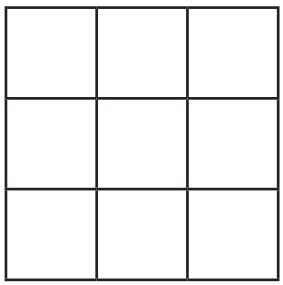
Investigating Perimeter and Area 1

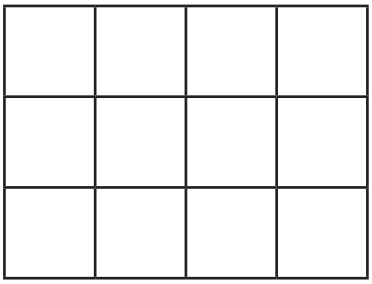
Recognise that shapes with the same areas can have different perimeters and vice versa.

There is only one rectilinear shape using 1 whole square.
Draw it and then write the area and perimeter.



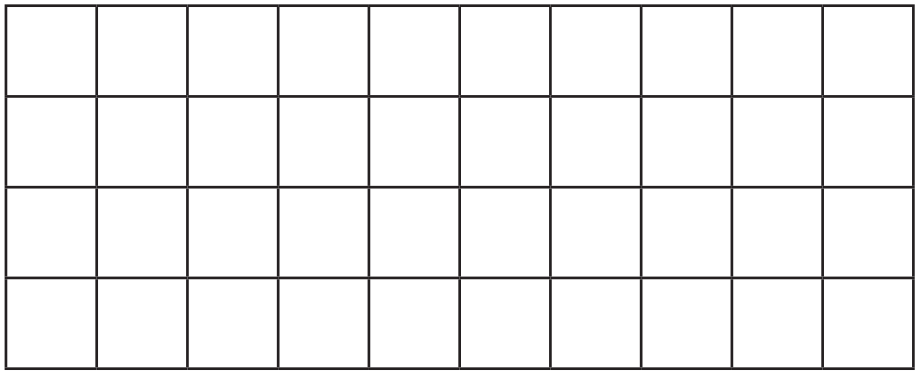
Area: _____ cm^2 Perimeter: _____ cm

There is only one rectilinear shape using 2 whole squares.
Draw it and then write the area and perimeter.



Area: _____ cm^2 Perimeter: _____ cm

Draw the 2 different shapes with 3 whole squares and write the area and perimeter.



Area: _____ cm^2

Perimeter: _____ cm

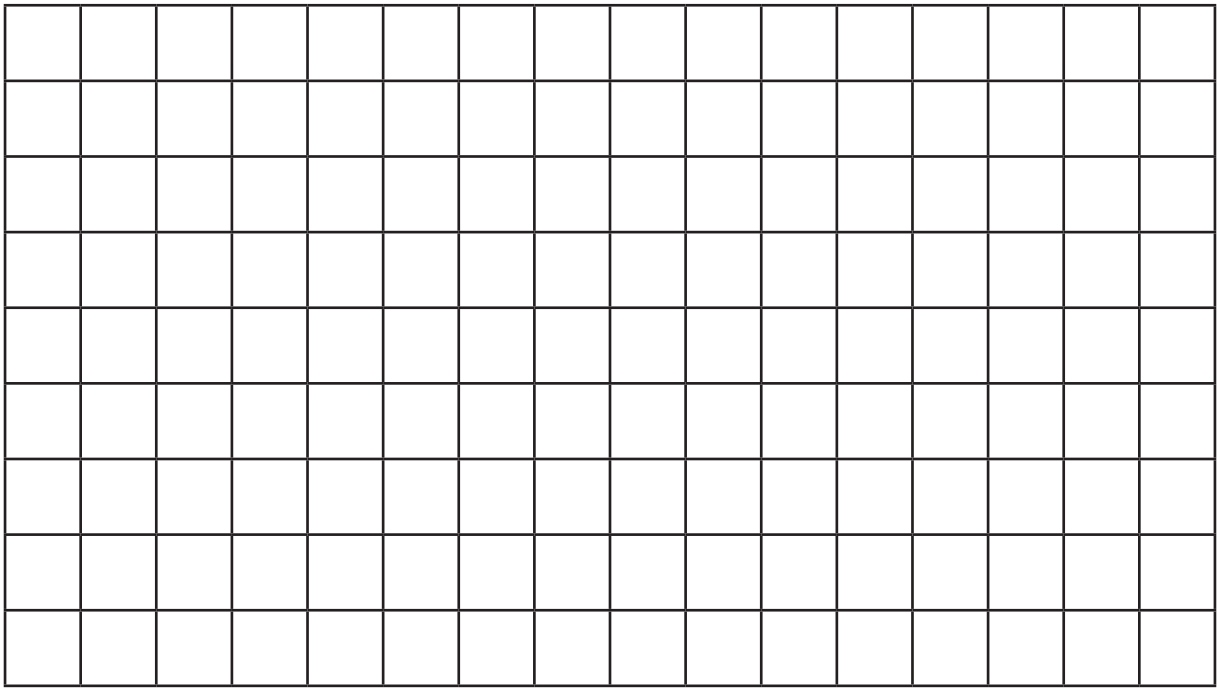
Area: _____ cm^2

Perimeter: _____ cm

What do you notice about the area and perimeter of these 2 shapes?

Investigating Perimeter and Area 1

Draw different shapes with 4 whole squares and write the area and perimeter in the table below.



Shape	Area	Perimeter

What do you notice about the area and perimeter of these shapes?

Can you explain why?

Investigating Perimeter and Area 1

Draw different shapes with 5 whole squares and write the area and perimeter in the table below.

Investigating Perimeter and Area 1

Shape	Area	Perimeter

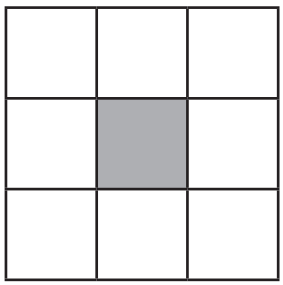
What do you notice about the area and perimeter of these shapes?

Can you explain why?

Perimeter and Area **Answers**

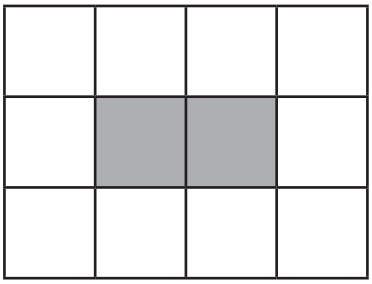
Recognise that shapes with the same areas can have different perimeters and vice versa.

There is only one rectilinear shape using 1 whole square.
Draw it and then write the area and perimeter.



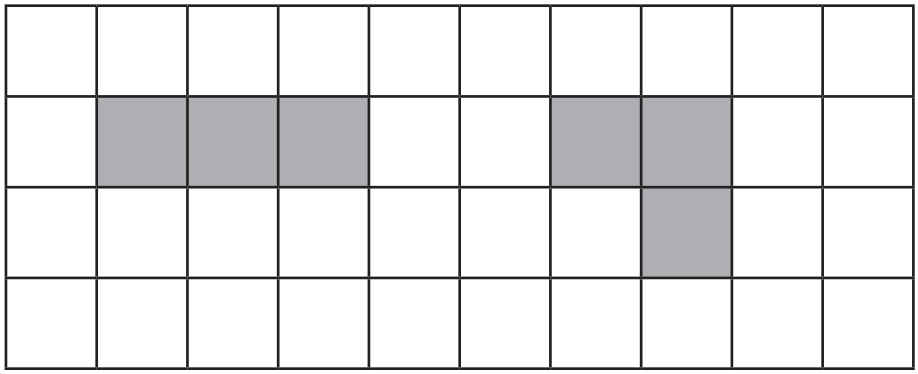
Area: **1** cm^2 Perimeter: **4** cm

There is only one rectilinear shape using 2 whole squares.
Draw it and then write the area and perimeter.



Area: **2** cm^2 Perimeter: **6** cm

Draw the 2 different shapes with 3 whole squares and write the area and perimeter.



Area: **3** cm^2

Perimeter: **8** cm

Area: **3** cm^2

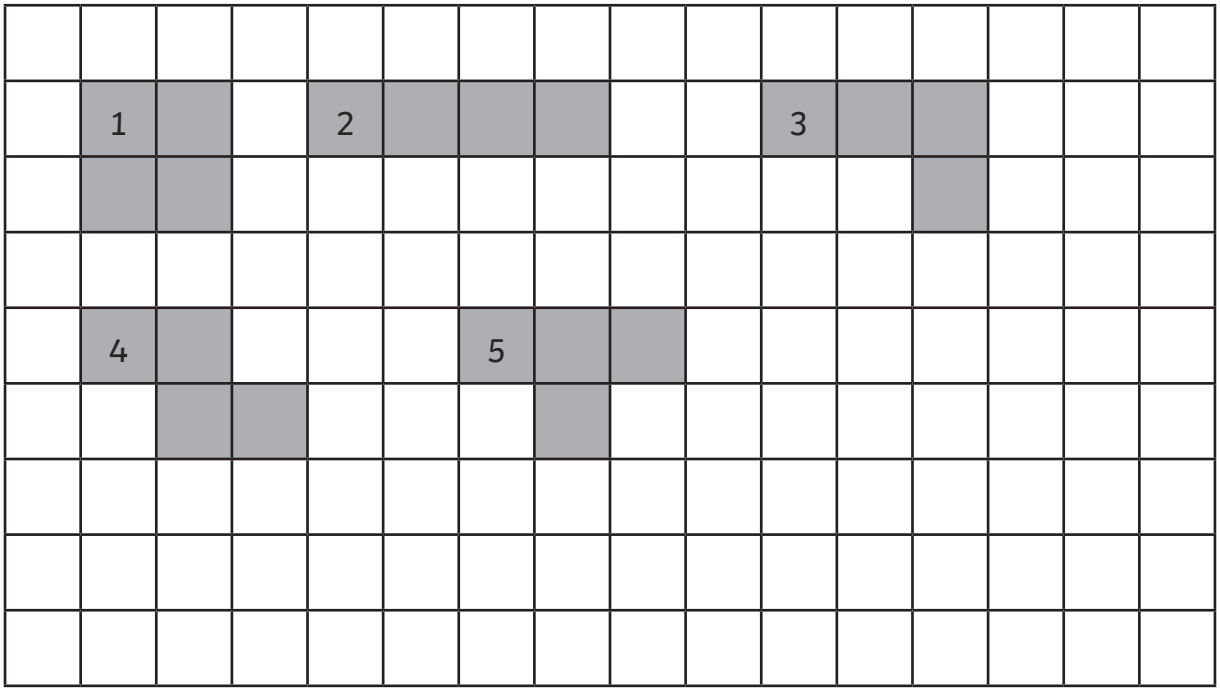
Perimeter: **8** cm

What do you notice about the area and perimeter of these 2 shapes?

They both have the same area and perimeter.

Perimeter and Area 1 Answers

Draw different shapes with 4 whole squares and write the area and perimeter in the table below.



Shape	Area	Perimeter
1	**4cm²**	**8cm**
2	**4cm²**	**10cm**
3	**4cm²**	**10cm**
4	**4cm²**	**10cm**
5	**4cm²**	**10cm**

What do you notice about the area and perimeter of these shapes?

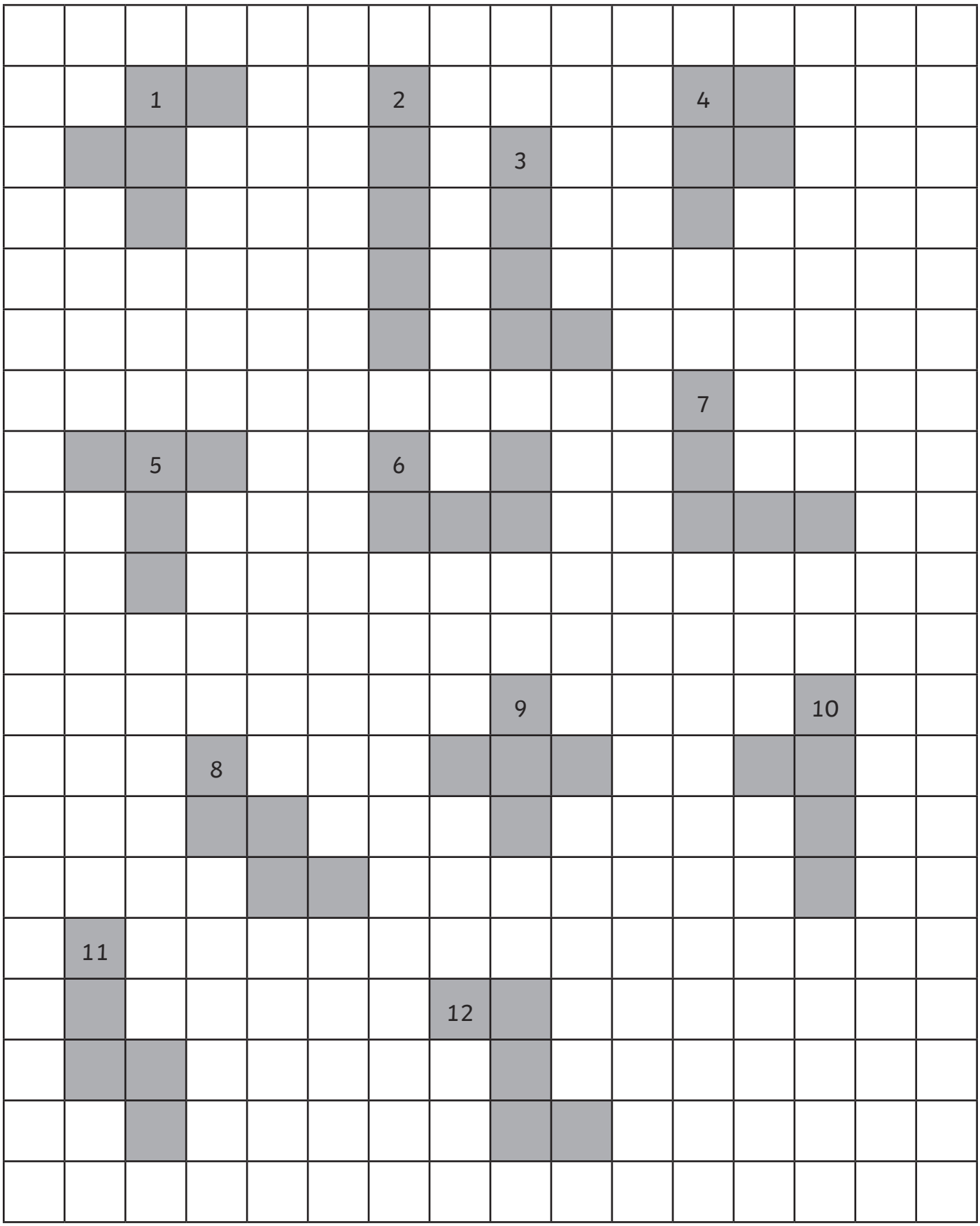
The area and perimeter are the same for all the shapes except the square where the perimeter is 8cm instead of 10cm.

Can you explain why?

The perimeter is less because the squares have been put together so 2 sides that were on the outside are now on the inside.

Perimeter and Area 1 **Answers**

Draw different shapes with 5 whole squares and write the area and perimeter in the table below.



Perimeter and Area 1 **Answers**

Shape	Area	Perimeter
1	**5cm^2**	**12cm**
2	**5cm^2**	**12cm**
3	**5cm^2**	**12cm**
4	**5cm^2**	**10cm**
5	**5cm^2**	**12cm**
6	**5cm^2**	**12cm**
7	**5cm^2**	**12cm**
8	**5cm^2**	**12cm**
9	**5cm^2**	**12cm**
10	**5cm^2**	**12cm**
11	**5cm^2**	**12cm**
12	**5cm^2**	**12cm**

What do you notice about the area and perimeter of these shapes?

All the shapes have the same area and perimeter except one, which has a perimeter of 10cm instead of 12cm.

Can you explain why?

The perimeter is less because the squares have been put together so 2 sides that were on the outside are now on the inside.