



Knowledge Organiser



Measurement

Year 3

Length & Perimeter

In Year 3, we can use our knowledge of addition and subtraction to apply to adding and subtracting lengths. Perimeter is the total distance around a shape. Understanding perimeter can help us in the future if we need to choose a frame for a picture.

Builds from Year 2:

Measure length/height (m/cm).
Compare and order lengths using $>$, $<$ and $=$.

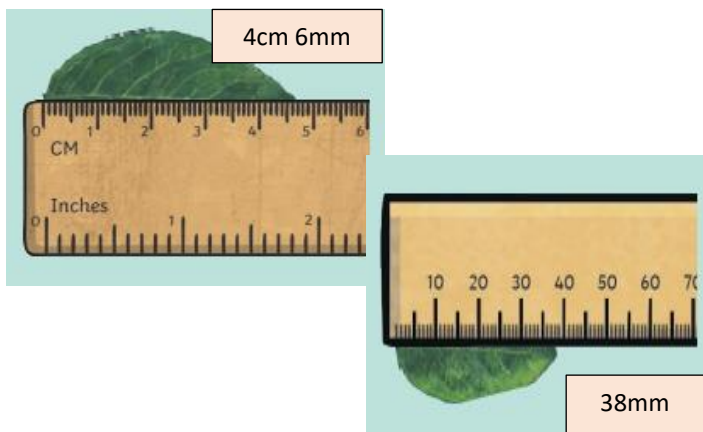
This year:

Measure, compare, add and subtract length.
Recognise equivalent lengths (mm & cm, cm & m).
Measure and calculate perimeter.

Leads to Year 4:

Convert between different units of measure.
Find the area.

Measuring Length



Comparing Length

$6\text{mm} < 6\text{cm}$
 $6\text{cm} = 60\text{mm}$
 6mm is shorter than 6cm

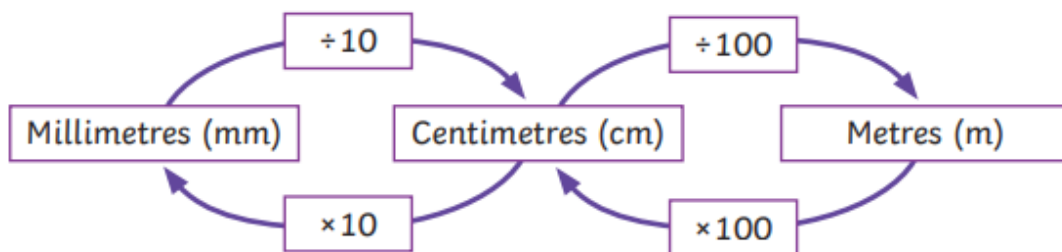
$320\text{cm} > 2\text{m } 60\text{cm}$
 $320\text{cm} > 200\text{cm} + 60\text{cm}$
 320cm is longer than 2m 60cm

$98\text{mm} < 12\text{cm } 3\text{mm}$
 $98\text{mm} < 120\text{mm} + 3\text{mm}$
 98mm is shorter than 12cm 3mm

Equivalent Lengths

100 centimetres = 1 metre

10 millimetres = 1 centimetre



317cm	
300cm	17cm
3m	17cm
3m 17cm	

Perimeter

Perimeter is the distance around the outside of a shape, calculated by adding the length of all sides together.

$5\text{cm} + 2\text{cm} + 5\text{cm} + 2\text{cm} = 14\text{cm}$

$3\text{cm} + 3\text{cm} + 3\text{cm} + 3\text{cm} + 3\text{cm} = 15\text{cm}$

perimeter = 20cm
 $6\text{cm} + 6\text{cm} = 12\text{cm}$
 $20\text{cm} - 12\text{cm} = 8\text{cm}$
 $8\text{cm} \div 2 = 4\text{cm}$

Key Vocabulary

length width height perimeter millimetre (mm) centimetre (cm) metre (m)