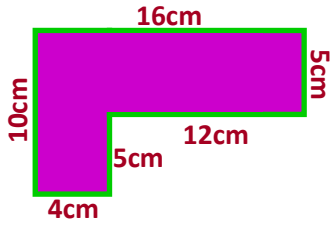
@MrH_T77

Year 5/6 - Perimeter, Area and Volume

Perimeter

The perimeter of a shape or space is the distance around the outside.



Perimeter = 5cm + 16cm + 10cm + 4cm + 5cm + 12cm = 52cm

Area

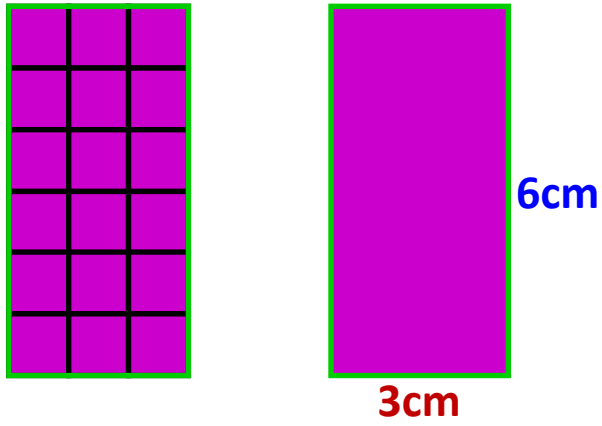
The area of a shape is the amount of 2D space it takes up

Perimeter

Area

Area of rectangle

Area of rectangle = b x h

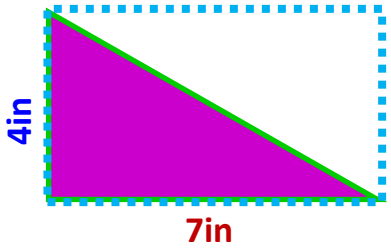


Area = 3cm x 6cm = $18cm^2$

Area of triangle

A triangle is half the size of a rectangle with the same base and height.

Therefore, the area is half the size.



Area of triangle = b x h ÷ 2

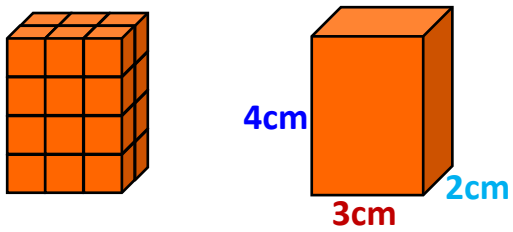
Area = 7in x 4in ÷ 2 = $28in^2$ ÷ 2 = $14in^2$

Volume of cuboids

The volume of a cuboid is its "3D space"

It can be counted as cubes or by using

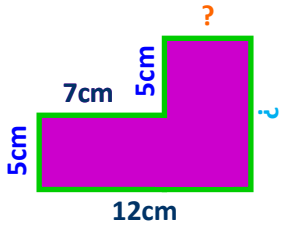
Volume of cuboid = base x height x depth



Volume = 3cm x 4cm x 2cm = $12cm^2$ x 2cm = $24cm^3$

Finding missing sides

Using the properties of shapes, we can find the length of missing sides.

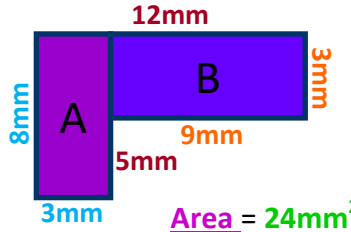


? = 12cm - 7cm = 5cm

? = 5cm + 5cm = 10cm

Area of compound shapes

To find the area of compound shapes, simply split them into shapes you can find the area of.



Area of A = 3mm x 8mm = $24mm^2$

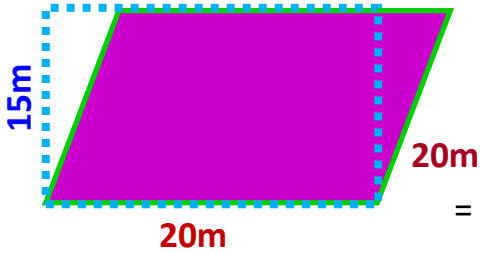
Area of B = 9mm x 3mm = $27mm^2$

Area = $24mm^2$ + $27mm^2$ = $51mm^2$

Area of Parallelogram

A parallelogram has the same area as a rectangle with the same base and height

Area of parallelogram = b x h



Area = 20m x 15m = $300m^2$