Comparing Length

Lesson 5

In Focus

name	height
 Hannah	155 cm
 Charles	1 m 50 cm
 Lulu	105 cm
 Elliott	1 m 60 cm
 Holly	98 cm

Who is taller? Charles or Lulu?

How can we tell who is the shortest and who is the tallest?

Comparing Length

Lesson 5

In Focus

name	height
 Hannah	155 cm
 Charles	1 m 50 cm
 Lulu	105 cm
 Elliott	1 m 60 cm
 Holly	98 cm

Who is taller? Charles or Lulu?

Some of the heights are written in metres and centimetres (e.g. Charles), while others are written in centimetres only (e.g. Lulu).

If we want to compare the heights of Charles and Lulu, what can we do to make the comparison easier?

Let's Learn

It would be easier to convert all of the measurements to the same.

So we could change them all into cm or all into m and cm.

1 m 50 cm

105 cm

Method 1

1 m 50 cm

1 m = 100 cm

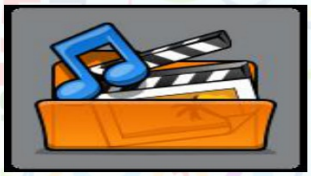
50 cm

150 cm

is 150 cm.

is 105 cm.

is taller.



TOP TIP

H	T	O
m		cm

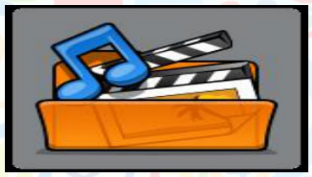
Method 2

105 cm

100 cm = 1 m

5 cm

1 m 5 cm



TOP TIP

H | T O

m | cm

name	height
 Charles	1 m 50 cm
 Lulu	1 m 5 cm

is taller.

Convert all of these measurements using either :
Method one (to cm) or Method two (to m and cm)

Then put the names of the children in order from shortest to tallest.

name	height
 Hannah	155 cm
 Charles	1 m 50 cm
 Lulu	105 cm
 Elliott	1 m 60 cm
 Holly	98 cm

Method one (to cm)	Method two (to m and cm)
155cm	1m 55cm
150cm	1m 50cm
105cm	1m 5cm
160cm	1m 60cm
98cm	0m 98cm

Shortest to tallest: Holly, Lulu, Charles, Hannah, Holly

Guided Practice

1

I ran 2 km 45 m.

Ruby

I ran 2450 m.

Amira

Who ran a longer distance?

Guided Practice

1

I ran 2 km 45 m.

Ruby

I ran 2450 m.

Amira

Who ran a longer distance?

2 km 45 m
2000 m + 45 m
2045 m

Ruby ran 2045 m
Amira ran 2450 m
Amira ran a longer distance

2 Sam ran 5 km 80 m last week.
This week he ran 5800 m.
Next week, he plans to run 580 m.

Which distance is longer?

2 Sam ran 5 km 80 m last week.
This week he ran 5800 m.
Next week, he plans to run 580 m.

Which distance is longer?

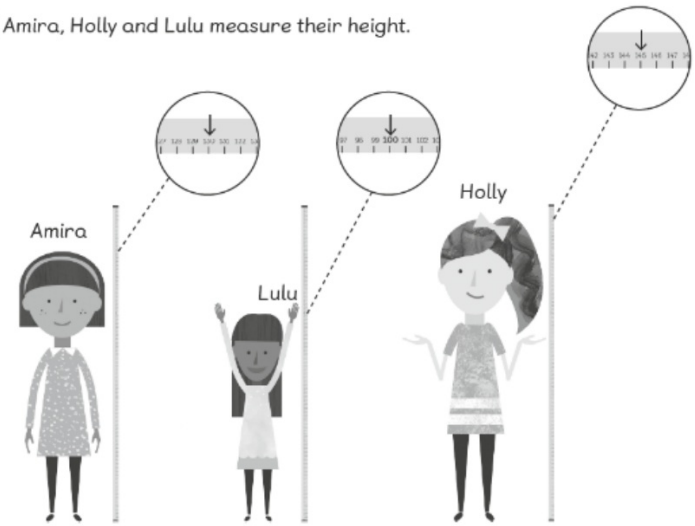
5 km 80 m
5000 m + 80 m
5080 m

Last Week: 5080 m
This Week: 5800 m
Next Week: 580 m
5800 m is the longer distance

Comparing Length

Fill in the blanks.

1 Amira, Holly and Lulu measure their height.



(a) _____ is the tallest.

(b) _____ is the shortest.

(c) Arrange the girls from the tallest to the shortest.

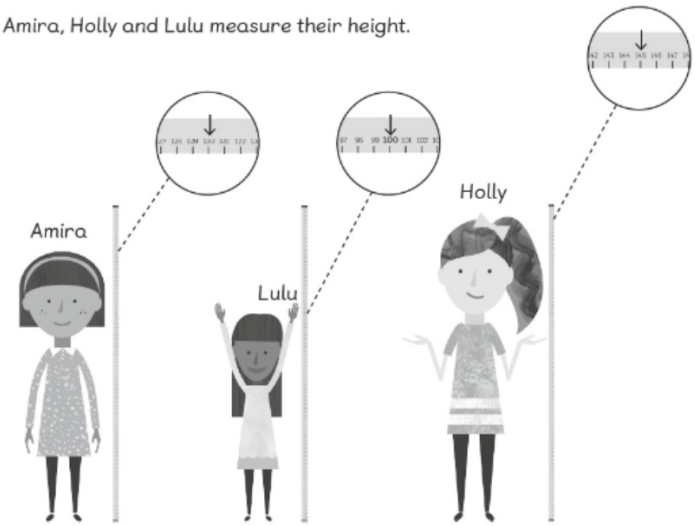
_____ , _____ , _____

tallest shortest

Comparing Length

Fill in the blanks.

1 Amira, Holly and Lulu measure their height.



(a) Holly is the tallest.

(b) Lulu is the shortest.

(c) Arrange the girls from the tallest to the shortest.

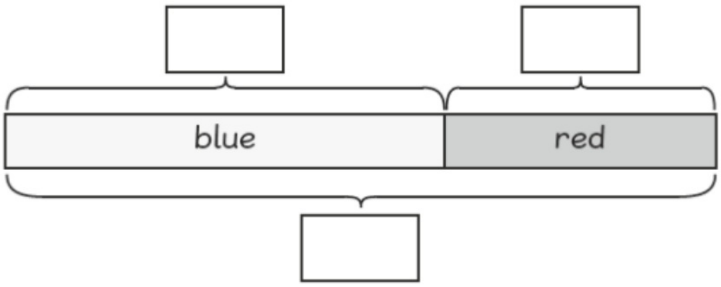
Holly , Amira , Lulu

tallest shortest

Going Deeper

show your working

1 Emma bought a blue cloth with a length of 400 cm to make a dress.
She bought another red cloth with a length of 250 cm.
What was the total length of the cloth she bought?

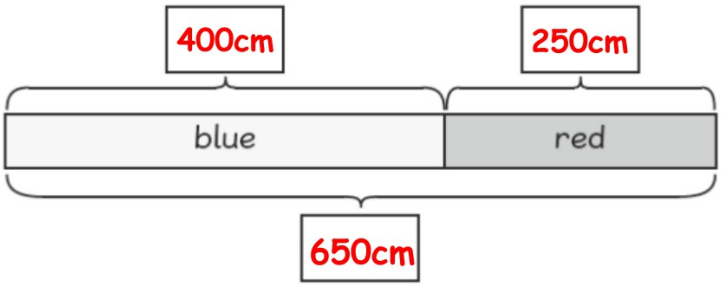


☐ + ☐ = ☐

The total length of the cloth she bought was ☐ cm.

Going Deeper show your working

1 Emma bought a blue cloth with a length of 400 cm to make a dress.
She bought another red cloth with a length of 250 cm.
What was the total length of the cloth she bought?



400 + 250 = 650

The total length of the cloth she bought was 650 cm.

Going Deeper

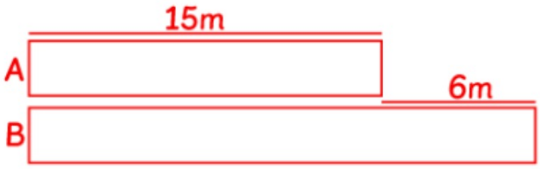
show your working

2 Rope A is 15 m long.
Rope B is 6 m longer than Rope A.
How long is Rope B?

3 Lulu walked 2 km 500 m to school.
Sam walked 1 km 200 m to school.
What was the total distance they walked to school?

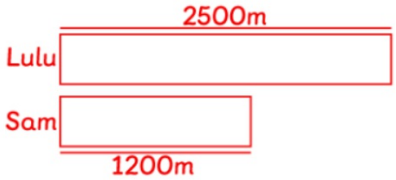
Going Deeper show your working

2 Rope A is 15 m long.
Rope B is 6 m longer than Rope A.
How long is Rope B?



15 + 6 = 21
Rope B is 21m long

3 Lulu walked 2 km 500 m to school.
Sam walked 1 km 200 m to school.
What was the total distance they walked to school?



2500 + 1200 = 3700
The total distance they walked to school was 3700m

Going Deeper

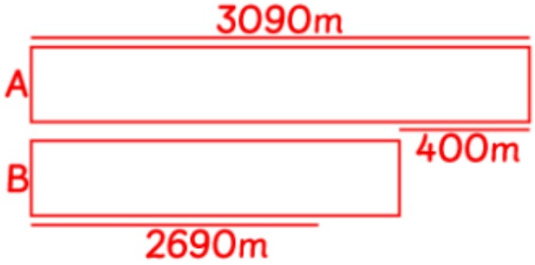
show your working

4 Road A measured 3090 m.
Road A measured 400 m longer than Road B.
What was the length of Road B?

Going Deeper

show your working

4 Road A measured 3090 m.
Road A measured 400 m longer than Road B.
What was the length of Road B?



3090 - 400 = 2690

The length of road B is 2690m