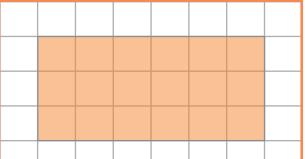
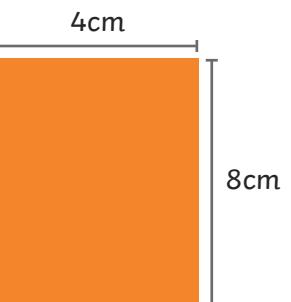
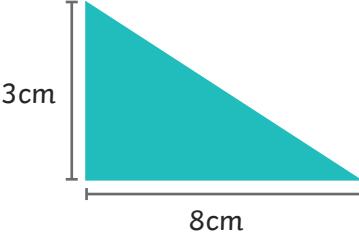
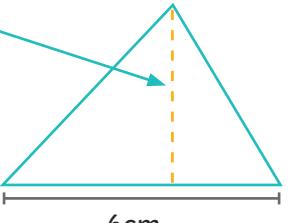
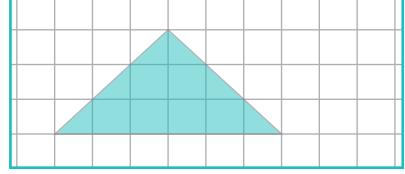
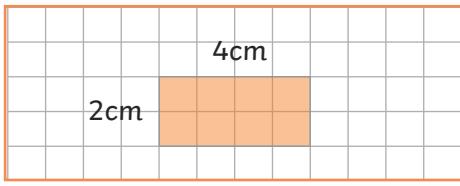


Key Vocabulary	Area of Rectangles	Area of Triangles
perimeter	$\text{length} \times \text{width} = \text{area of a rectangle}$  Counting squares: area = 18cm^2 Use formula: $6\text{cm} \times 3\text{cm}$ area = 18cm^2	 $8\text{cm} \times 4\text{cm}$ area = 32cm^2
area		 $8\text{cm} \times 3\text{cm} \div 2$ area = 12cm^2
volume		
cubic units (e.g. cm^3)		
cuboid		
width		perpendicular height = 5cm  $6\text{cm} \times 5\text{cm} \div 2$ area = 15cm^2
length	Perimeter of Rectangles $\text{perimeter} = \text{length} + \text{width} + \text{length} + \text{width}$ or $(\text{length} + \text{width}) \times 2$  $5\text{cm} + 4\text{cm} + 5\text{cm} + 4\text{cm}$ area = 18cm^2	 Counting squares: 6 whole squares = 6cm^2 6 half squares = 3cm^2 $6\text{cm}^2 + 3\text{cm}^2 = 9\text{cm}^2$ area = 9cm^2
rectangle		
rectilinear		
parallelogram		
perpendicular height		

Perimeter and Area

Shapes with the same area can have different perimeters.

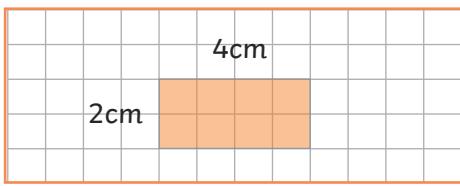


area = 8cm^2 perimeter = 12cm

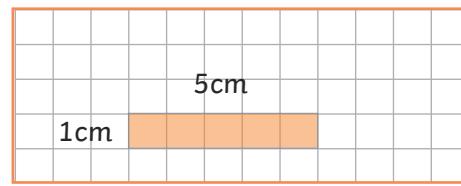


area = 8cm^2 perimeter = 18cm

Shapes with the same perimeter can have different areas.



area = 8cm^2 perimeter = 12cm

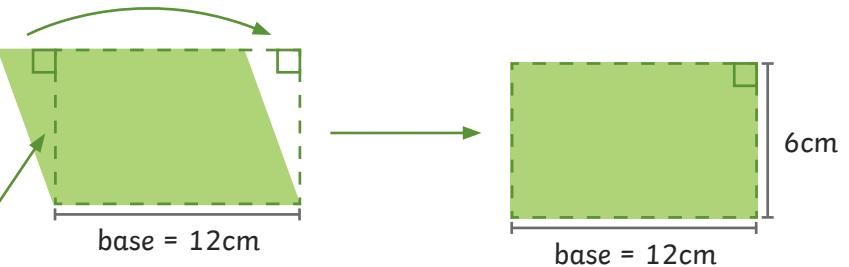


area = 5cm^2 perimeter = 12cm

Area of Parallelograms

$\text{base} \times \text{perpendicular height} = \text{area of a parallelogram}$

A parallelogram can be transformed into a rectangle.

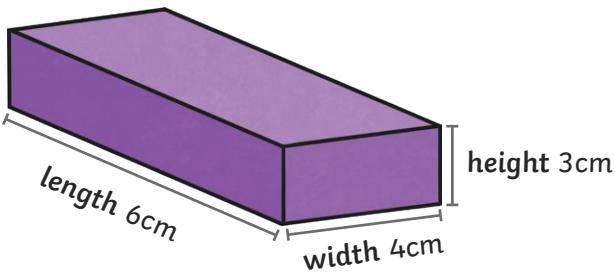


perpendicular height = 6cm

$12\text{cm} \times 6\text{cm} = 72\text{cm}^2$

Volume of Cuboids

$\text{length} \times \text{width} \times \text{height} = \text{volume of a cuboid}$

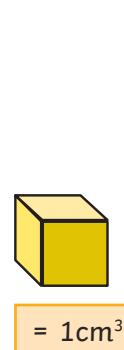


Multiply dimensions in **any** order:

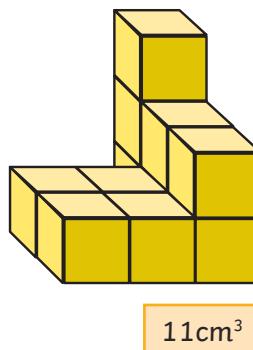
$3\text{cm} \times 6\text{cm} \times 4\text{cm}$

volume = 72cm^3

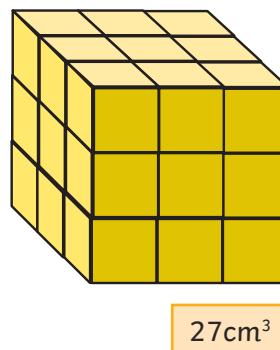
Volume - Counting Cubes



= 1cm^3



11cm^3



27cm^3