

# Convert metric measures

1 How many centimetre cubes can you fit along a metre stick?




What does this tell you?



2 Complete the sentences.

a) There are  grams in 1 kilogram.

There are  kilograms in one tonne.

b) There are  millilitres in 1 litre.

c) There are  millimetres in 1 centimetre

There are  centimetres in 1 metre.

There are  metres in 1 kilometre.

3 Complete the bar models.

a)

1 km	1 km	1 km	1 km
1,000 m	1,000 m		

There are  m in 4 km.

b)

1 kg	1 kg	1 kg	1 kg	1 kg	1 kg	$\frac{1}{2}$ kg
1,000 g	1,000 g	1,000 g				

There are  g in  $6\frac{1}{2}$  kg.

4 Complete the conversions.

a) 2 kg =  g

b) 1 l =  ml

5 kg =  g

5 l =  ml

10 kg =  g

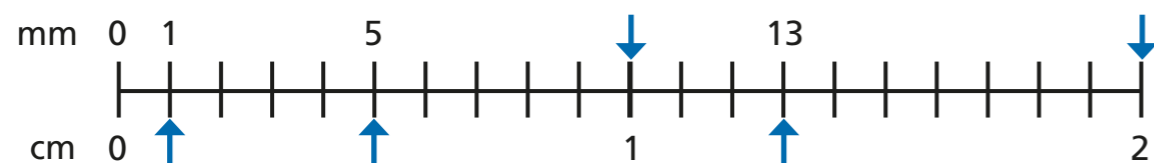
11 l =  ml

12 kg =  g

5 A bag of dog food weighs 2.5 kg.  
Write this weight in grams.



- 6 What measurements are the arrows pointing to?  
Label them on the number line.



- 7 Complete the conversions.

a)  $10 \text{ mm} = \square \text{ cm}$        $\square \text{ mm} = 1.1 \text{ cm}$

$11 \text{ mm} = \square \text{ cm}$        $\square \text{ mm} = 10.1 \text{ cm}$

$\square \text{ mm} = 11 \text{ cm}$

b)  $2.1 \text{ km} = \square \text{ m}$        $2.01 \text{ km} = \square \text{ m}$

$2.001 \text{ km} = \square \text{ m}$        $2.011 \text{ km} = \square \text{ m}$

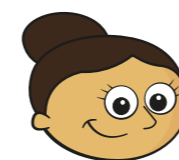
- 8 Write  $>$ ,  $<$  or  $=$  to complete the statements.

a)  $100 \text{ m} \bigcirc 1 \text{ km}$       b)  $5.1 \text{ l} \bigcirc 5,100 \text{ ml}$

$10 \text{ m} \bigcirc 10 \text{ cm}$        $607 \text{ l} \bigcirc 0.607 \text{ ml}$

$10.1 \text{ mm} \bigcirc 101 \text{ cm}$        $0.05 \text{ l} \bigcirc 5 \text{ ml}$

- 9 Dora and Amir are trying to convert 1.05 metres into millimetres.



Dora

You can multiply 1.05 by 100 to convert it into centimetres, then multiply the product by 10 to convert it into millimetres.

Amir

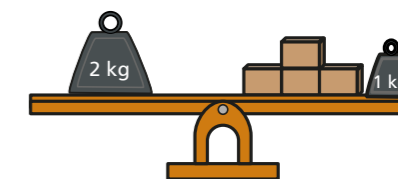
You can just multiply 1.05 by 1,000!



Who do you agree with? \_\_\_\_\_

Explain your thinking.

- 10 What is the mass of one of the boxes?  
Give your answer in grams.




- 11 There are 1,000 kg in one tonne.

a) How many grams are there in one tonne?

b) A car weighs 1.3 tonnes.

Write the weight of the car in grams.