

Year 4 Area and Perimeter Knowledge

| | | | |
|-------------|---------------|-----------------------|------------------------|
| area | perimeter | cm centimetres | m metres |
| squares | distance | mm millimetres | km kilometres |
| length | width | rectilinear | 90° right angle |

Compare Lengths

6mm < 6cm
6cm = 60mm
6mm is shorter than 6cm

320cm > 2m 6cm
320cm > 200cm + 60cm
320cm is longer than 2m 60cm

98mm < 12cm 3mm
98mm < 120mm + 3mm
98mm is shorter than 12cm 3mm

Perimeter

..... = perimeter

5cm

2cm

2cm

5cm

5cm + 2cm + 5cm + 2cm = 14cm

3cm

3cm + 3cm + 3cm + 3cm + 3cm = 15cm

perimeter = 20cm

6cm + 6cm = 12cm

20cm - 12cm = 8cm

8cm ÷ 2cm = 4cm

Add and Subtract Lengths

14cm + 19cm = 33cm
8cm 2mm + 16mm =
98mm or 9cm 8mm

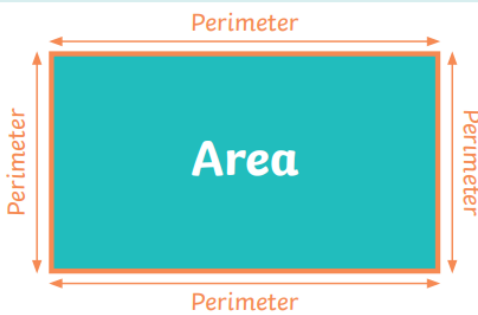
6m - 2m 28cm
6m - 2m = 4m
4m - 28cm = 3m 72cm

| | |
|---------|------|
| ? | |
| 8cm 2mm | 16mm |
| 82mm | 16mm |

| | |
|---------|---|
| 6m | |
| 2m 28cm | ? |

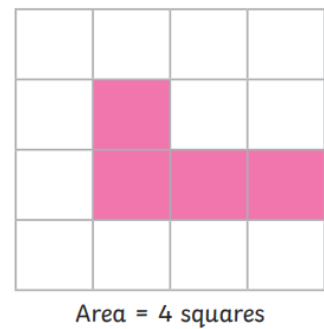
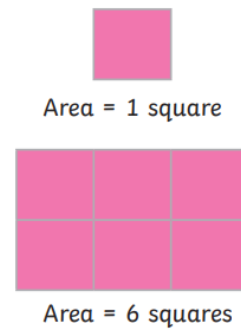
Area and Perimeter

Area is the amount of space inside a 2D shape.
Perimeter is the total **distance** around the outside of a 2D shape.



Measuring Area

We can count **squares** to find the **area** of a **rectilinear** shape.



Units of Measure for Perimeter

km 1 kilometre = 1000 metres
m 1 metre = 100 centimetres
cm 1 centimetre = 10 millimetres
mm



Rectilinear Figures

A **rectilinear** figure is a 2D shape whose sides all meet at **right angles** (90°).

