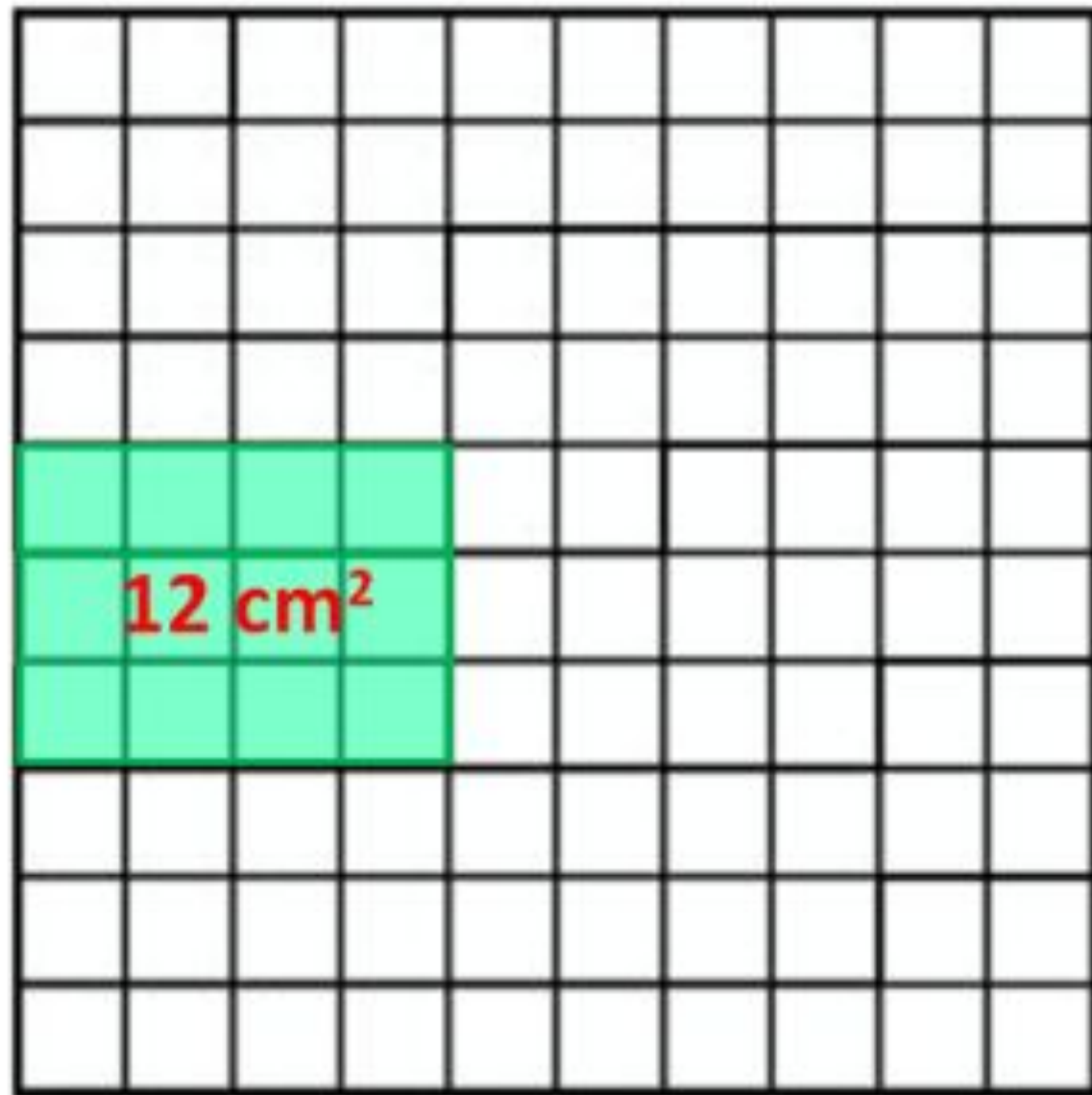
length x width = area

3 cm

5 cm

9 mm

3 mm

4 m

Example: 3 x 5 = 15 cm²

Independent task

Calculate the perimeter of the compound shape.

12 cm²

Close to 100

Roll a dice twice and draw a rectangle with side lengths matching the dice.
Record the area in cm^2
Keep going until you cannot fit a rectangle in for three rolls in a row.

At the end of the game work out the area of the grid that is filled and the area that is not filled.

EXAMPLE:

Source of all images : Mr Kelsall or Oak National Academy