

# Year 3 Length and Perimeter

## Key Vocabulary

length

width

height

longer

longest

shorter

shortest

taller

tallest

millimetre mm

centimetre cm

metre m

perimeter

compare

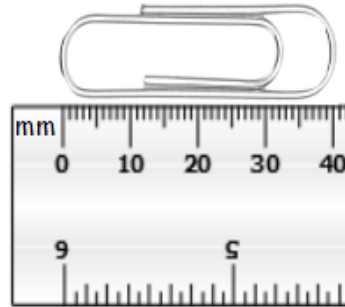
estimate

### Measuring Length

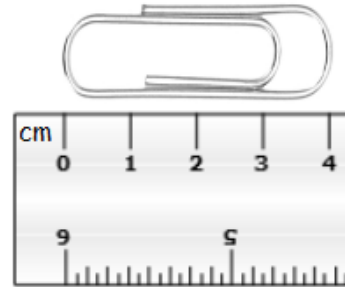
When measuring with a ruler remember to start at zero.



This paper clip 40 mm



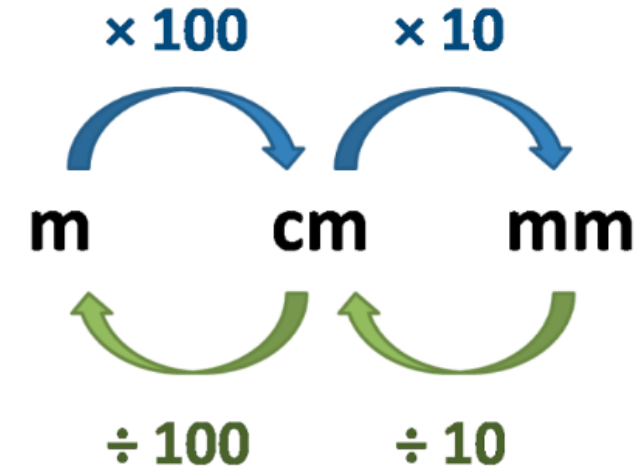
The paper clip is also 4 cm



### Equivalent Length

1 centimetre = 10 millimetres

100 centimetres = 1 metre



316 cm = 3 m 16 cm  
7 cm = 70 mm

### Compare Lengths

8 cm > 8mm  
 $\times 10 \downarrow$   
 80 mm > 8mm

Convert the 8 cm into millimetres so it is easier to compare.

8 cm is longer than 8 mm



270 cm < 2 metres 75 cm

$\downarrow$   
2 m and 70 cm < 2 metres 75 cm

270 cm is shorter than 2 metres 75 cm

### Add and Subtract Lengths

2 m 10cms + 120 cm

$\downarrow$   
2m 10 cm + 1 m 20 cm = 3m 30 cm

4m - 2m 20 cm

4m - 2m = 2m

2m - 20 cm

$\swarrow$   
200 cm - 20cm = 180 cm

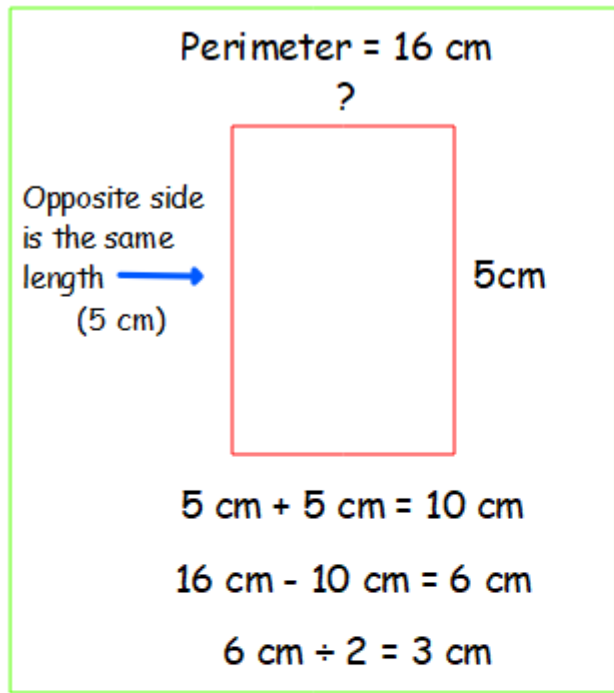
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<b>millimetre mm</b>
centimetre cm
metre m
<b>perimeter</b>
compare
estimate

### Perimeter

Perimeter = 16 cm  
?

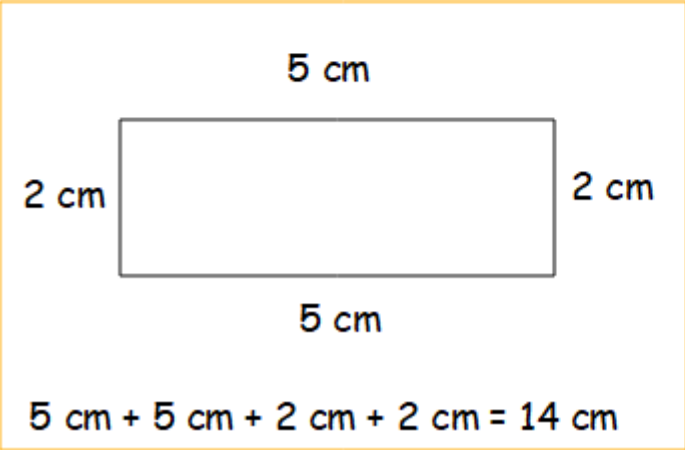


Opposite side is the same length → (5 cm)

5 cm

$5\text{ cm} + 5\text{ cm} = 10\text{ cm}$   
 $16\text{ cm} - 10\text{ cm} = 6\text{ cm}$   
 $6\text{ cm} \div 2 = 3\text{ cm}$

**Perimeter** is the distance around the outside of a shape.

5 cm

2 cm

2 cm

5 cm

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

6 cm

This is a square so all the sides are the same length.

$6\text{ cm} + 6\text{ cm} + 6\text{ cm} + 6\text{ cm} = 24\text{ cm}$