


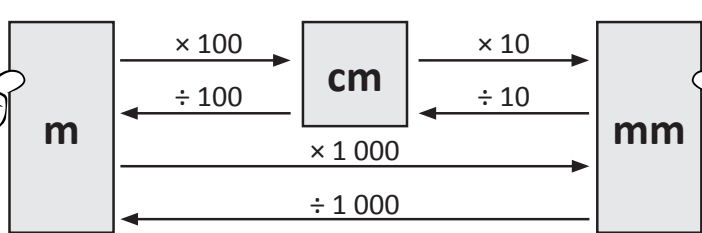
# Units of length – m, cm, mm

This conversion box can help you convert units of length.


**To convert from cm to mm, multiply by 10.**



**REMEMBER**

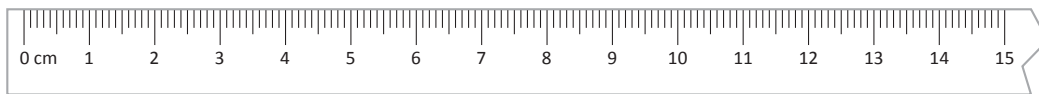


**To convert from mm to cm, divide by 10.**



**REMEMBER**

**3 Convert these lengths to millimetres:**



a 5 cm =  mm

b 3 cm =  mm

c 9 cm =  mm

d 7 cm =  mm

e 11 cm =  mm

f 15 cm =  mm

**4 Convert these lengths to centimetres:**

a 50 mm =  cm

b 20 mm =  cm

c 223 mm =  cm

d 15 mm =  cm

e 156 mm =  cm

f 495 mm =  cm

**5 Convert these lengths to metres:**

a 300 cm =  m

b 500 cm =  m

c 250 cm =  m

d 900 cm =  m

e 2000 cm =  m

f 4550 cm =  m


**6 Convert these lengths to metres:**

a 1000 mm =  m

b 5000 mm =  m

c 4500 mm =  m

d 500 mm =  m

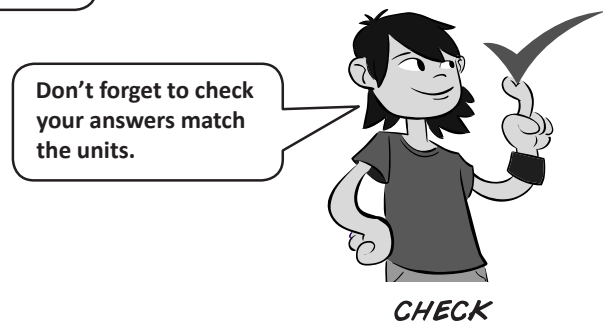
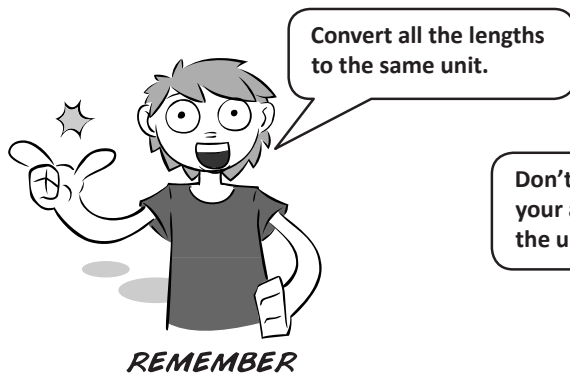
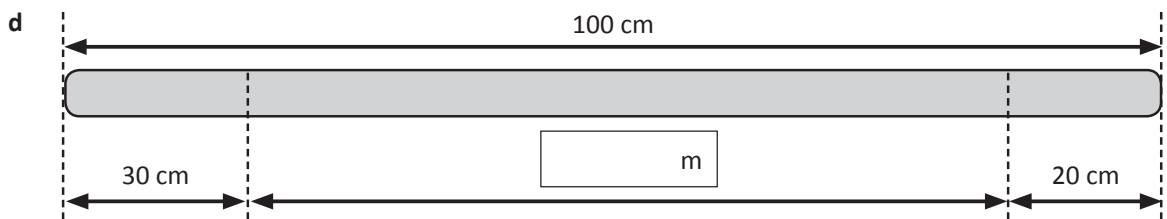
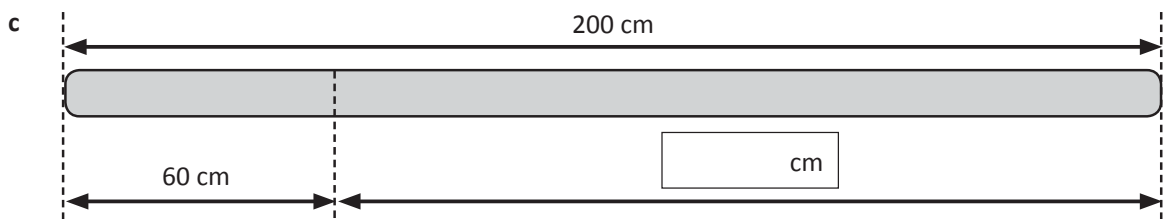
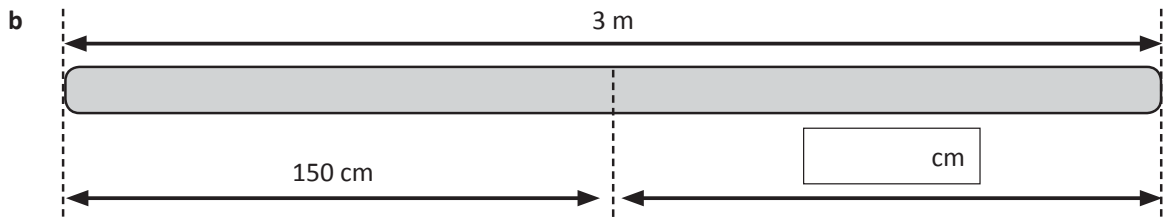
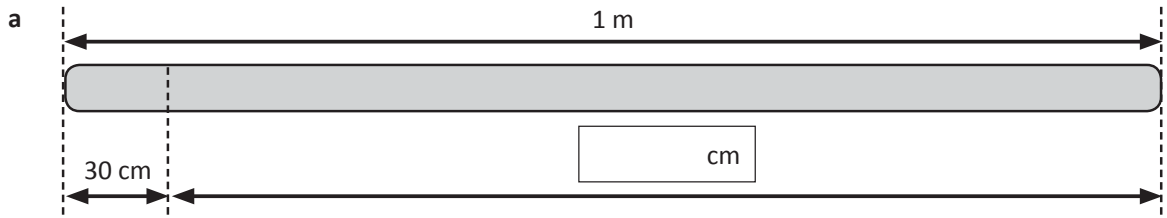


**To convert from mm to m, divide by 1000.**

**DISCOVER**

# Units of length – find and order length

1 Look carefully at how each shape is divided and find the missing length:



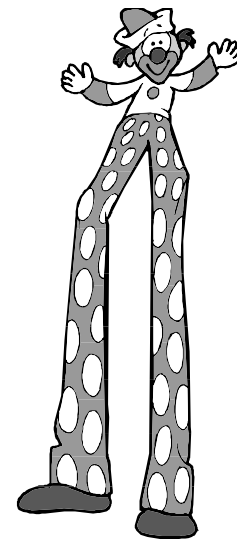
## Units of length – find and order length

2 Here is a list of some objects and their heights. Put them in order from shortest to tallest:

door	1.95 m	1	_____	↑ Shortest ↓ Tallest
flagpole	16 m	2	_____	
fridge	145 cm	3	_____	
ladybird	2 mm	4	_____	
tree	11 m	5	_____	
giraffe	457 cm	6	_____	

3 Mr Marlowe's class went on an excursion to the circus. He asked his students to guess the height of a clown on stilts. Fill in the missing heights:

Name	Height of the Clown on Stilts		
Peter	3 m 30 cm		3.3 m
Sara		415 cm	4.15 m
Omar	3 m 64 cm		3.64 m
Julia		397 cm	3.97 m
Heba	4 m 9 cm	409 cm	



It turned out that the clown was 3 m and 58 cm tall.

- Who had the closest guess? \_\_\_\_\_
- How far off was this person? \_\_\_\_\_
- What was the difference between the highest and the lowest guess? \_\_\_\_\_
- Write your height and find the two people in your class who are closest to your height.

# Units of length – metres to kilometres

Which units of measurement do we already know about?

$$1 \text{ km} = 1\,000 \text{ m}$$

$$1 \text{ m} = 0.001 \text{ km}$$

$$100 \text{ m} = 0.1 \text{ km}$$



To convert from km to m, multiply by 1 000. To convert from m to km, divide by 1 000.

**1** Would you use metres or kilometres to measure the following lengths?

a Driveway

b Distance from Melbourne to Sydney

c Height of your house

d A marathon race

e Distance from Earth to the Moon

f Distance around the school oval

**2** Write these lengths in kilometres:

a  $2000 \text{ m} =$    $\text{ km}$

b  $5000 \text{ m} =$    $\text{ km}$

c  $8000 \text{ m} =$    $\text{ km}$

d  $1500 \text{ m} =$    $\text{ km}$

e  $3645 \text{ m} =$    $\text{ km}$

f  $1747 \text{ m} =$    $\text{ km}$

**3** Write these lengths in metres:

a  $3 \text{ km} =$    $\text{ m}$

b  $7 \text{ km} =$    $\text{ m}$

c  $4 \text{ km} =$    $\text{ m}$

d  $0.5 \text{ km} =$    $\text{ m}$

e  $3.7 \text{ km} =$    $\text{ m}$

f  $8.2 \text{ km} =$    $\text{ m}$

**4** Which is shorter? Circle the shorter distance:

a  2 km or 2220 m

b  0.58 km or 600 m

c  3.2 km or 3100 m

d  0.75 km or 0.79 km

e  560 m or 0.565 km

f  5.5 km or 5600 m

**5** Which is longer? Circle the longer distance:

a  300 km or 2500 m

b  0.85 km or 800 m

c  1900 m or 2.9 km

d  1.58 km or 1600 m

e  855 m or 0.875 km

f  7.25 km or 7200 m