

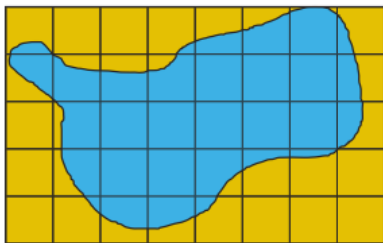
Summer Term 1 - Year 5 Maths - Measurement- Area and Perimeter



Previously Learned Vocabulary	
Millimetre (y3)	Roman numerals to XII (y3)
Perimeter (y3)	Centimetre (y2)
Convert (y4)	Conversion (y4)
Rectilinear (y4)	Area (y4)
Dimensions (y4)	Kilometre (y4)
New Vocabulary	
m^2	cm^2
Composite	

Estimate area

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

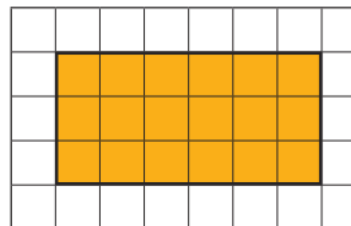


Whole squares = 10
Squares where more than half is covered = 10

Estimate of area = whole squares + part squares
 $= 10cm^2 + 10cm^2 = 20cm^2$

Calculate area of rectangles

The area of a rectangle on a grid:

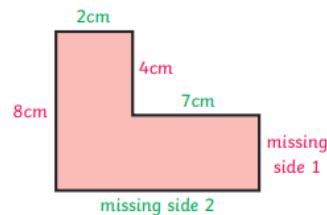


Multiply the length \times width
 $= 6 \times 3 = 18$ squares.

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



Calculate missing side lengths of rectilinear shapes



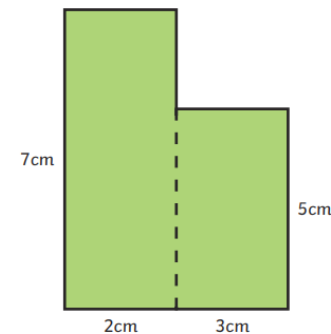
Missing side 1 + 4cm = 8cm,
so missing side 1 = 4cm.

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

Perimeter = sum of all sides =
 $2cm + 4cm + 7cm + 4cm + 9cm + 8cm = 34cm$

Calculate area of compound shapes

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



Area = $7cm \times 2cm + 3cm \times 5cm$
 $= 14cm^2 + 15cm^2$
 $= 29cm^2$

Measure and calculate perimeter

Measure the perimeter of a rectangle:



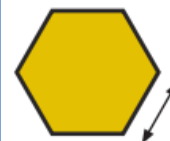
Measure the length (l) and width (w).
Perimeter = $l + w + l + w$ or $(l + w) \times 2$

Measure the perimeter of irregular shapes:



Measure the length of each side and add them together.

Measure the perimeter of regular shapes:



Measure the length (l) and count the number of sides (s) on the shape.

Perimeter = $l \times s$