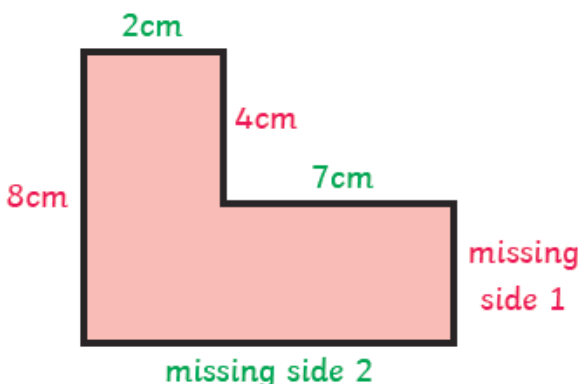
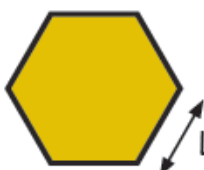


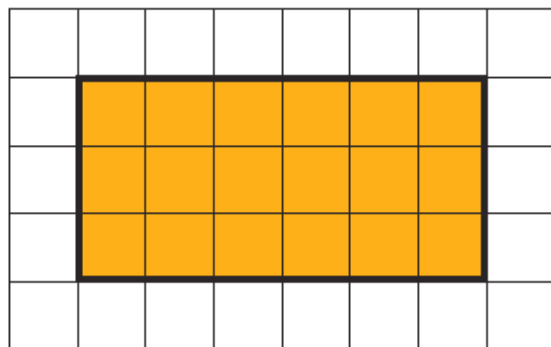
Perimeter and Area

Key Vocabulary	Measure Perimeter	Calculate Perimeter
metre	Measure the perimeter of a rectangle: 	Calculate the missing sides of this rectilinear shape to find the perimeter: 
kilometre		
perimeter		
length	Measure the length (l) and width (w). Perimeter = l + w + l + w or (l + w) × 2	* This shape is not drawn to the dimensions specified. Missing side 1 + 4cm = 8cm, so missing side 1 = 4cm. Missing side 2 = 2cm + 7cm = 9cm Perimeter = sum of all sides = 2cm + 4cm + 7cm + 4cm + 9cm + 8cm = 34cm
width	Measure the perimeter of regular shapes:  Measure the length (l) and count the number of sides (s) on the shape. Perimeter = l × s	
rectangle	Measure the perimeter of irregular shapes: 	
rectilinear		
dimensions		
	Measure the length of each side and add them together.	

Length and Perimeter

Area of Rectangles

The area of a rectangle on a grid:



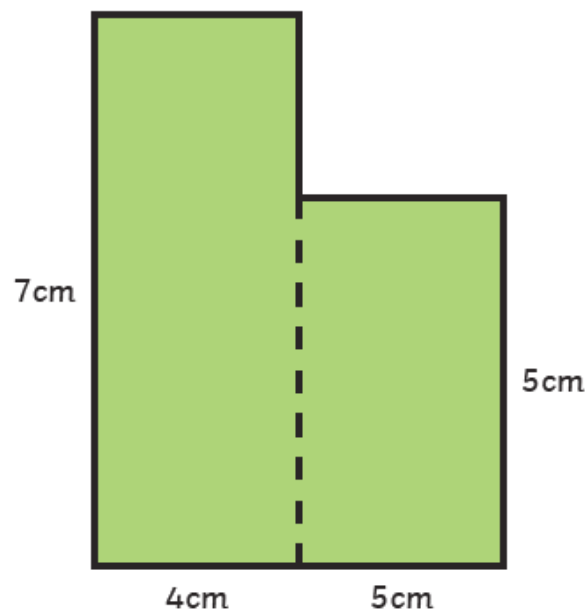
Multiply the length $\times$ width
 $= 6 \times 3 = 18$ squares.

The area of a rectangle = length (l) $\times$ width (w).



Area of Compound Shapes

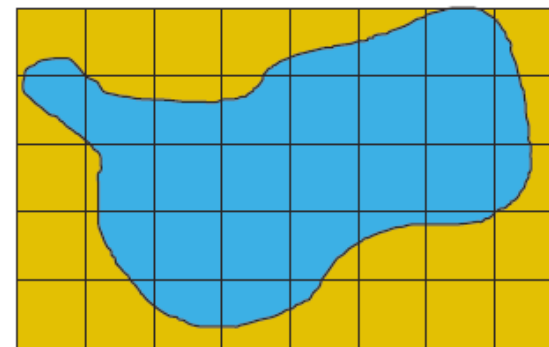
To find the area of a compound shape, divide the shape into rectangles with known dimensions:



$$\begin{aligned}\text{Area} &= 7\text{cm} \times 4\text{cm} + 5\text{cm} \times 5\text{cm} \\ &= 28\text{cm}^2 + 25\text{cm}^2 \\ &= 53\text{cm}^2\end{aligned}$$

Area of Irregular Shapes

To find the area of an irregular shape, find the number of whole squares and part squares.



Whole squares = 10

Part squares = 22

Estimate of area = whole squares +
half part squares

$$= 10\text{cm}^2 + 11\text{cm}^2 = 21\text{cm}^2$$

*There are other ways to estimate the area of irregular shapes.