



Perimeter and Area

Skills

- Measure perimeter
- Calculate perimeter
- Area of rectangles
- Area of compound shapes
- Area of irregular shapes

Vocabulary

Metre (m), centimetre (cm), millimetre (mm), kilometre (km), length, width, area, perimeter, rectangle, oblong, rectilinear, parallel, perpendicular, compound shape, irregular shape

Inspirational Mathematician

Sofia Kovalevskaya (1850-1891)

Russian mathematician Sofia Kovalevskaya made monumental contributions to maths. She was a pioneer and icon for females in mathematics everywhere. The first woman to obtain a PhD in mathematics, she went on to gain global recognition in the mathematical community and was awarded the Prix Bordin, a prize given to the best solution of a specific mathematical problem.



Area of Rectangles



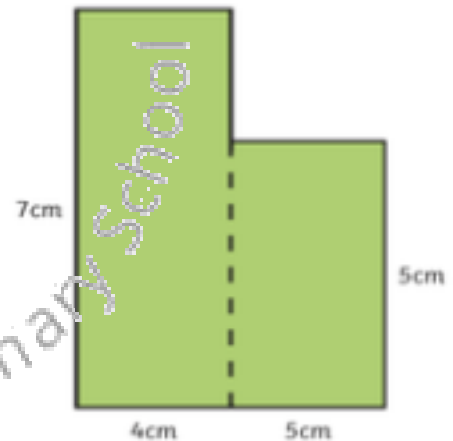
To calculate the area of a rectangle, multiply the length by the width.

$$A = L \times W$$

Area of Compound Shapes

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

$$\begin{aligned} \text{Area} &= 7\text{cm} \times 4\text{cm} + 5\text{cm} \times 5\text{cm} \\ &= 28\text{cm}^2 + 25\text{cm}^2 \\ &= 53\text{cm}^2 \end{aligned}$$



Measure Perimeter

To measure the perimeter of a rectangle you need to measure the length (l) and width (w).

$$\text{Perimeter} = l + w + l + w \text{ or } (l + w) \times 2$$

To measure the perimeter of a regular shape you need to measure the length (l) and count the number of sides (s) on the shape.

$$\text{Perimeter} = l \times s$$

To measure the perimeter of irregular shapes you need to measure the length of each side and add them together.

