Perimeter and area

Lesson sequence

- Perimeter of rectangles
- Perimeter of rectilinear shapes
- Perimeter of polygons
- Area of rectangles
- Area of compound shapes
- Estimate area

Vocabulary

- *Multiply*
- *Perimeter*
- *Area*
- *Rectilinear*
- *Rectangle*
- *Polygon*
- Compound shape
- Width
- Length

Sticky learning

New Knowledge

- *To know the formula for area is l x w*
- *To know that imperial measurements include feet, inches and pints*
- *To know that metric measurements include meters, centimeters and kilometers*
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New Skills

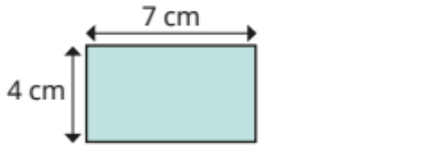
- *To calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm^2) and square metres (m^2) and estimate the area of irregular shapes (also included in measuring)*
- *To measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres*
- *To calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm^2) and square metres (m^2) and estimate the area of irregular shapes*
- *To calculate the perimeter of rectangles and related composite shapes, including using the relations of perimeter or area to find unknown lengths*

Concept Links/Prior Knowledge

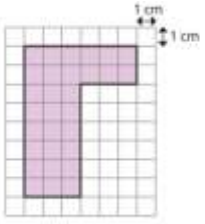
- *To know that area is the measurement of space inside a 2-Dimensional shape*
- *To measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres*
- *To find the area of rectilinear shapes by counting squares*

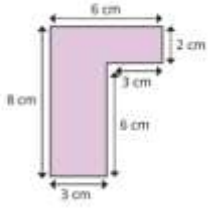
Pictorial representations

Perimeter

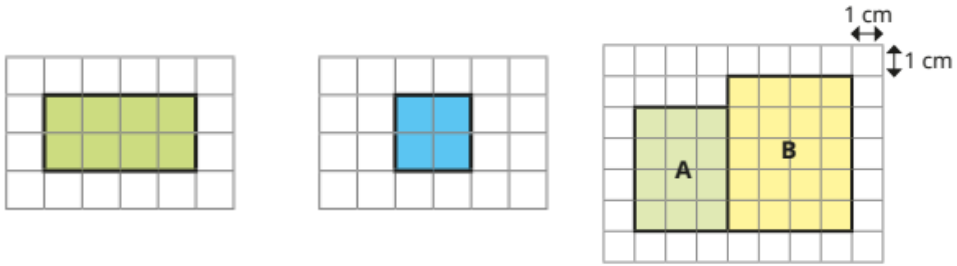


7 cm + 4 cm + 7 cm + 4 cm = 22 cm



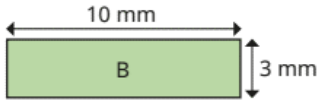


Area

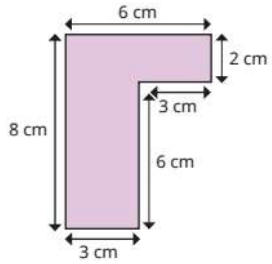


Abstract Representations

Perimeter

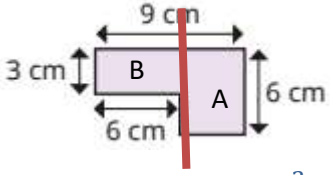


$10 \times 3 = 30mm^2$



6cm + 2cm + 3cm + 6cm +3cm + 8cm = 28cm

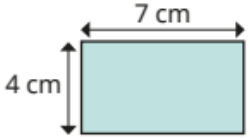
Area



$A = 6cm \times 3cm = 18cm^2$

$B = 6cm \times 3cm = 18cm^2$

$18cm^2 + 18cm^2 = 32cm^2$



$7cm \times 4cm = 32cm^2$