

23.2.21

LO. To convert between centimetres and millimetres

Level 1

- 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.

- d) Convert the lengths of these animals from centimetres (cm) to millimetres (mm)



7 cm = ____ mm

2 cm = ____ mm

- e) Convert the lengths of these animals from millimetres (mm) to centimetres (cm)



10 mm = ____ cm

100 mm = ____ cm

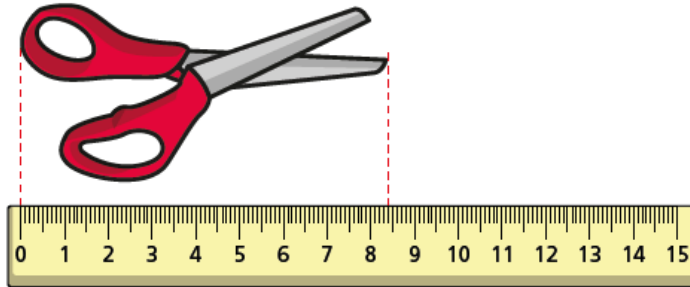
- 2 Match the equivalent lengths.

1 cm 3 mm	3 cm 1 mm	30 mm	33 mm	30 cm
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300 mm	13 mm	31 mm	3 cm 0 mm	3 cm 3 mm
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Level 2

- 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. (or at home!)

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

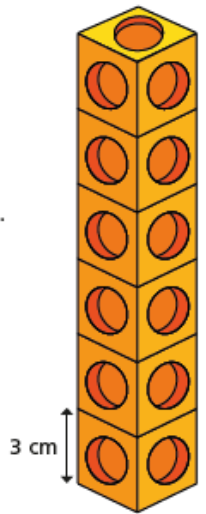
- 5 Filip and Kim are building towers using cubes. Each cube is 3 cm high.

- a) Filip uses 6 cubes.

How tall is Filip's tower?

Give your answer in millimetres.

Filip's tower is mm tall.

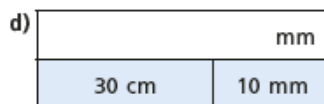
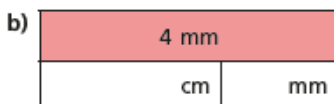
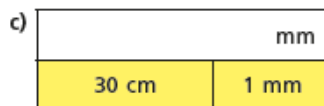
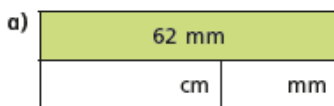


- b) Kim's tower is 300 mm tall.

How many cubes does she use?

Kim uses cubes.

- 6 Complete the bar models.



7. Convert the lengths of these animals from centimetres (cm) to millimetres (mm)



7 cm 1mm = ____ mm 2 cm 2mm = ____ mm

8. Convert the lengths of these animals from millimetres (mm) to centimetres (cm)



11 mm = ____ cm ____ mm



115 mm = ____ cm ____ mm

Level 3 – Challenges

9. Rosie is measuring a sunflower using a 30 cm ruler.

Rosie says,



The sunflower
is 150 cm tall.

Rosie is incorrect.

Explain what mistake she might have made.

How tall is the sunflower?

10. Ron is thinking of a measurement.

Use his clues to work out which measurement he is thinking of.



- In mm, my measurement is a multiple of 2
- It has 8 cm and some mm
- It's less than 85 mm
- In mm, the digit sum is 12