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 1 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

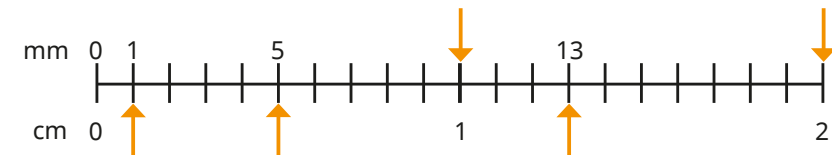5 kg = ☐ g   5 l = ☐ ml

10 kg = ☐ g   11 l = ☐ ml

12 kg = ☐ g   0.5 l = ☐ ml

5 The mass of a bag of dog food is 2.5 kg.
Write this mass in grams.

6 What measurements are the arrows pointing to?

7 Complete the conversions.

a) 10 mm = ☐ cm   ☐ mm = 11 cm

11 mm = ☐ cm   ☐ mm = 1.1 cm

b) 2.1 km = ☐ m   2.01 km = ☐ m

2.001 km = ☐ m   2.011 km = ☐ m

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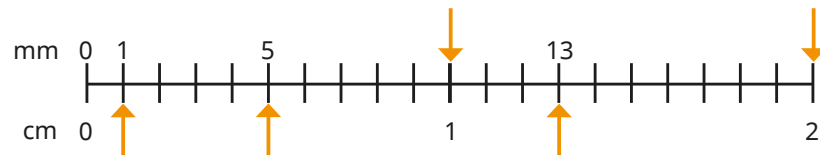
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11 mm = [ ] cm   [ ] mm = 1.1 cm

b) 2.1 km = [ ] m   2.01 km = [ ] m

2.001 km = [ ] m   2.011 km = [ ] m

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

a) 100 m ◯ 1 km   **b)** 5.1 l ◯ 5,100 ml

10 m ◯ 10 cm   607 l ◯ 0.607 ml

10.1 mm ◯ 101 cm   0.05 l ◯ 5 ml

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

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

Dora

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) The mass of a car is 1.3 tonnes.

Write the mass of the car in grams.