

Year 6

Wednesday 24th June 2020

Maths

LO: Convert Metric Measures



**The video of this lesson is available here – Summer
Term – Week 8 - lesson 3**

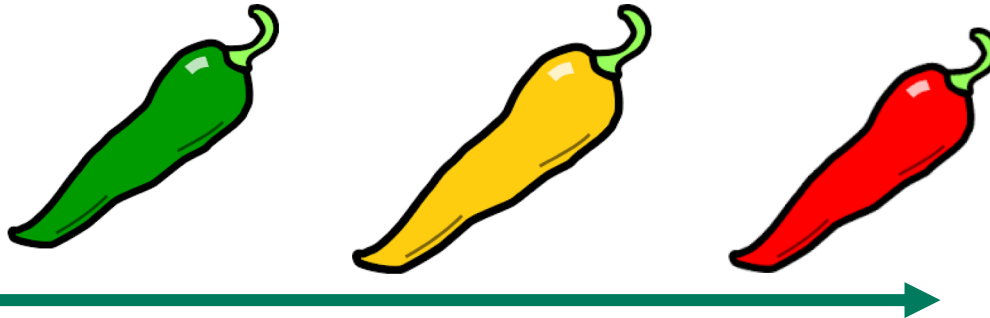
**This link works on the printable version and is
available above the PowerPoint.**

**You will need to watch this video to learn the
skills you need in this lesson.**



The independent work continues on the next two slides. There are 10 questions and 1 extension.

(Español – diez preguntas y una extensión)



*The chili suggests a good starting point.
If you have time you can complete all the independent work!*

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

5 kg = g

10 kg = g

12 kg = g

b) 1 l = ml

5 l = ml

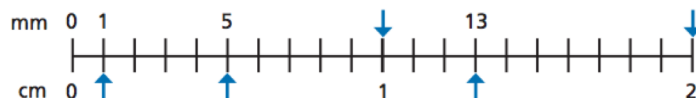
11 l = ml

- 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) $10 \text{ mm} = \boxed{} \text{ cm}$ $\boxed{} \text{ mm} = 1.1 \text{ cm}$

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

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

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

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

- 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.



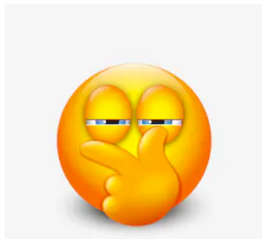
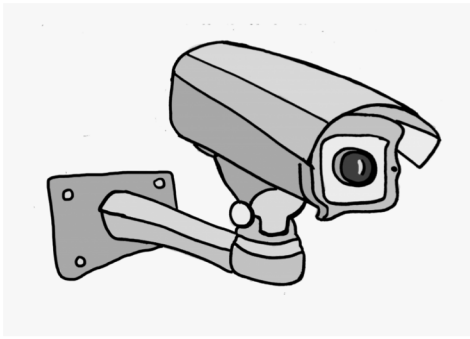
Ext:

There are 1,000 kg in one tonne.

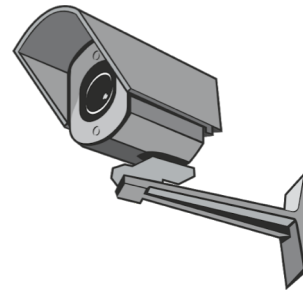
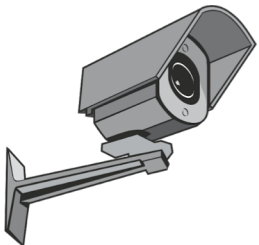
- a) How many grams are there in one tonne?

- b) A car weighs 1.3 tonnes.

Write the weight of the car in grams.



The next two slides contain the answers should you wish to check you work and reflect on what you understand.



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100

What does this tell you?



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There are kilograms in one tonne.

b) There are millilitres in 1 litre.

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There are centimetres in 1 metre.

There are metres in 1 kilometre.

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a)

1 km	1 km	1 km	1 km
1,000 m	1,000 m	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	1,000 g	1,000 g	1,000 g	500 g

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

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5 kg = g

10 kg = g

12 kg = g

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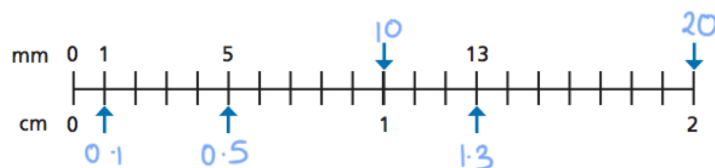
11 l = ml

- 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 mm = cm mm = 1.1 cm

11 mm = cm mm = 10.1 cm

mm = 11 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.



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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? Both

Explain your thinking.

- 10 What is the mass of one of the boxes?

Give your answer in grams.



Ext:

There are 1,000 kg in one tonne.

- a) How many grams are there in one tonne?

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