

# Length and Height

# Knowledge Organiser

## Key Vocabulary

length

longer

shorter

height

taller

measure

ruler

tape measure

metre stick

centimetre (cm)

metre (m)

compare

order

## Measuring in Centimetres

Measure from zero.



This ruler measures in **centimetres (cm)**.  
The paintbrush is 8cm long.

This ruler is to scale.

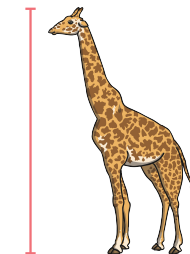


## Comparing Height

The giraffe is **taller** than the lion. The lion is **shorter** than the giraffe.

4m

4m > 1m

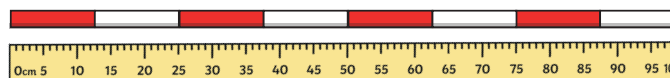
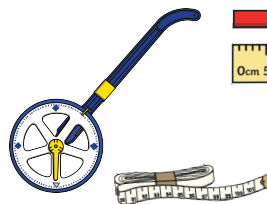


1m



## Measuring in Metres

We can measure the length or height of larger objects in **metres (m)**.  
The girl is 1m and 20cm tall.



We can use metre sticks, trundle wheels or tape measures.  
**1 metre = 100 centimetres**

## Comparing Length

The pencil is **shorter** than the pen.  
The pen is **longer** than the pencil.

7cm



10cm

7cm < 10cm

# Length and Height

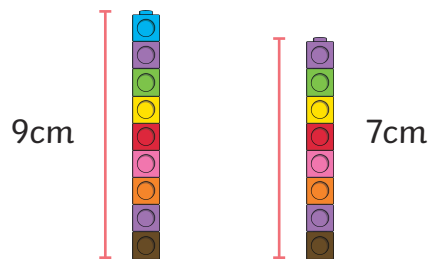
## Ordering Length

The straws are in order from **longest** to **shortest**.



A is the **longest**. B is **longer** than C.  
D is the **shortest**. C is **shorter** than A.

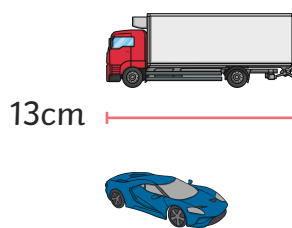
## Addition with Height



If we stacked the towers, how tall would they be altogether?

$$9\text{cm} + 7\text{cm} = 16\text{cm}$$

## Subtraction with Length



The car is 6cm **shorter** than the truck. How long is the car?

$$13\text{cm} - 6\text{cm} = 7\text{cm}$$

## Multiplication with Length



The chain has 5 links. Each link is 5cm long. How long is the chain?

$$5 \times 5\text{cm} = 25\text{cm}$$

## Division with Length

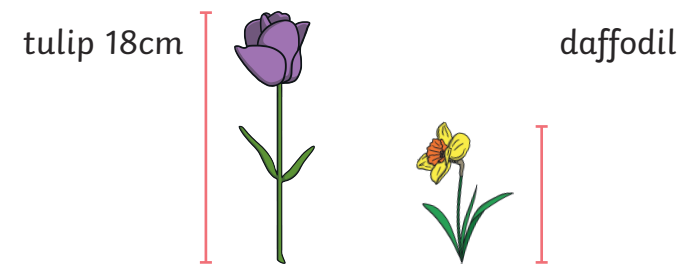


The string of beads is 20cm long. How long is each bead?

$$20\text{cm} \div 10 = 2\text{cm}$$

# Knowledge Organiser

## Halving with Height



The daffodil is half as tall as the tulip. How tall is it?

Half of 18cm is 9cm.

## Doubling with Height

The pear tree is double the height of the apple tree. How tall is it?

12 metres is double 6 metres.

