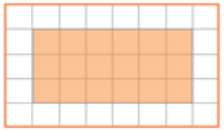
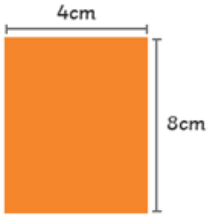
Key vocab
perimeter
area
volume
cubic units
cuboid
cube
width
length
height
rectangle
rectilinear
parallelogram
triangle

Area of a rectangle

length × width = area of a rectangle



Counting squares:
area = 18cm²
Use formula:
6cm × 3cm
area = 18cm²

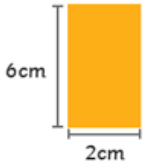


8cm × 4cm area = 32cm²

Perimeter of a rectangle

perimeter = length + width + length + width or (length + width) × 2

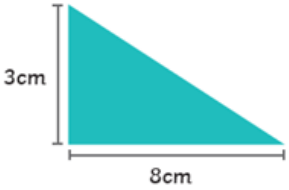
5cm + 4cm + 5cm + 4cm
area = 18cm²



(6 + 2) × 2
area = 16cm²

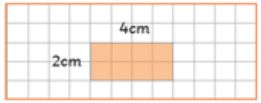
Area of a triangle

base × perpendicular height ÷ 2 = area of a triangle

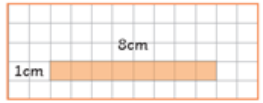


8cm × 3cm ÷ 2
area = 12cm²

Shapes with the same area can have different perimeters.



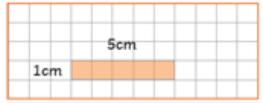
area = 8cm² perimeter = 12cm



area = 8cm² perimeter = 18cm

Shapes with the same perimeter can have different areas.

area = 8cm² perimeter = 12cm



area = 5cm² perimeter = 12cm

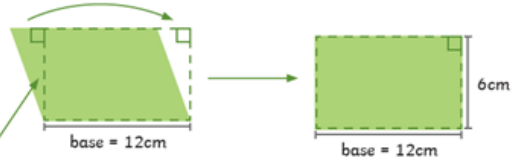
Perimeter, Area and Volume

Year 6

Area of a parallelogram

base × perpendicular height = area of a parallelogram

A parallelogram can be transformed into a rectangle.

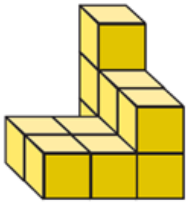


perpendicular height = 6cm

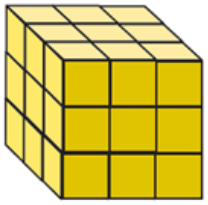
12cm × 6cm = 72cm²

Volume- counting cubes

= 1cm³



11cm³



27cm³

Volume of a cuboid

length × width × height = volume of a cuboid