Measure length

1 What is the length of each line?

a)

$\boxed{}$ cm

b)

$\boxed{}$ cm

c)

$\boxed{}$ cm
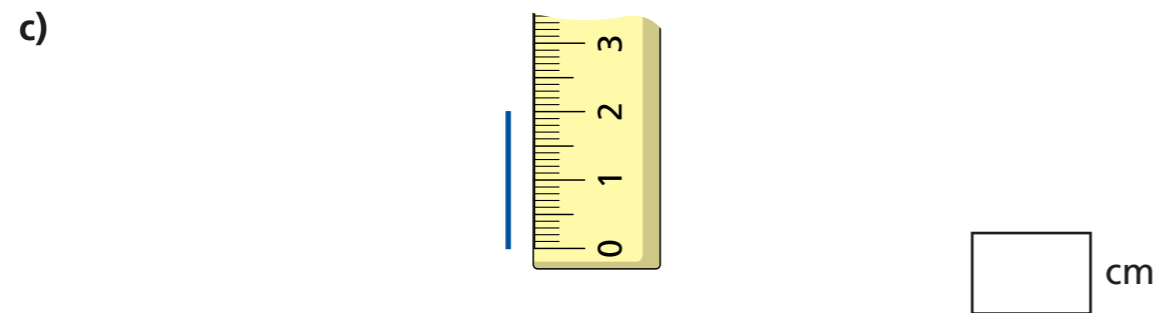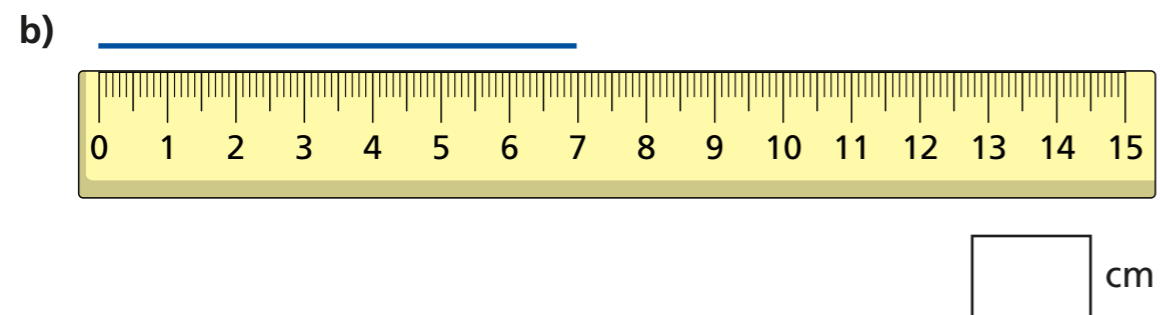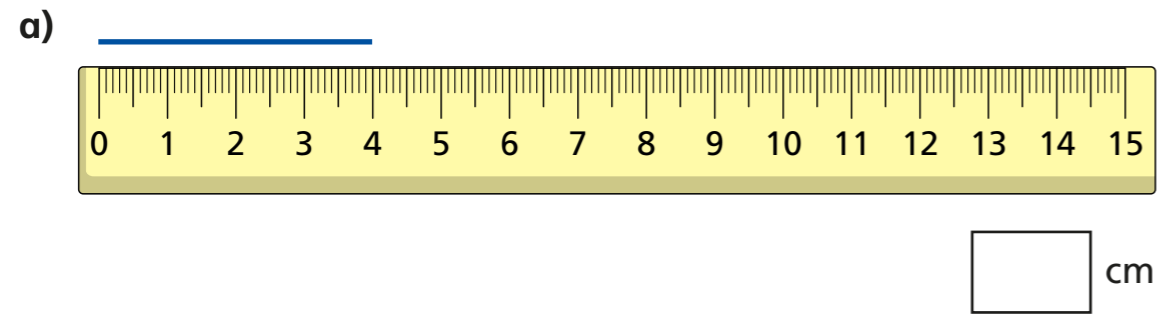
2 Write the length of each line to the nearest millimetre.

a)

$\boxed{}$ mm

b)

$\boxed{}$ mm

c)
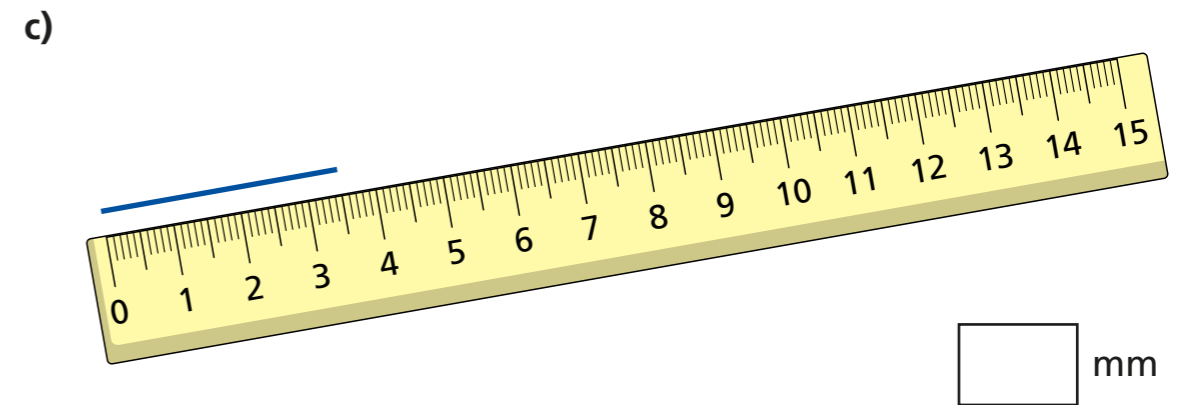
$\boxed{}$ mm
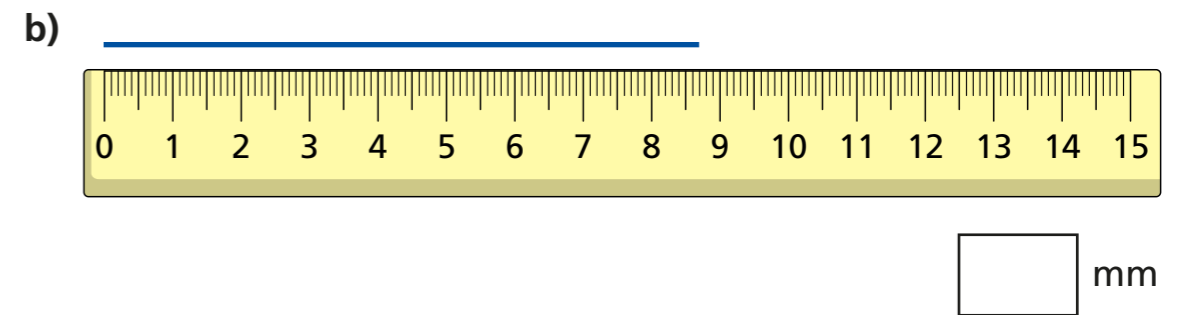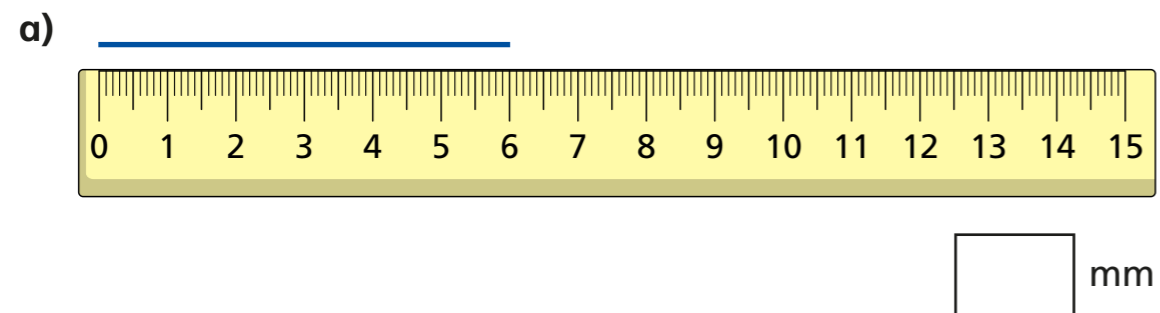
3 Use a ruler to draw lines of these lengths.

a) 5 cm

b) 75 mm

c) 42 mm
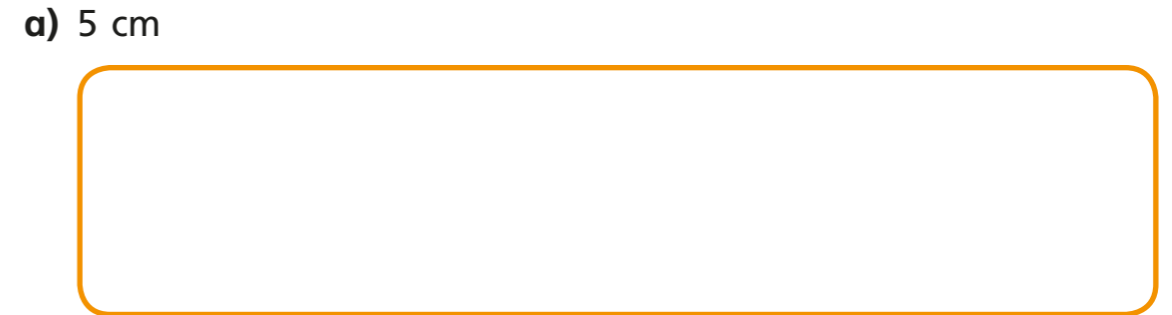
4 How long is the paintbrush?
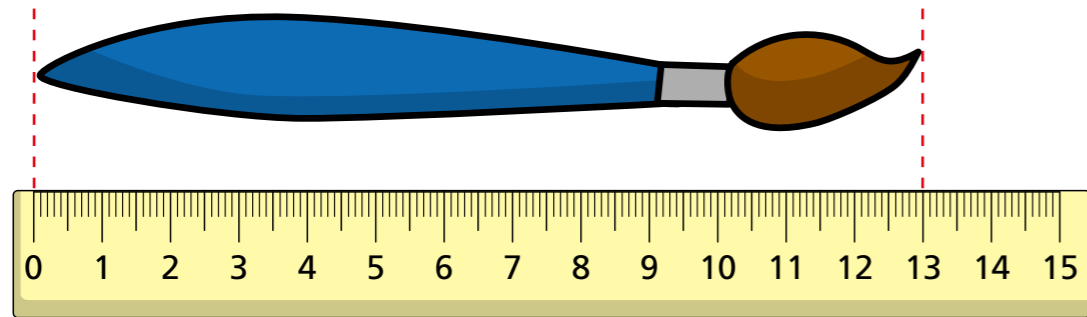
The paintbrush is ☐ cm long.

5 How long is the toy car?
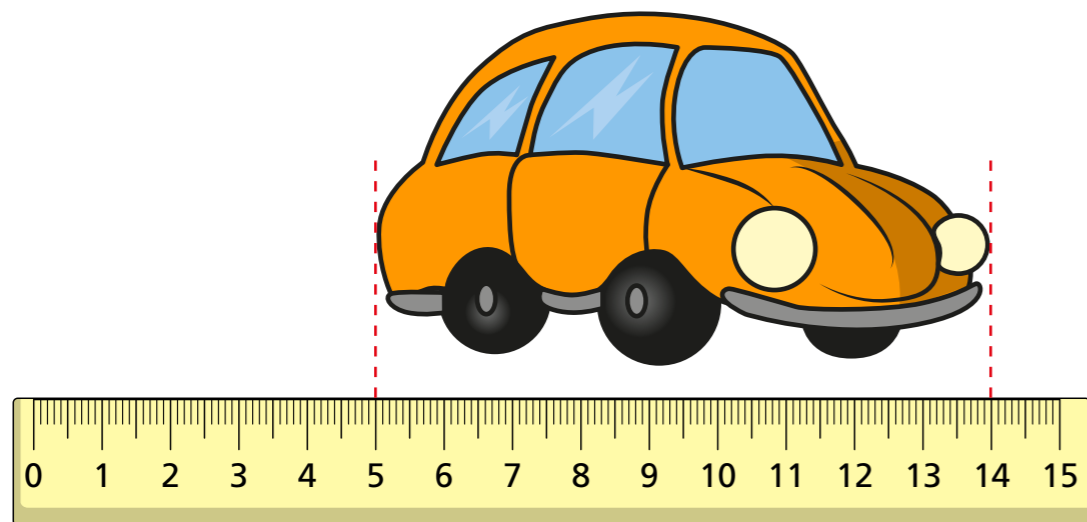
The toy car is ☐ cm long.

6 How tall is the baby giraffe?
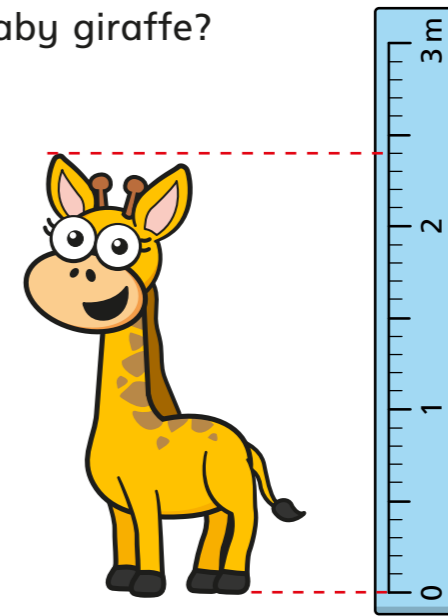
The baby giraffe is ☐ m and ☐ cm tall.

7 Tick the most sensible estimate for the height of a classroom door.

20 cm	2 m	20 m
☐	☐	☐

8 Find items in the classroom that are the following lengths.

Write your answers in the table.

Less than 10 cm long	Between 10 cm and 1 m long	More than 1 m tall

Compare with a partner.

Equivalent lengths – m and cm

1 There are 100 centimetres (cm) in 1 metre (m).

Use the bar models to complete the sentences.

1 m
100 cm

a)

1 m	1 m	1 m

There are ⬚ cm in 3 m.

b)

1 m	1 m	1 m	1 m	1 m	1 m

There are ⬚ cm in 6 m.

c)

100 cm	100 cm	100 cm	100 cm	100 cm

There are 500 cm in ⬚ m.

2 Complete the table to show equivalent lengths and continue the pattern.

cm	m and cm
310 cm	3 m and 10 cm
320 cm	⬚ m and ⬚ cm
330 cm	⬚ m and ⬚ cm
⬚ cm	3 m and 40 cm
⬚ cm	3 m and 50 cm
⬚ cm	⬚ m and ⬚ cm
⬚ cm	⬚ m and ⬚ cm

3 Write the missing measurements.

⬚ cm   ⬚ m ⬚ cm

0 m   1 m   2 m

⬚ cm
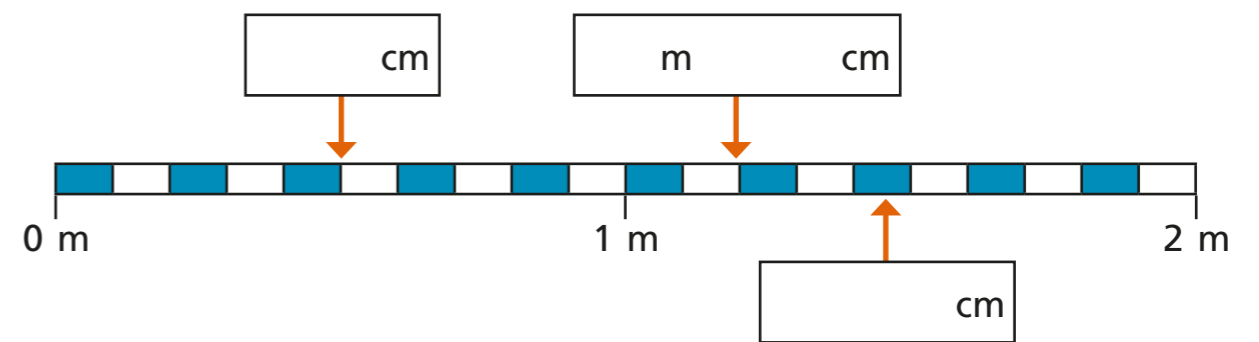
4 Draw an arrow to show the position of each measurement.

0 m   1 m   2 m
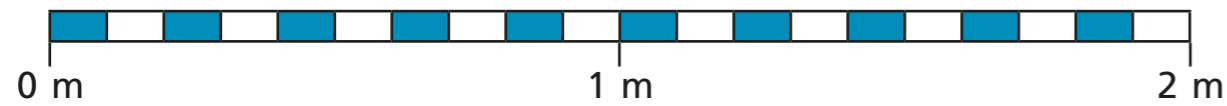
A	B	C	D
20 cm	0 m 75 cm	130 cm	1 m 65 cm

5 Complete the bar models.

a)

160 cm	
m	cm

c)

	cm
4 m	10 cm

b)

268 cm	
m	cm

d)

	cm
2 m	5 cm
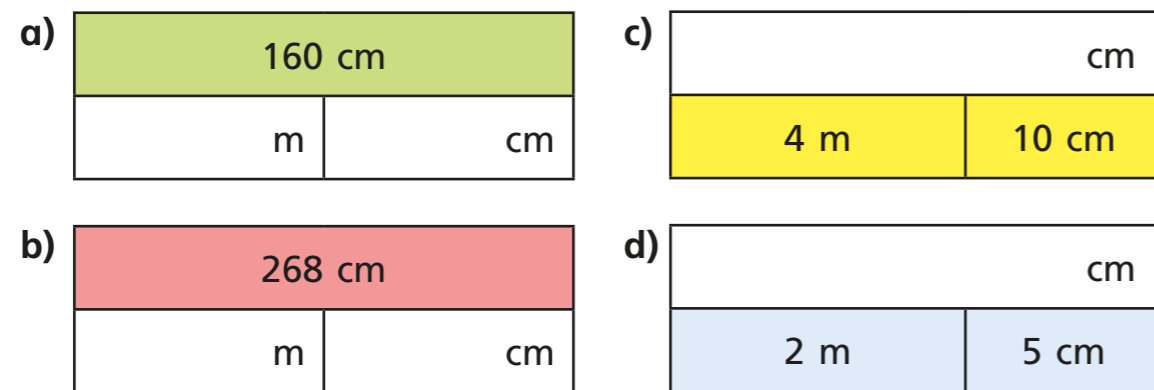
6 Complete the sentences.

a) 240 cm = ☐ m and ☐ cm

b) 319 cm = ☐ m and ☐ cm

c) 508 cm = ☐ m and ☐ cm

d) 2 m and 15 cm = ☐ cm

e) 8 m and 3 cm = ☐ cm

7 Here is Huan's sunflower.

190 cm
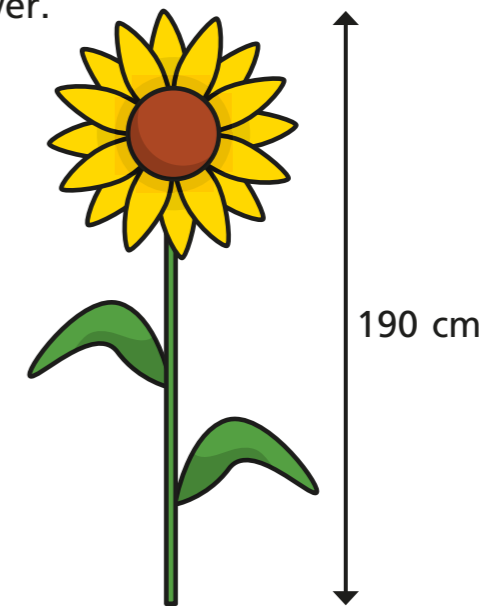
Dani's sunflower is 2 m and 30 cm.

Tom's sunflower is exactly halfway between Huan's and Dani's.

How tall is Tom's sunflower?

Write your answer in metres and centimetres.

☐ m and ☐ cm

Equivalent lengths – mm and cm

1 There are 10 millimetres (mm) in 1 centimetre (cm).

Use the bar models to complete the sentences.

1 cm
10 mm

a)

1 cm	1 cm	1 cm

There are [   ] mm in 3 cm.

b)

1 cm	1 cm	1 cm	1 cm	1 cm	1 cm	1 cm

There are [   ] mm in 7 cm.

c)

10 mm	10 mm	10 mm	10 mm

There are 40 mm in [   ] cm.

2 Match the equivalent lengths.

1 cm 3 mm	3 cm 1 mm	30 mm	33 mm	30 cm

300 mm	13 mm	31 mm	3 cm 0 mm	3 cm 3 mm

3 How long are the scissors?
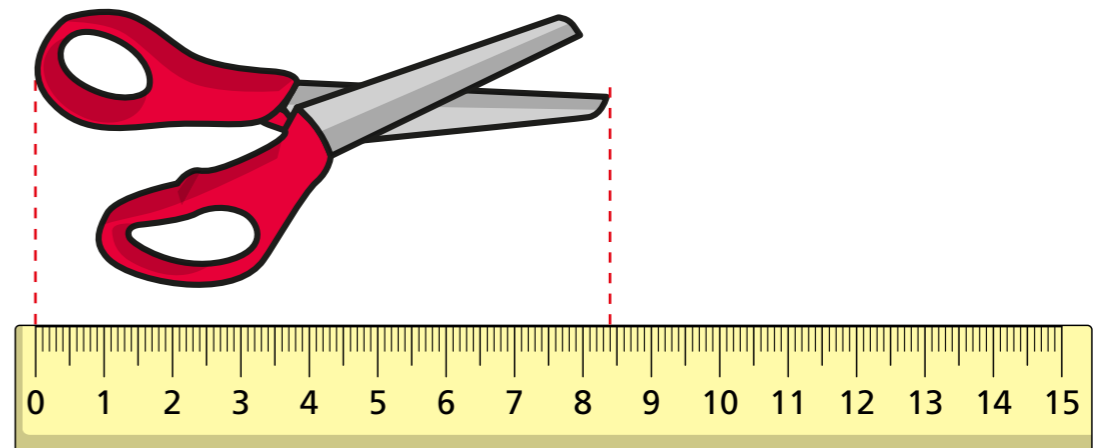
The scissors are [   ] cm and [   ] mm long.

The scissors are [   ] mm long.

4 Find three items in your classroom.

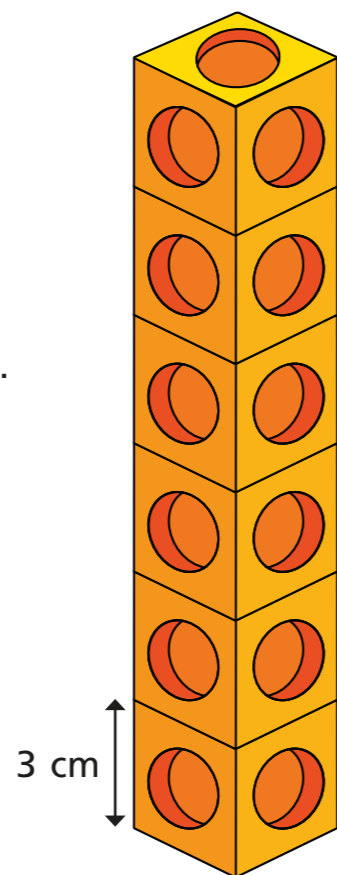Measure them and complete the table.

One has been done for you.

Item	Length in cm and mm	Length in mm
toy car	9 cm 6 mm	96 mm

5 Filip and Kim are building towers using cubes.

Each cube is 3 cm high.

a) Filip uses 6 cubes.

How tall is Filip's tower?

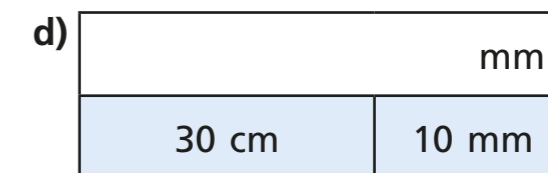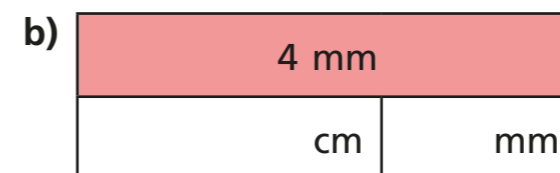Give your answer in millimetres.

Filip's tower is ☐ mm tall.

3 cm

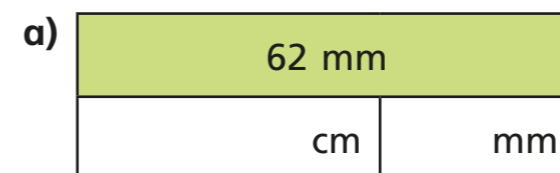**b)** Kim's tower is 300 mm tall.

How many cubes does she use?

Kim uses ☐ cubes.

6 Complete the bar models.

a)

62 mm	
cm	mm

c)

	mm
30 cm	1 mm

b)

4 mm	
cm	mm

d)

	mm
30 cm	10 mm
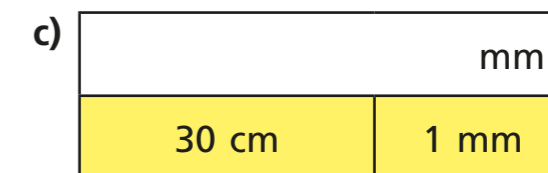
Compare lengths

1 Write <, > or = to compare the lengths.

a) 60 mm ◯ 6 cm   c) 5 cm ◯ 45 mm

b) 1 m 50 cm ◯ 115 cm   d) 100 mm ◯ 1 m

How did you work this out?

2 Eva, Mo, Alex and Dexter have each built a tower.

Use the table to complete the sentences.

Child	Height of tower
Eva	1 m 5 cm
Mo	135 cm
Alex	1 m 45 cm
Dexter	1 m 25 cm

a) _____'s tower is the tallest.

b) _____'s tower is the shortest.

c) Mo's tower is _____ than Dexter's.

d) Eva's tower is _____ than Alex's.

3 Write the following lengths in order from shortest to longest.

| 160 cm | 950 mm | 1m 50 mm | 200 cm | 1 m 25 cm |

| | | | | |

shortest   longest

4 Jack, Tommy, Rosie and Whitney have a jumping competition.
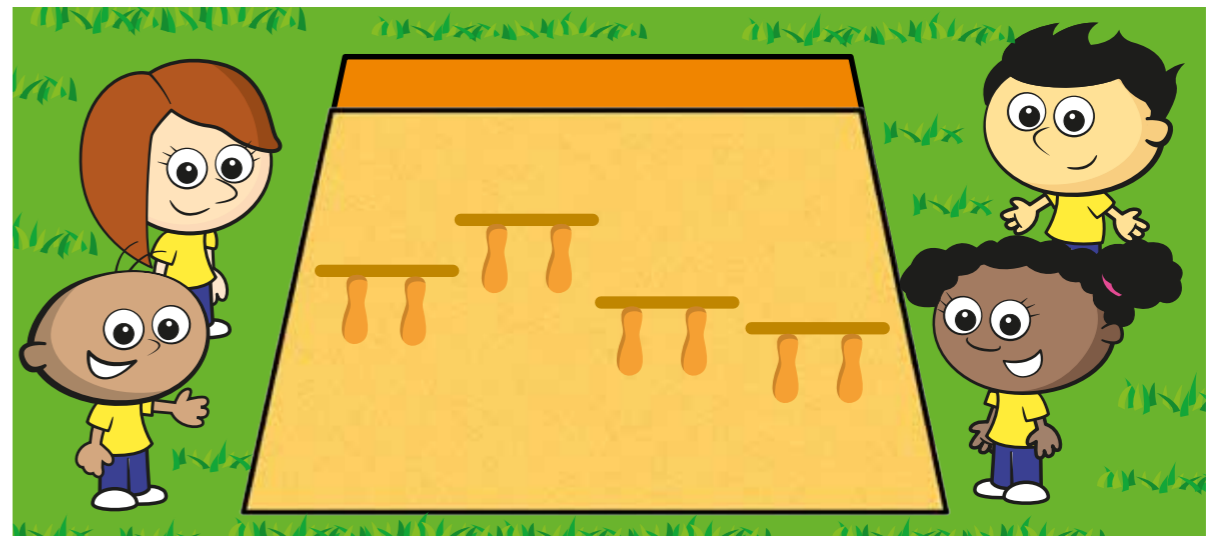
Here are the results.

Jack	Tommy	Rosie	Whitney
870 mm	105 cm	1 m and 30 mm	1 m and 10 cm

The person who jumped the furthest wins the competition.

Put the children in order from 1st to 4th place.

_____   _____   _____   _____

1st   2nd   3rd   4th

5 Measure the height of four of your classmates.

Measure their foot length and then complete the table.

Name	Height in cm	Foot length in cm

What have you found? Do taller people have longer feet?

6 Measure the height of four of your classmates.

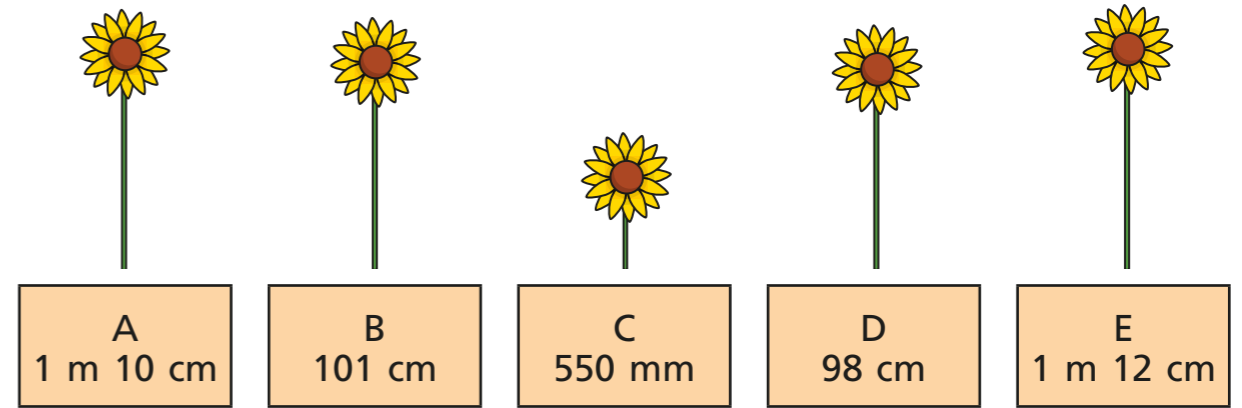Measure how far they can jump and then complete the table.

Name	Height in cm	Jump length in cm

Talk about what your results show.

Can taller people jump further?

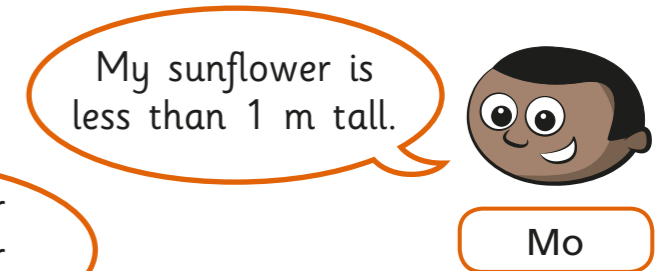**7** Teddy, Mo, Amir, Dora and Annie have each grown a sunflower.

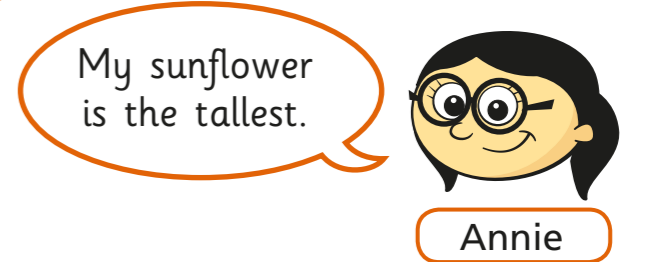Use the clues below to work out which sunflower belongs to which child.

A	B	C	D	E
1 m 10 cm	101 cm	550 mm	98 cm	1 m 12 cm

Amir: My sunflower is twice as tall as Teddy's.

Mo: My sunflower is less than 1 m tall.

Dora: My sunflower is 3 cm taller than Mo's.

Annie: My sunflower is the tallest.

Write the owner of each sunflower.

sunflower A: _____   sunflower D: _____

sunflower B: _____   sunflower E: _____

sunflower C: _____