Week 6 Lesson 2

Can I convert different units of metric measurement?

Fast Five

$$-\frac{3}{4} + \frac{1}{6} =$$

- What is $\frac{1}{5}$ of 45?
- 1548ml = ____ l
- 1.98km = ____ m

Fast Five

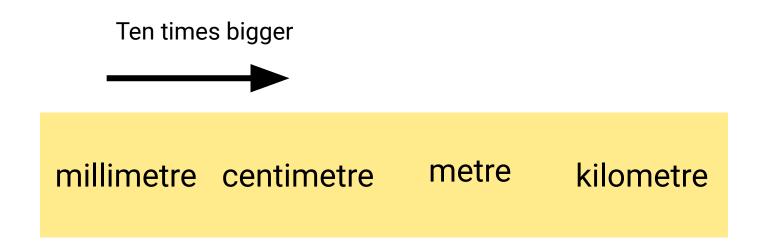
$$\frac{3}{4} + \frac{1}{6} = \frac{11}{12}$$

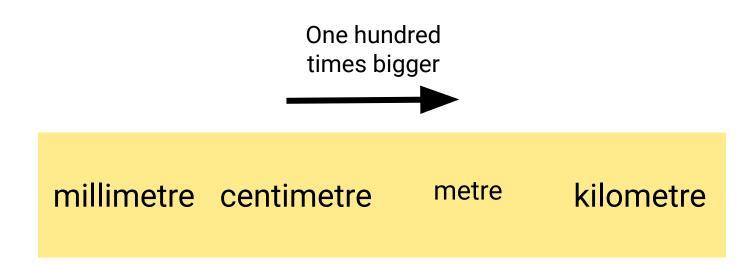
- 2.2kg = 2200g
- What is $\frac{1}{5}$ of 45? 9
- 1548ml = 1.548L
- 1.98km = 1980m

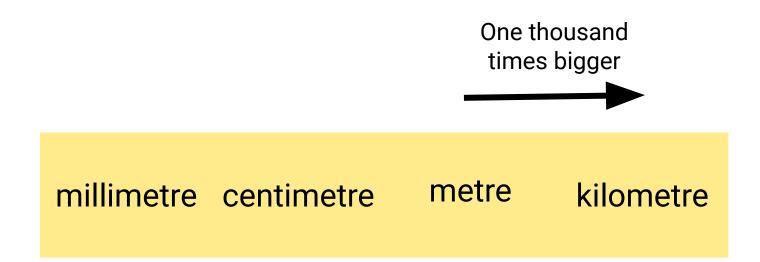
- We looked yesterday at the relationships between metric measurements.
- Kilo is a thousand times greater than the gram/litre/metre
- Milli is a thousand times smaller than the gram/litre/metre

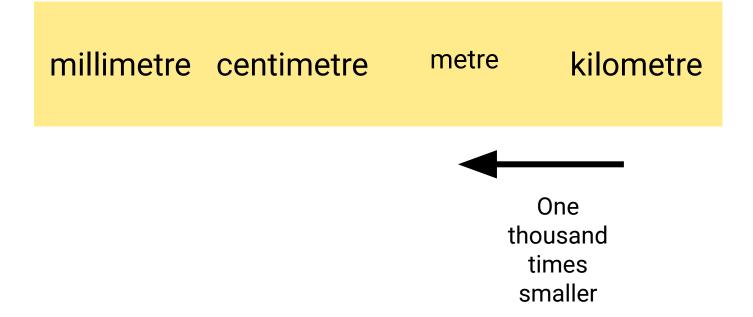
TODAY we are introducing the pre-fix **centi**, this is a 100 times smaller than the gram/litre/metre

KILO	thousand	one thousand times bigger (than gram/metre/litre)				
gram / meter / litre						
centi	hundredth	one hundred times smaller (than gram/metre/litre)				
milli	thousandth	one thousand times smaller (than gram/metre/litre)				









millimetre centimetre metre kilometre

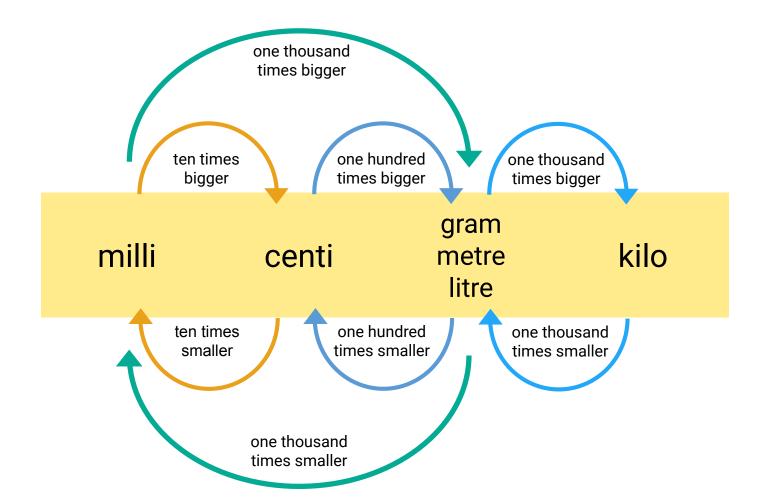


One hundred times smaller

millimetre centimetre metre kilometre



Ten times smaller

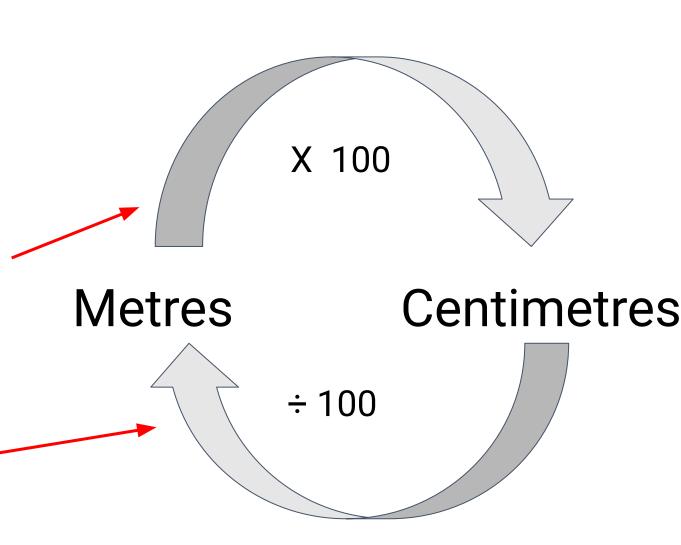


Converting between metres and centimetres

When converting between these units of weight, we can use this diagram to remind us which calculation we need to use.

To convert from metres to centimetres we have to multiply by 100 - this is because there is 100 centimetres in a metre.

To convert from centimetres to metres, we then do the inverse operation and _divide by 100.



Length

1 metre (m) is equal to 100 centimetres (cm). So multiply the metres by 100 to get the number of centimetres.

8m = 800 cm (8 multiplied by 100)

100 centimetres are equal to 1 metre (m), so divide the centimetres by 100 to get the number of metres

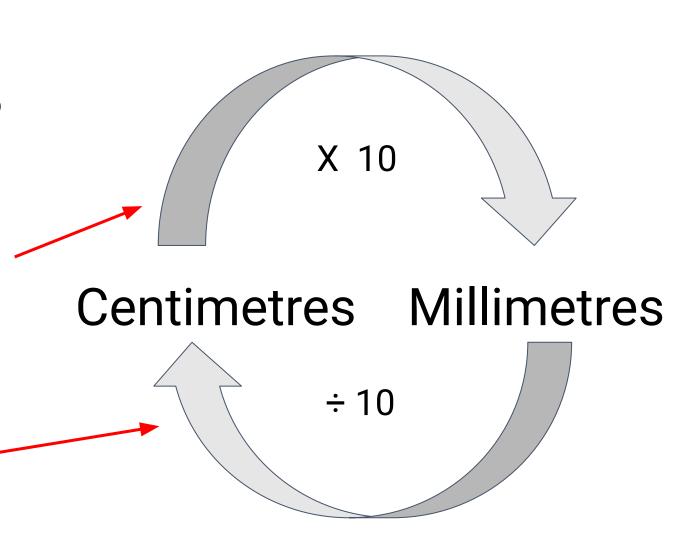
800cm = 8m (800 divided by 100)

Converting between centimetres and millimetres

When converting between these units of weight, we can use this diagram to remind us which calculation we need to use.

To convert from centimetres to millimetres we have to multiply by 10 - this is because there is 10 millimetres in a centimetre.

To convert from millimetres to centimetres, we then do the inverse operation and divide by 10.



Length

1 centimetre (cm) is equal to 10 millimetres (mm), so multiply the centimetres by 10 to get the number of millimetres 8cm= 80mm (8 multiplied by 10)

10 millimetres (ml) is equal to 1 centimetre (cm), so divide the millimetres by 10 to get the number of millimetres.

80mm = 8 cm (80 divided by 10)

Questions on length

- 1. What is 3m in cm?
- 2. What is 2cm in mm?
- 3. What is 400cm in m?
- 4. What is 30mm in cm?

Answers

- 1. What is 3m in cm? 3 x 100 = 300cm
- 2. What is 2cm in mm? 2 x 10 = 20mm
- 3. What is 400 cm in m? $400 \div 100 = 4 \text{m}$
- 4. What is 30mm in cm? $30 \div 10 = 3$ cm

Length

millimetre)	centimetre	metre	kilometre
1000	=	100	1	0.001
7000	=	700	7	0.007
23000	=	2300	23	0.023
176000	=	17600	176	0.176
2157000	=	215700	2157	2.157