

TASK 1:

Measurements at Home

1	How tall are you in m and cm?	
2	How many millilitres are there in your bottle of shampoo? (ml)	
3	How much does your box of cereal weigh?(g)	
4	How tall is the tallest person that lives in your house? Measure in m/cm	
5	How high up do you sleep - measure in m/cm	
6	Find the biggest potato in the bag. How much does it weigh?(g)	
7	Measure the distance from your seat in the lounge to the television. (Are you in danger of getting square eyes!?) (m/cm)	
8	How much does your breakfast cup/glass contain? (ml)	
9	How many millilitres are there in your bottle of ketchup?	
10	If a soup/cereal bowl was full, how many ml of liquid could it hold?	

Use a ruler, weighing scales, a measuring jug/cups to find the answers to these questions. Some of the answers will be printed on the products. If you don't have any scales, try to estimate the weight. If you don't have a measuring jug, use a milk bottle, (which will hold a litre), and try to work it out.

Task 2:Remember: $10\text{mm} = 1\text{cm}$ $100\text{cm} = 1\text{m}$

I can convert between millimetres, centimetres and metres.

I can convert from millimetres to centimetres by dividing by 10.

I can convert from centimetres to millimetres by multiplying by 10.

I can convert from centimetres to metres by dividing by 100.

I can convert from metres to centimetres by multiplying by 100.

**Converting Units of Length**

I can convert between millimetres, centimetres and metres.

**Millimetres and Centimetres**

1. Class 4 found five pencils on the floor and measured them in either mm or cm and mm. Give the alternative measurement for each pencil.

9cm 2mm



mm

cm mm



115mm

5cm 6mm



mm

cm mm



124mm

13cm 5mm



mm

Here are the lengths of some small mammals.



Mouse: 125mm



Rat: 19cm 4mm



Rabbit: 65cm



Gerbil: 200mm



Guinea pig: 27cm 5mm



Hedgehog: 24cm

2. Complete the following table about these small mammals:

Animal	Centimetres and Millimetres	Millimetres
mouse		
rat		
rabbit		
gerbil		
guinea pig		
hedgehog		

3. Use your table to order the mammals in size from shortest to longest.

shortest:

longest:

Centimetres and Metres

4. This table shows the height of some dinosaurs. Some measurements are written in centimetres and some in metres and centimetres. Complete the table.

Dinosaur	Centimetres	Metres and Centimetres
Diplodocus	730cm	
Spinosaurus		2m 45cm
Megalosaurus		3m 70cm
Apatosaurus	450cm	
Allosaurus	525cm	
Triceratops		2m 85cm

5. Order the dinosaurs from tallest to shortest.

tallest:

shortest:

Task 3:**Remember: $1000\text{g} = 1\text{kg}$** **Converting Units of Mass**

I can convert between units of mass.

I can convert between units of mass.

I can convert from kilograms to grams by multiplying by 1000.

I can convert from grams to kilograms by dividing by 1000.

I can convert and order mixed units of mass.

1. Convert these measurements from grams to kilograms:

a) $6000\text{g} =$	kg	b) $4000\text{g} =$	kg
c) $2000\text{g} =$	kg	d) $9000\text{g} =$	kg
e) $10\,000\text{g} =$	kg	f) $1000\text{g} =$	kg
g) $5000\text{g} =$	kg	h) $7000\text{g} =$	kg
i) $3000\text{g} =$	kg	j) $8000\text{g} =$	kg

2. State, in grams, the mass of the following:

 sugar 1kg	 flour 2kg	 apples 3kg
a) 3 bags of flour _____g	b) 2 bags of sugar _____g	c) 3 baskets of apples _____g
d) 2 bags of flour and 3 bags of sugar _____g	e) 2 baskets of apples and 3 bags of sugar _____g	f) 4 bags of sugar and 3 baskets of apples _____g

3. Convert these measurements into kilograms and grams:

a) 2500g _____kg _____g	b) 3250g _____kg _____g	c) 6300g _____kg _____g
d) 6800g _____kg _____g	e) 1900g _____kg _____g	f) 7200g _____kg _____g
g) 8750g _____kg _____g	h) 7100g _____kg _____g	i) 5600g _____kg _____g

Task 4:

Maths with Measures

1. I have a 3m piece of ribbon and use 50cm of it to make a card. How much ribbon do I have left?

2. Show your working out underneath. How many 25mm slices of rock can be made from one 2m piece of rock?

3. Imperial measurements: **1oz = 30g**

$$\mathbf{1\ pint = 568ml}$$

What are the metric measurements of these?

a) 10 oz = _____

a) 3 oz = _____

a) 6 oz = _____

a) Half a pint = _____

a) 4 pints = _____

4. I have a 10 kg bag of potatoes, but dropped a quarter of them on the way home. How many grams of potatoes do I have left?

5. There is 500ml of water in the small bottle. The big bottle contains 4 and a half times as much. How much water is in the big bottle?

Task 5:

How much does each vessel hold?

litre = 1000 ml

E.g. bucket, square tub, big bottle, cup, small bottle, round tub

Vessel	Estimate the volume	Measure the actual volume	How far out were you?
1.			
2.			
3.			
4.			
5.			

Task 6:

How much does each item weigh?

List six items	Estimate the weight kg or g	Measure the actual weight	How far out were you?
1.			
2.			
3.			
4.			
5.			
6.			

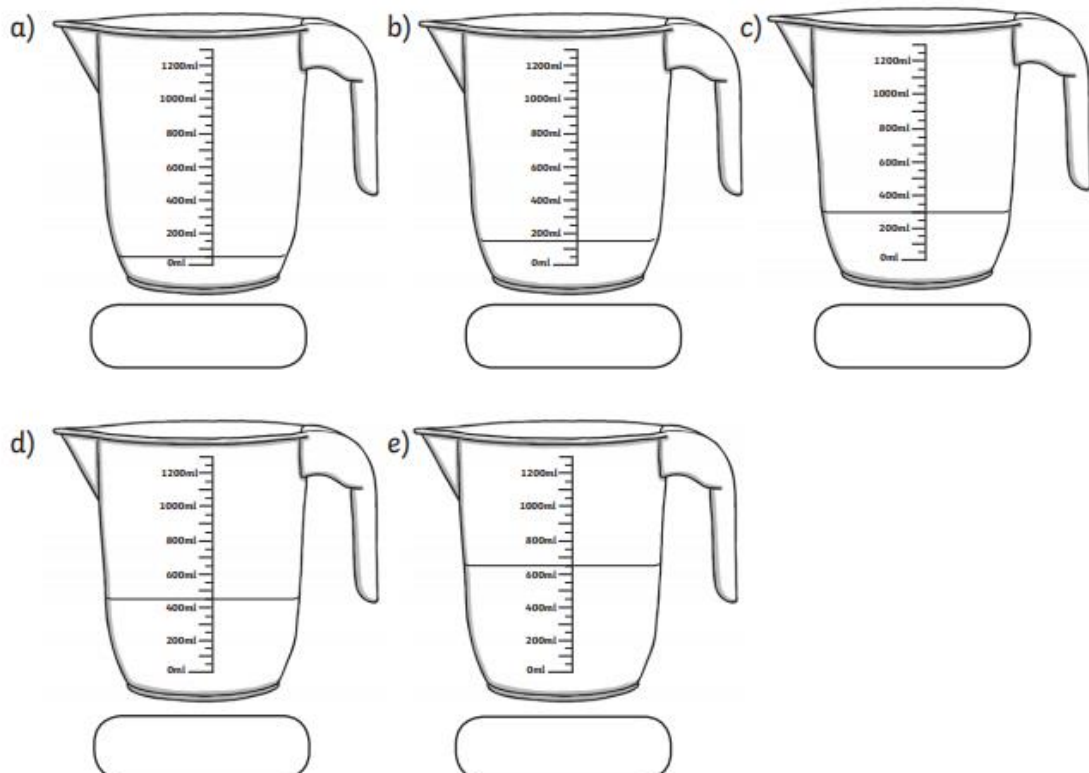
Task 7:

How long is each object?

List six objects	Guess the length m or cm	Measure the actual length	How far out were you?
1.			
2.			
3.			
4.			
5.			
6.			

Task 8:

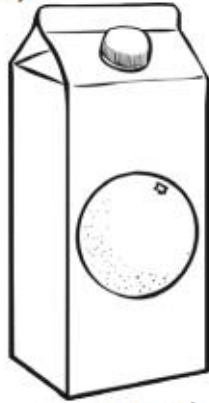
1. Record the amount of water in each jug in millilitres.



Task 9:

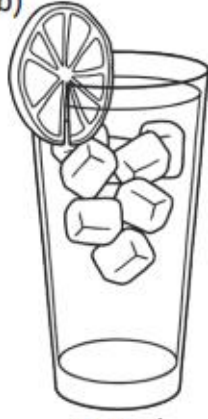
If you are going shopping and want to buy as close as you can to 1 Litre of each of these drinks, how many should you buy?

a)



245ml

b)



648ml

c)



127ml

d)



375ml

a) How many should you buy of a?

b) How many should you buy of b?

c) How many should you buy of c?

d) How many should you buy of d?