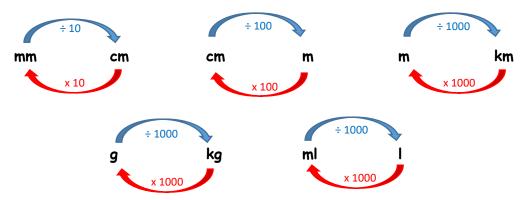
Can I convert between metric measures?

Units of Length	Units of Mass	Units of capacity
10mm = 1cm	1000g = 1kg	1000ml = 1l (litre)
100cm = 1m		
1000m = 1km		

Conversion diagrams:



Step 1

Write out the measurements you need, using the conversion diagrams above to help you decide how to convert one to another (remember to follow the arrows).

For example:

Convert 1.23kg into grams

Write down 1.23kg then look at the conversion diagram for mass. You can see that the arrow that points from kg to g tells you to x1000.

Step 2

Do the calculation:

$$1.23 \times 1000 = 1230$$

You can draw a place value chart to help you divide and multiply by 10, 100 and 1000 if you need to!

thousands	hundreds	tens	ones	1/10	1/100	1/1000
			1	2	3	
1	2	3	0			

Step 3

Give your answer separately from your working out and remember to include units (your answer will be incorrect if you forget these!!):

$$1.23$$
kg = 1230 g

Another example

What is 3708cm in m? Look at the conversion diagram - the arrow from cm to m tells you to ÷ 100

 $3708 \div 100 = 37.08$ so 3708cm = 37.08m

Complete the following:

Three challenge questions at the end.

Question	Answer
What is 3 l in ml?	
What is 4500 g in kg?	
What is 3.4 km in m?	
What is 67 cm in mm?	
What is 380 ml in l?	
What is 2.78 kg in g?	
What is 14 m in cm?	
What is 7mm in cm?	
What is 15.6l in ml?	
What is 837g in kg?	
What is 1.2 m in mm?	
What is 63,000 cm in km?	
What is 2 g in kg?	

<u>Answers</u>

Question	Answer	Answer		
What is 3 l in ml?	3 x 1000 = 3000	3l = 3000ml		
What is 4500 g in kg?	4500 ÷ 1000 = 4.5	4500g = 4.5kg		
What is 3.4 km in m?	3.4 x 1000 = 3400	3.4km = 3400m		
What is 67 cm in mm?	67 ÷ 10 = 6.7	67mm = 6.7cm		
What is 380 ml in l?	380 ÷ 1000 = 0.38	380ml = 0.38l		
What is 2.78 kg in g?	2.78 x 1000 = 2780	2.78kg = 2780g		
What is 14 m in cm?	14 x 100 = 1400	14m = 1400cm		
What is 7mm in cm?	7 ÷ 10 = 0.7	7mm = 0.7cm		
What is 15.6l in ml?	15.6 x 1000 = 15600	15.6l = 15600ml		
What is 837g in kg?	837 ÷ 100 = 0.837	837g = 0.837kg		
What is 1.2 m in mm?	1.2 x 100 = 120 x 10 = 1200	1.2m = 1200mm		
What is 63,000 cm in km?	63000 ÷ 100 = 630 ÷ 1000 = 0.63	63,000cm = 0.63km		
What is 2 g in kg?	2 ÷ 1000 = 0.002	2g = 0.002kg		