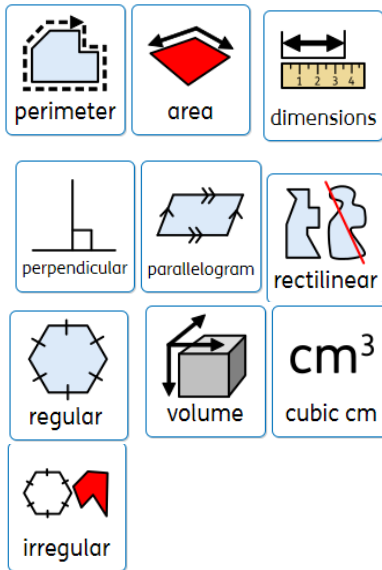
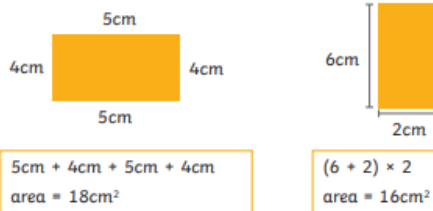


Year 6 Area Knowledge



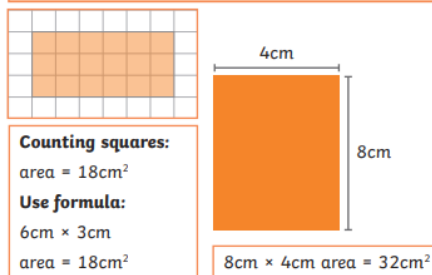
Perimeter of Rectangles

perimeter = length + width + length + width or $(\text{length} + \text{width}) \times 2$



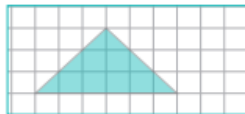
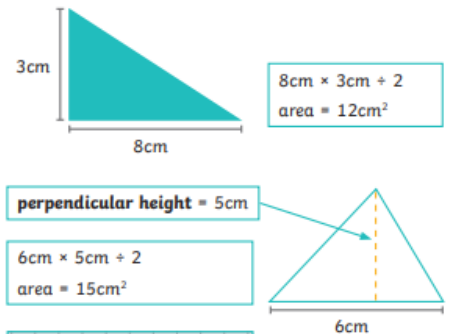
Area of Rectangles

length $\times$ width = area of a rectangle



Area of Triangles

base $\times$ perpendicular height $\div 2$ = area of a triangle



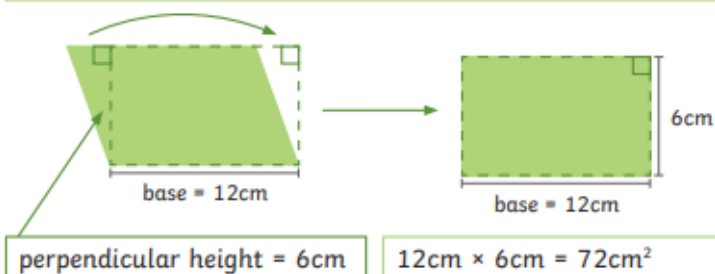
Counting squares:
6 whole squares = 6cm^2
6 half squares = 3cm^2
 $6\text{cm}^2 + 3\text{cm}^2 = 9\text{cm}^2$
area = 9cm^2

Using formula:
 $6\text{cm} \times 3\text{cm} \div 2 = 9\text{cm}^2$

Area of Parallelograms

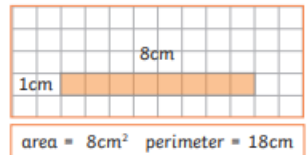
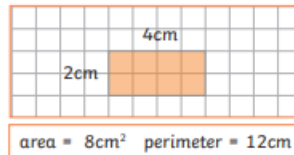
base $\times$ perpendicular height = area of a parallelogram

A parallelogram can be transformed into a rectangle.

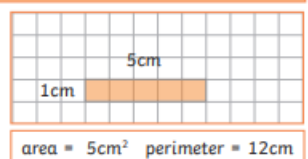
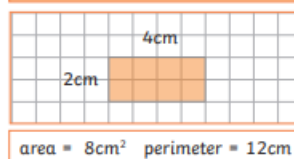


Perimeter and Area

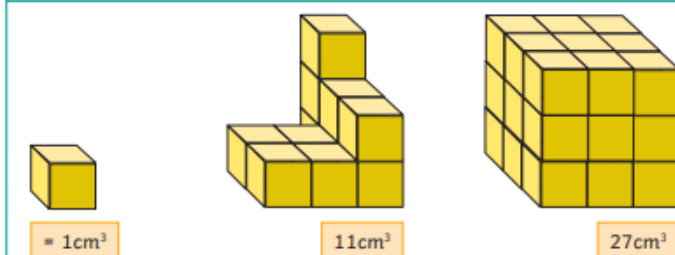
Shapes with the same area can have different perimeters.



Shapes with the same perimeter can have different areas.

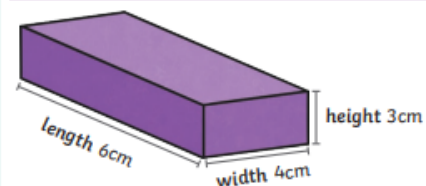


Volume - Counting Cubes



Volume of Cuboids

length $\times$ width $\times$ height = volume of a cuboid



Multiply dimensions in **any** order:
 $3\text{cm} \times 6\text{cm} \times 4\text{cm}$
volume = 72cm^3