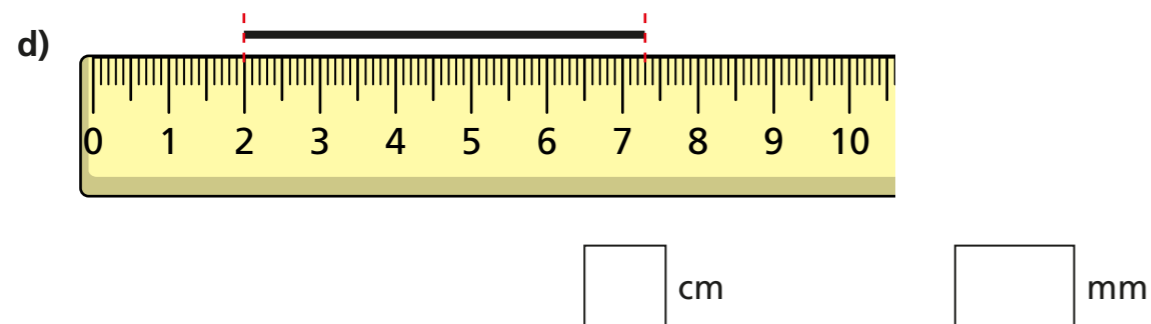
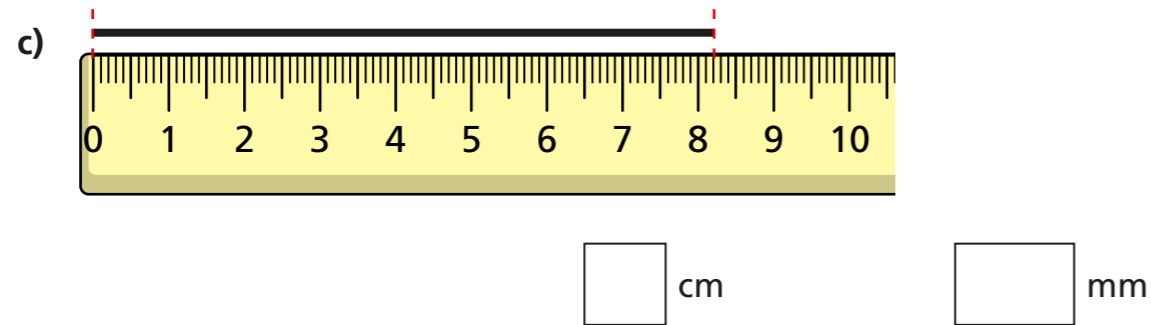
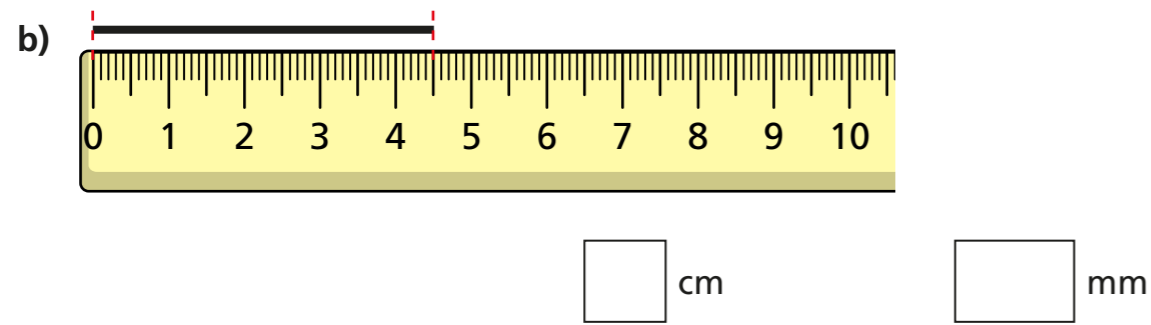
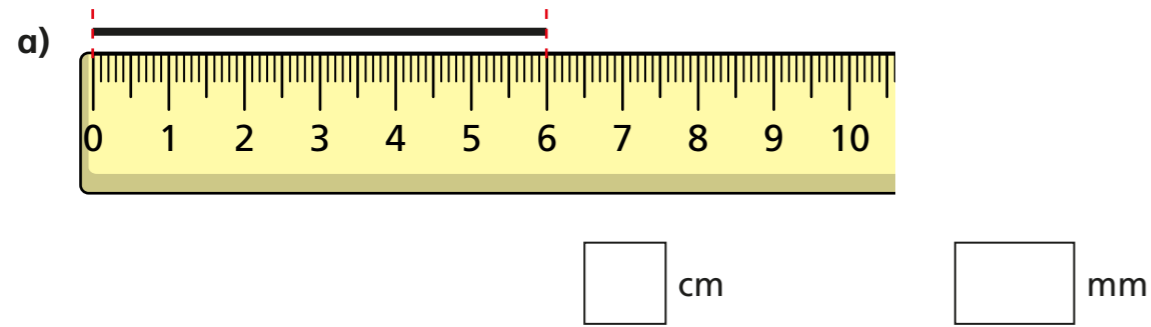


Metric units

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



- 2 Complete the conversion. $1 \text{ cm} = \text{ } \text{ mm}$

- 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.

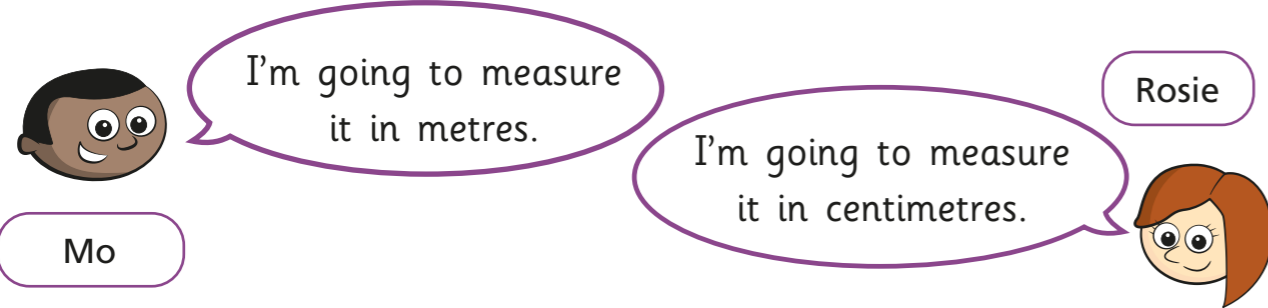
1 m = cm
1 cm = mm
so, 1 m = mm

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

- 4 Complete the conversions.

- a) $15 \text{ cm} = \text{ } \text{ mm}$ e) $\text{ } \text{ cm} = 0.2 \text{ m}$
b) $12 \text{ m} = \text{ } \text{ cm}$ f) $4.65 \text{ m} = \text{ } \text{ cm}$
c) $16.5 \text{ m} = \text{ } \text{ cm}$ g) $52,000 \text{ mm} = \text{ } \text{ cm}$
d) $\text{ } \text{ mm} = 165 \text{ cm}$ h) $52,000 \text{ mm} = \text{ } \text{ m}$

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? _____

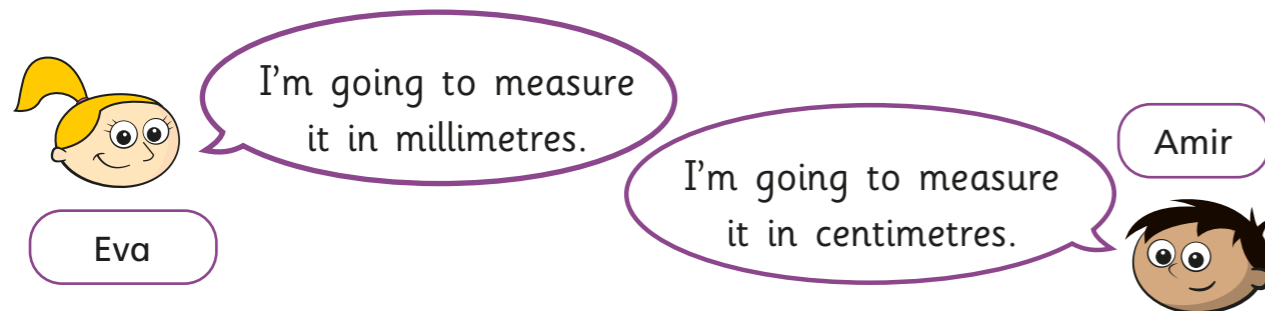
Explain your answer.

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

What answer will Mo get in metres?

 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? _____

Explain your answer.

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

What answer will Eva get in millimetres?

 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.



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.


 cm

9 Dexter is 146 cm tall.

Annie is 0.27 m shorter than Dexter.

How tall is Annie?

Give your answer in metres.

 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.


 cm
