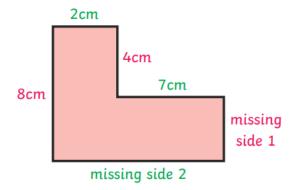


Year 5 Area and Perimeter

Key	Measure Perimeter
Vocabulary	
metre	
kilometre	Measure the perimeter of a rectangle:
perimeter	
length	w
width	•
rectangle	l.
rectilinear	Measure the length (l) and width (w). Perimeter = l + w + l + w or (l + w) × 2
dimensions	Measure the perimeter of regular shapes:
	Measure the length (l) and count the number of sides (s) on the shape. Perimeter = l × s
	Measure the perimeter of irregular shapes:
	Measure the length of each side and add them together.

Calculate Perimeter

Calculate the missing sides of this rectilinear shape to find the perimeter:

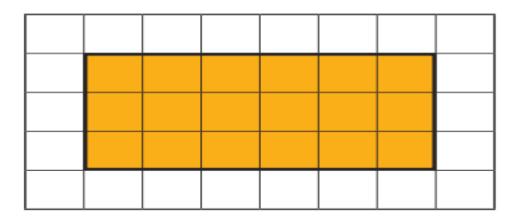


^{*} This shape is not drawn to the dimensions specified.

Missing side
$$2 = 2cm + 7cm = 9cm$$

Area of Rectangles

The area of a rectangle on a grid:



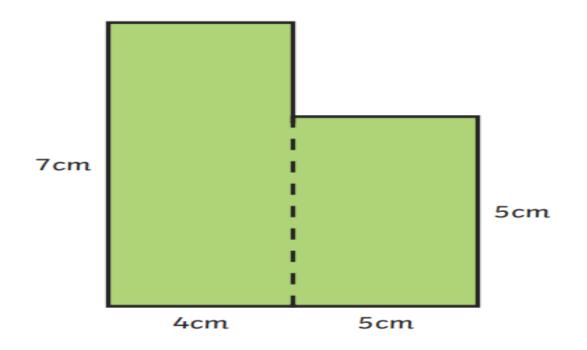
Multiply the length \times width $= 6 \times 3 = 18$ squares.

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



Area of Compound Shapes

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

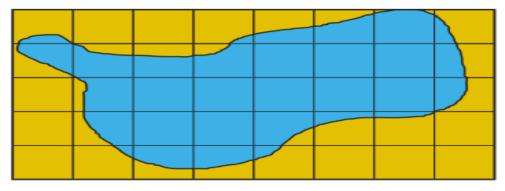


Area =
$$7cm \times 4cm + 5cm \times 5cm$$

= $28cm^2 + 25cm^2$
= $53cm^2$

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
= 10cm² + 11cm² = 21cm²

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