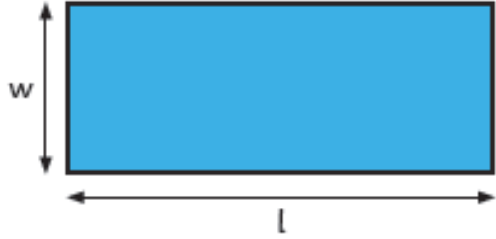


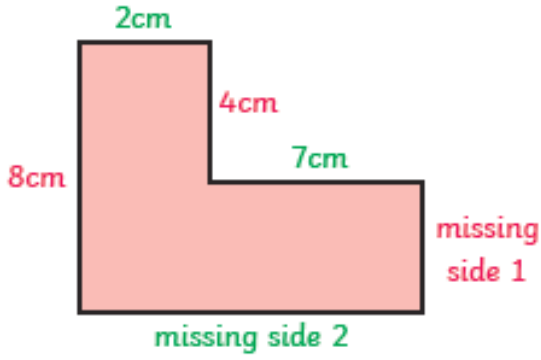
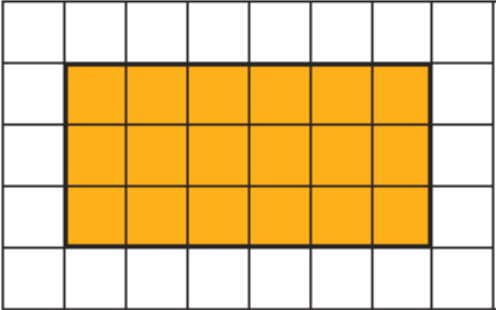

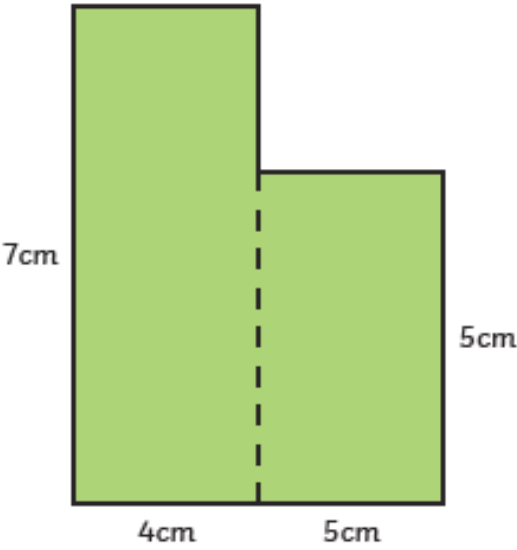
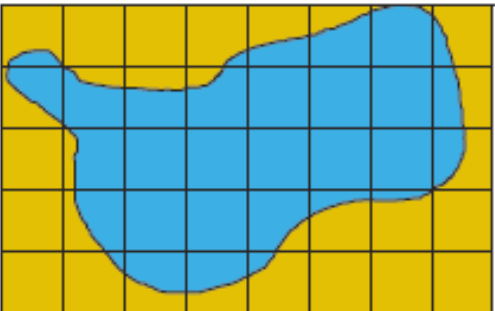




Key Vocabulary
metre
kilometre
perimeter
length
width
rectangle
rectilinear
dimensions

Measure Perimeter	Calculate Perimeter
<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> <hr/> <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> <hr/> <p>Measure the perimeter of irregular shapes:</p>  <p>Measure the length of each side and add them together.</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 style="color: red;">Missing side 1 + 4cm = 8cm, so missing side 1 = 4cm.</p> <p style="color: green;">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>



Area of Rectangles	Area of Compound Shapes	Area of Irregular Shapes
<p>The area of a rectangle on a grid:</p>  <p>Multiply the length \times width $= 6 \times 3 = 18$ squares.</p> <p>The area of a rectangle = length (l) \times width (w).</p> 	<p>To find the area of a compound shape, divide the shape into rectangles with known dimensions:</p>  <p>Area = $7\text{cm} \times 4\text{cm} + 5\text{cm} \times 5\text{cm}$ $= 28\text{cm}^2 + 25\text{cm}^2$ $= 53\text{cm}^2$</p>	<p>To find the area of an irregular shape, find the number of whole squares and part squares.</p>  <p>Whole squares = 10 Part squares = 22</p> <p>Estimate of area = whole squares + half part squares $= 10\text{cm}^2 + 11\text{cm}^2 = 21\text{cm}^2$</p> <p>*There are other ways to estimate the area of irregular shapes.</p>

Is it possible for shapes to have the same area and perimeter?
 How many ways can you draw a shape with an area of 12cm^2 ? What is the same and what is different about these shapes?