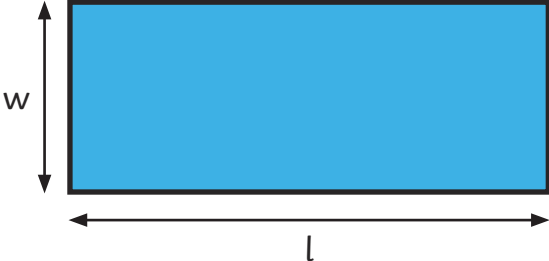
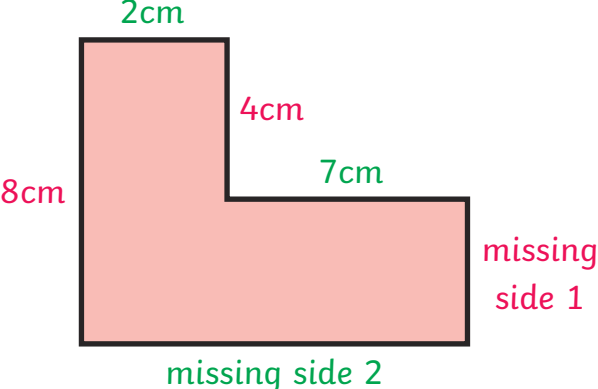
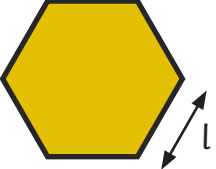




Length, Perimeter and Area

Knowledge Organiser

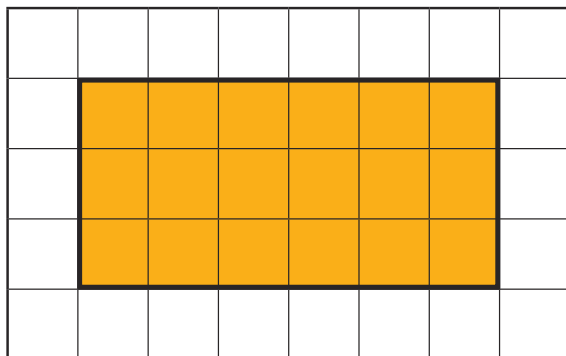
Key Vocabulary	Measure Perimeter	Calculate Perimeter
metre	<p>Measure the perimeter of a rectangle:</p>  <p>Measure the length (l) and width (w). Perimeter = $l + w + l + w$ or $(l + w) \times 2$</p>	<p>Calculate the missing sides of this rectilinear shape to find the perimeter:</p>  <p>* This shape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

Length, Perimeter and Area

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Area of Rectangles

The area of a rectangle on a grid:



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

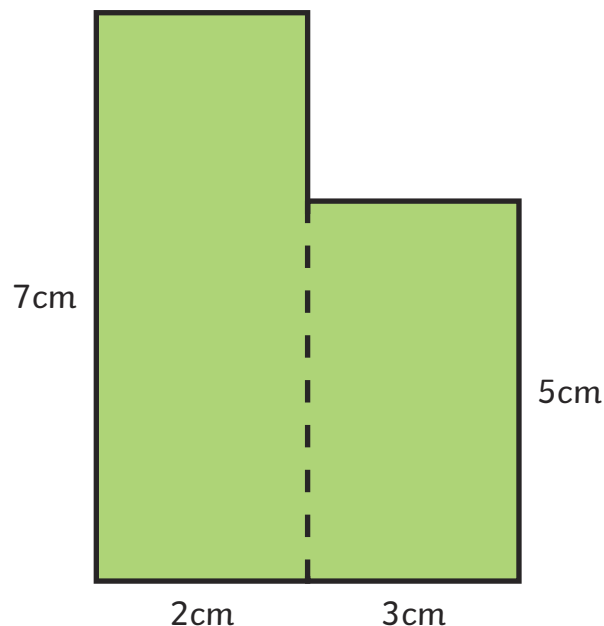
The area of a rectangle = length (l) \times width (w).



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Area of Compound Shapes

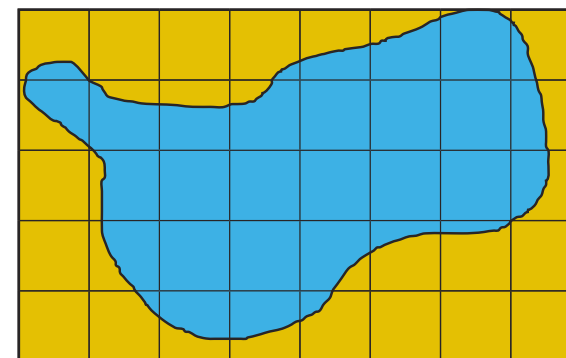
To find the area of a compound shape, divide the shape into rectangles with known dimensions:



$$\begin{aligned} \text{Area} &= 7\text{cm} \times 2\text{cm} + 3\text{cm} \times 5\text{cm} \\ &= 14\text{cm}^2 + 15\text{cm}^2 \\ &= 29\text{cm}^2 \end{aligned}$$

Estimating Area

To estimate the area of an irregular shape, find the number of whole squares plus squares where more than half is covered.



Whole squares = 10
Squares where more than half is covered = 10

$$\begin{aligned} \text{Estimate of area} &= \text{whole squares} + \\ &\quad \text{part squares} \\ &= 10\text{cm}^2 + 10\text{cm}^2 = 20\text{cm}^2 \end{aligned}$$

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