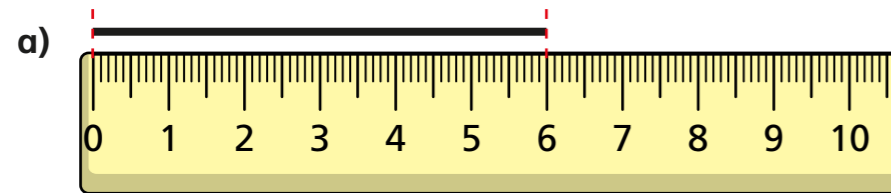
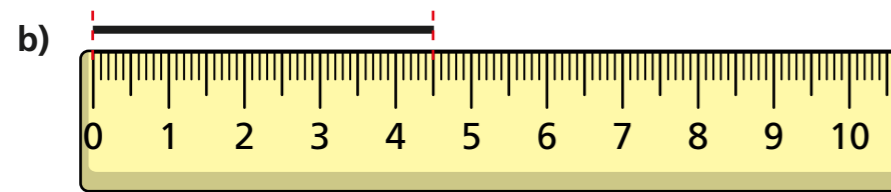


Metric units

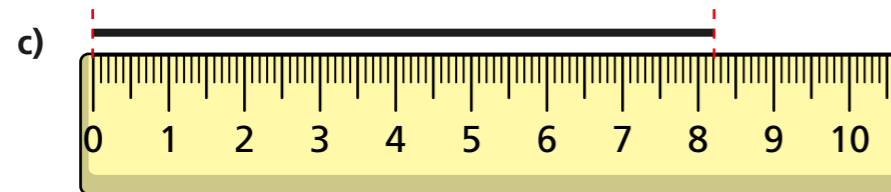
- 1 How long is each line?
Give your answer in both centimetres and millimetres.



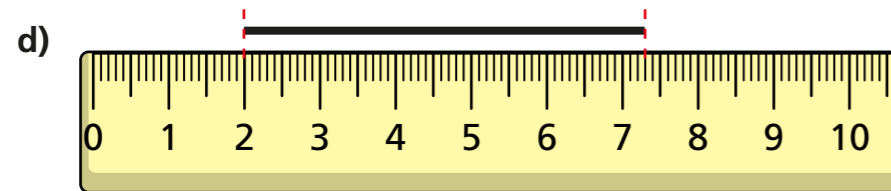
6 cm 60 mm



4.5 cm 45 mm



8.2 cm 82 mm



5.3 cm 53 mm

- 2 Complete the conversion.

1 cm = 10 mm

- 3 Dexter is converting units of measure.



If I know how many millimetres are in 1 cm, and how many centimetres are in 1 m, then I can work out how many millimetres are in 1 m.

Complete Dexter's workings to show that he is correct.

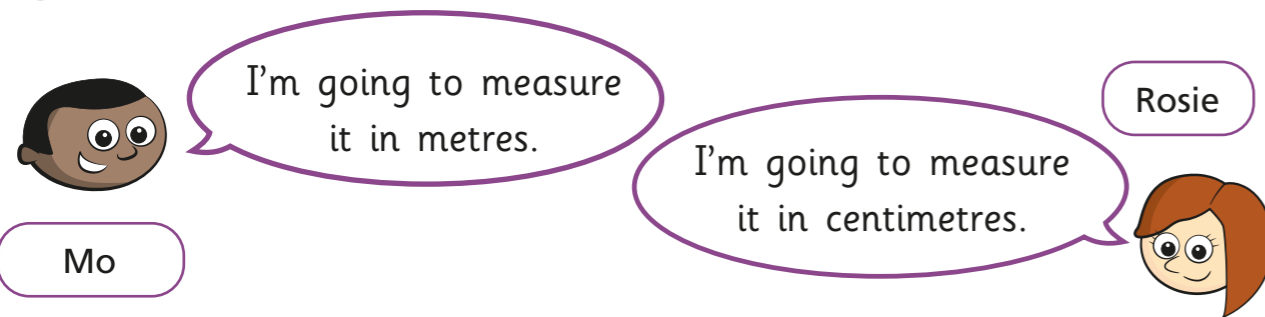
1 m = 100 cm
1 cm = 10 mm
so, 1 m = 1,000 mm

What other conversions could you work out using Dexter's method?

- 4 Complete the conversions.

- a) 15 cm = 150 mm e) 20 cm = 0.2 m
b) 12 m = 1,200 cm f) 4.65 m = 465 cm
c) 16.5 m = 1,650 cm g) 52,000 mm = 5,200 cm
d) 1,650 mm = 165 cm h) 52,000 mm = 52 m

5 Mo and Rosie are measuring the length of the playground.



Mo: I'm going to measure it in metres.

Rosie: I'm going to measure it in centimetres.

a) Whose unit of measure is more appropriate? Mo

Explain your answer.

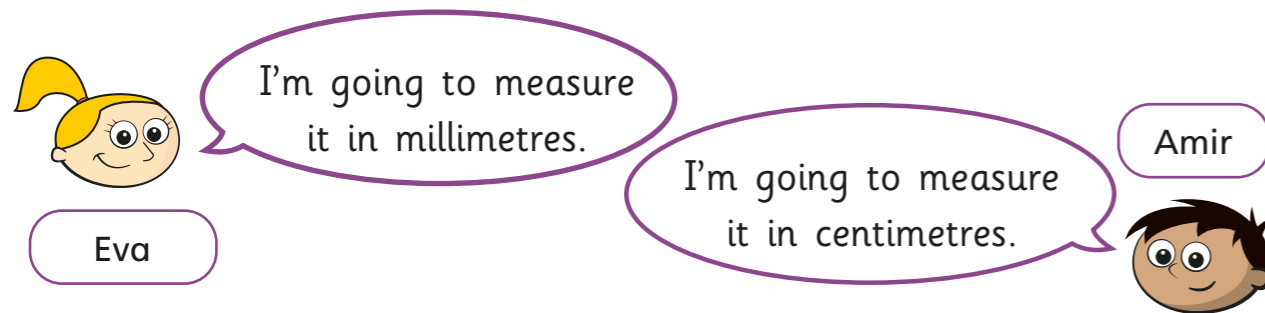
b) Rosie has measured the length of the playground as 563 cm.

What answer will Mo get in metres?

5.63 m



6 Eva and Amir are measuring the length of a paper clip.



Eva: I'm going to measure it in millimetres.

Amir: I'm going to measure it in centimetres.

a) Whose unit of measure is more appropriate? Eva

Explain your answer.

b) Amir has measured the length of the paper clip as 0.8 cm.

What answer will Eva get in millimetres?

8 mm



7 The table shows the heights of four sunflowers.

Sunflower	A	B	C	D
Height	0.86 m	91 cm	640 mm	72 cm

Put the sunflowers in order, starting with the shortest.

C D A B



8 The depth of a plank is 15 mm.

12 of the planks are stacked on top of each other.

What is the depth of the stack of planks?

Give your answer in centimetres.



18 cm

9 Dexter is 146 cm tall.

Annie is 0.27 m shorter than Dexter.

How tall is Annie?

Give your answer in metres.

1.19 m

10 The thickness of a 20p coin is 2 mm.

Tommy stacks £4 worth of 20p coins on top of each other.

How tall is the stack of coins?

Give your answer in centimetres.



4 cm

