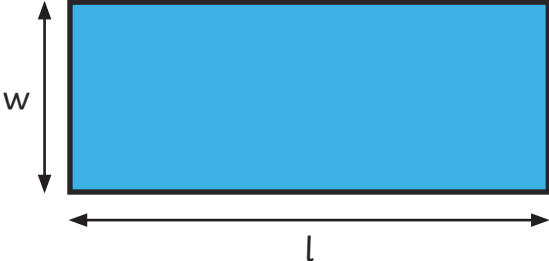
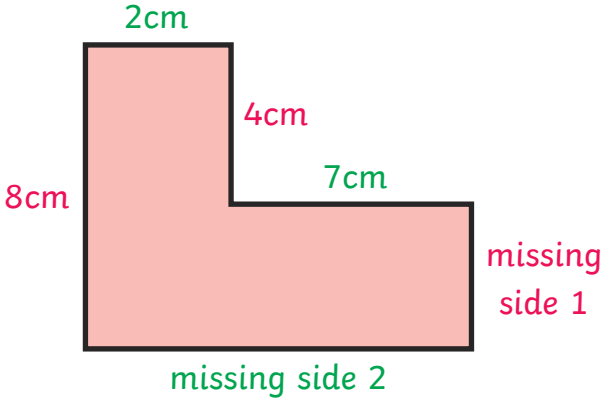
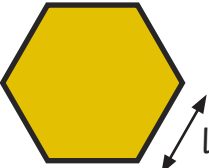




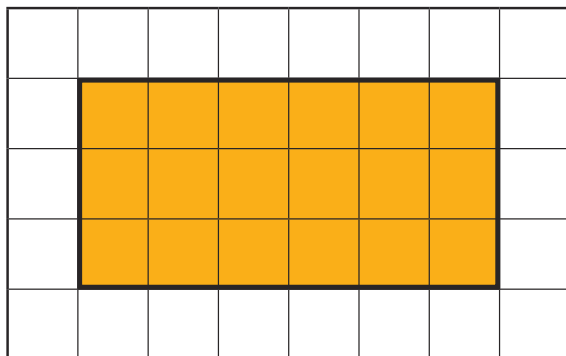
Key Vocabulary	Measure Perimeter	Calculate Perimeter		
metre	Measure the perimeter of a rectangle: 	Calculate the missing sides of this rectilinear shape to find the perimeter: 		
kilometre			Measure the length (l) and width (w). $Perimeter = l + w + l + w$ or $(l + w) \times 2$	* This shape is not drawn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

Length and Perimeter

Knowledge Organiser

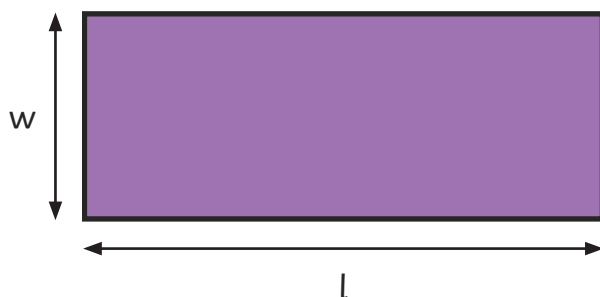
Area of Rectangles

The area of a rectangle on a grid:



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

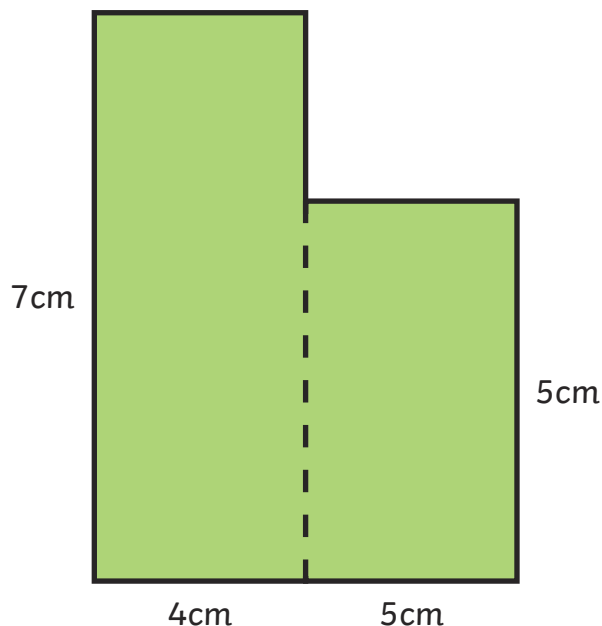
The area of a rectangle = length (l) \times width (w).



visit [twinkl.com](https://www.twinkl.com)

Area of Compound Shapes

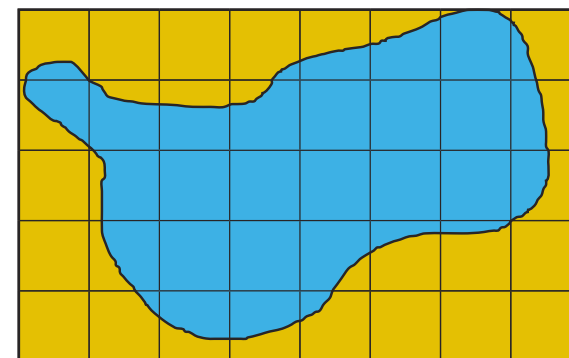
To find the area of a compound shape, divide the shape into rectangles with known dimensions:



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

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

$$\begin{aligned} \text{Estimate of area} &= \text{whole squares} + \\ &\quad \text{half part squares} \\ &= 10\text{cm}^2 + 11\text{cm}^2 = 21\text{cm}^2 \end{aligned}$$

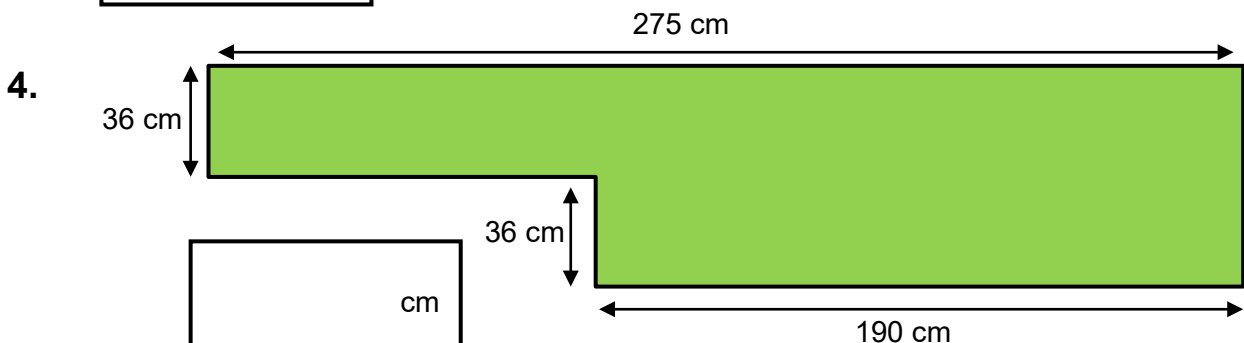
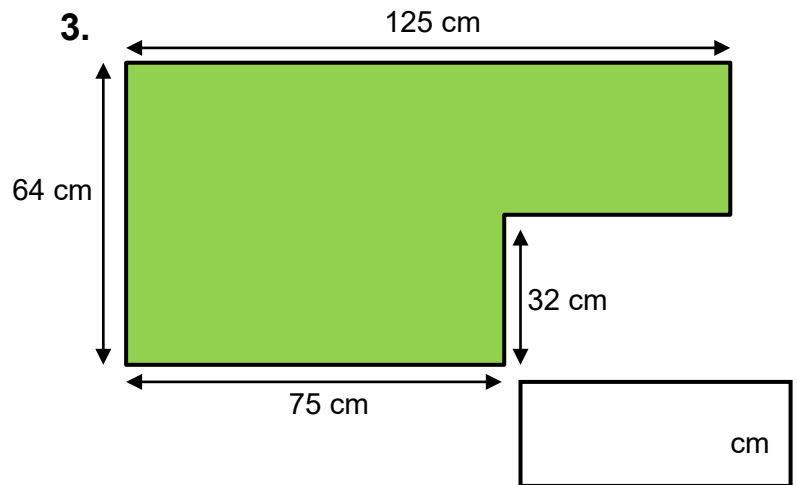
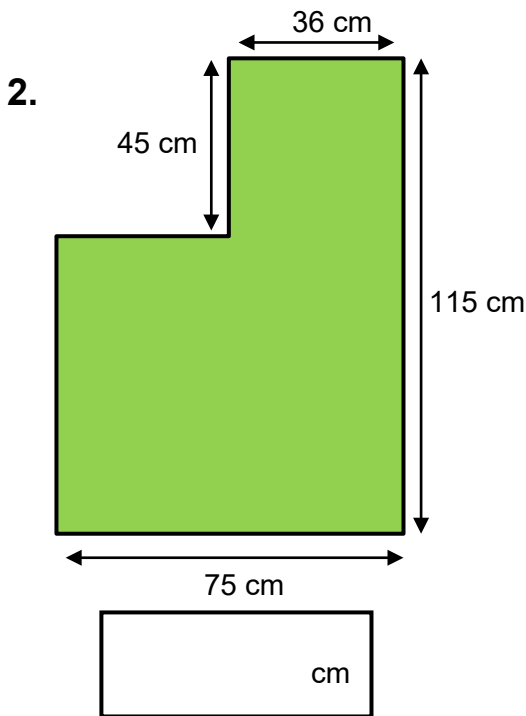
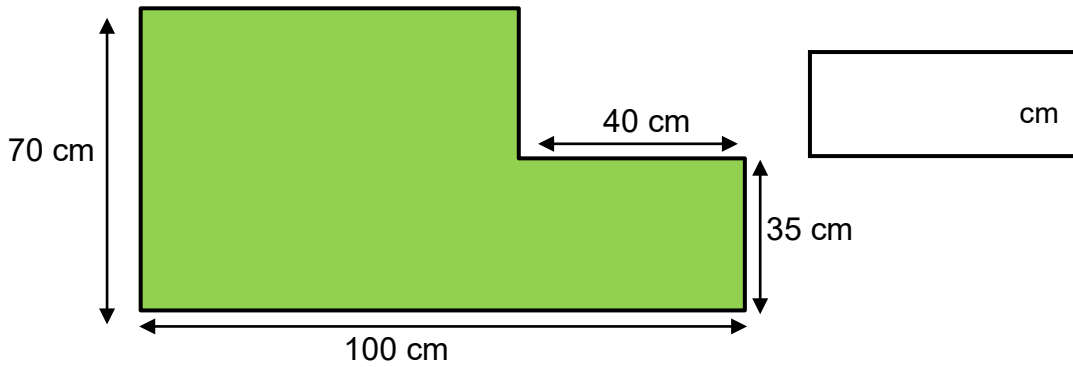
*There are other ways to estimate the area of irregular shapes.



Remember, the perimeter is the distance all the way round the outside of a two dimensional shape. You may need to work out some missing lengths to find the perimeter.

1. Calculate the perimeter of these shapes?

Not to scale.



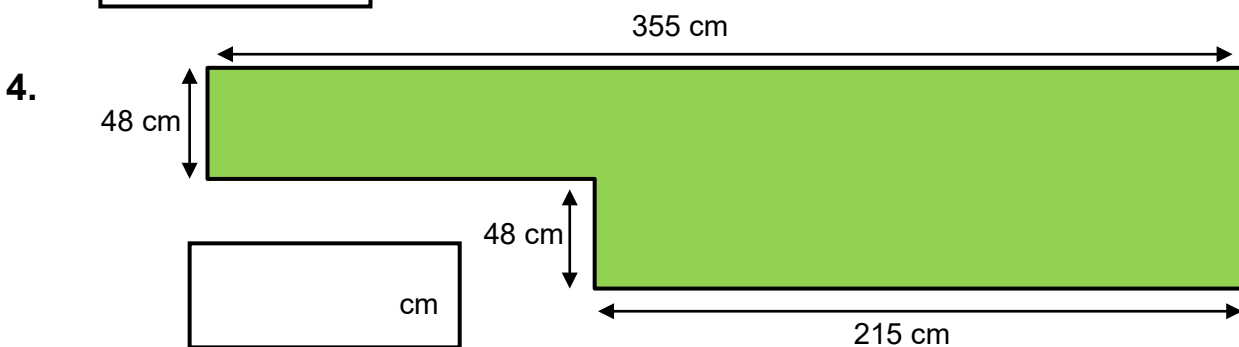
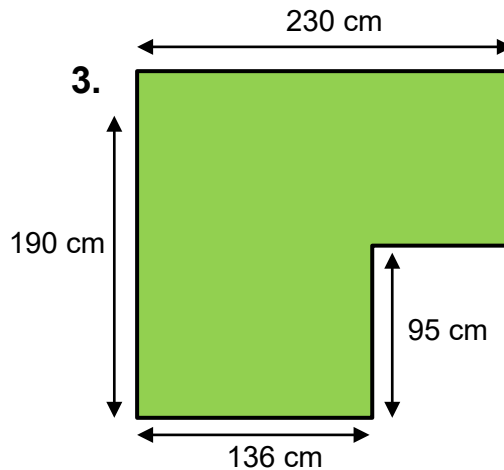
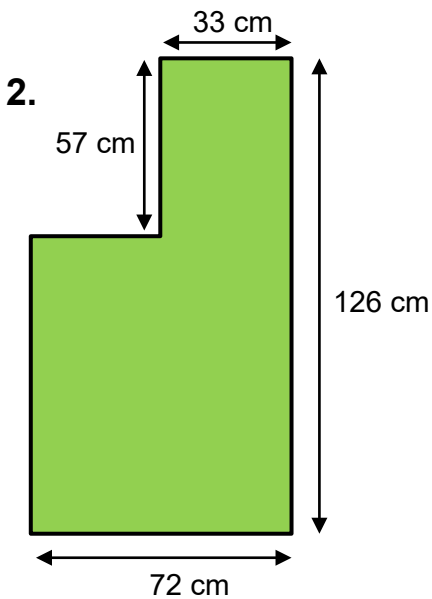
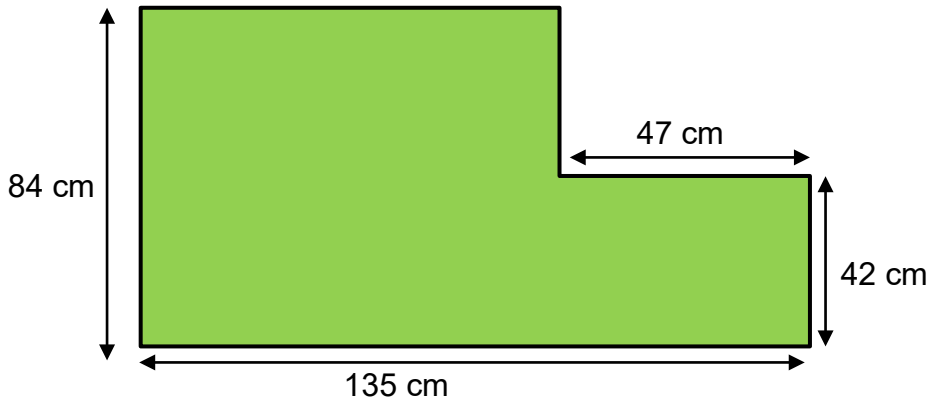
Name:



Remember, the perimeter is the distance all the way round the outside of a two dimensional shape. You may need to work out some missing lengths to find the perimeter.

1. Calculate the perimeter of these shapes?

Not to scale.



Name:



Answers

Page 1

1. 340 cm 2. 380 cm 3. 378 cm 4. 694 cm

Page 2

1. 438 cm 2. 396 cm 3. 840 cm 4. 902 cm