Lockdown	
Date	
Subject/s	**Maths**
Learning Objective	To convert units of capacity

				SA	TA
Success Criteria ✓! 📋	I know there are 1000ml in 1l				
	I can multiply and divide by 1000 using or visualising a place value grid				
Support	Independent Adult Support ( ) Group Work				

Pre-task:

Convert these units:

15l = _ _ _ _ _ _ _ml

1.9l = _ _ _ _ _ _ _ ml

2.08l = _ _ _ _ _ _ _ml

_ _ _ _ _ _ _l = 75ml

Capacity
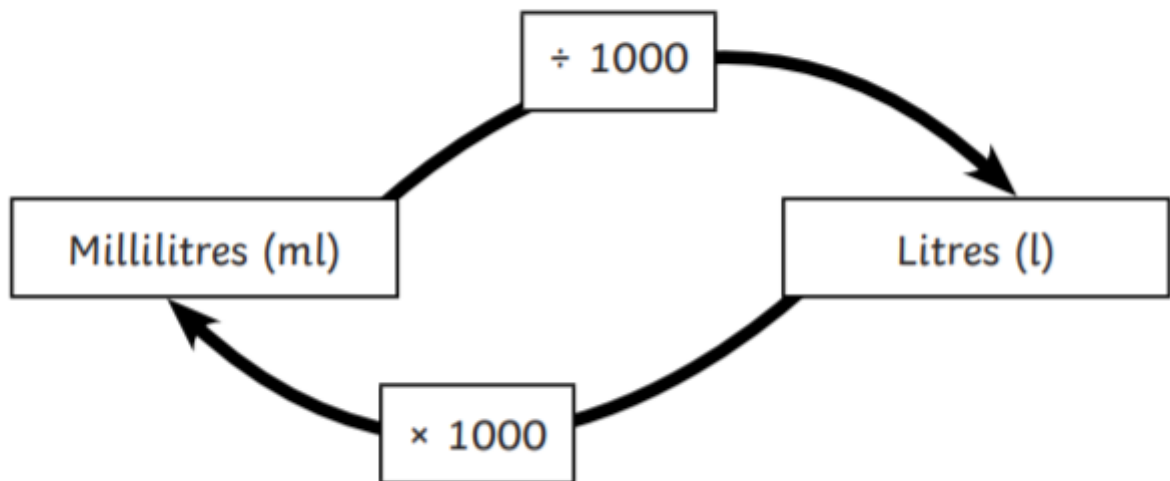
Decimal Place Value Chart

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones		tenths	hundredths	thousandths	ten thousandths	hundred thousandths	millionths
M	HTh	TTh	Th	H	T	O	•	t	h	th	tth	hth	m
							•						
							•						

Fluency

1.	Litres	Millilitres
	0.252	
	0.633	
	0.191	
	0.721	
	0.725	
	0.71	
	0.583	
	0.595	
	0.625	
	0.244	

2.	Litres	Millilitres
	1.929	
	1.308	
	7.717	
	2.59	
	2.031	
	8.53	
	4.103	
	6.924	
	4.531	
	5.007	

3.	Litres	Millilitres
		175
		57
		292
		462
		366
		334
		517
		689
		212
		185

4.	Litres	Millilitres
		7055
		4059
		3096
		8684
		8219
		7139
		2607
		2010
		3400
		6311

5.	Litres	Millilitres
		216
		128
	0.23	
	0.158	
		764
	0.163	
	0.765	
		999
		454
	0.841	

6.	Litres	Millilitres
		1054
	5.447	
	9.277	
		5915
		7347
	7.729	
		9685
	6.604	
	9.449	
		4554

Answers

1.

Litres	Millilitres
0.252	252
0.633	633
0.191	191
0.721	721
0.725	725
0.71	710
0.583	583
0.595	595
0.625	625
0.244	244

2.

Litres	Millilitres
1.929	1929
1.308	1308
7.717	7717
2.59	2590
2.031	2031
8.53	8530
4.103	4103
6.924	6924
4.531	4531
5.007	5007

3.

Litres	Millilitres
0.175	175
0.057	57
0.292	292
0.462	462
0.366	366
0.334	334
0.517	517
0.689	689
0.212	212
0.185	185

4.

Litres	Millilitres
7.055	7055
4.059	4059
3.096	3096
8.684	8684
8.219	8219
7.139	7139
2.607	2607
2.01	2010
3.4	3400
6.311	6311

5.

Litres	Millilitres
0.216	216
0.128	128
0.23	230
0.158	158
0.764	764
0.163	163
0.765	765
0.999	999
0.454	454
0.841	841

6.

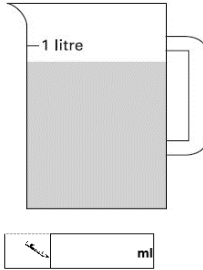| Litres	Millilitres
1.054	1054
5.447	5447
9.277	9277
5.915	5915
7.347	7347
7.729	7729
9.685	9685
6.604	6604
9.449	9449
4.554	4554

Problem Solving and Reasoning

A shop sells litre bottles of water for 99 p each.

300 ml bottles of water are on offer for 8 for £2

If Jess wants to buy 12 L of water for the cheapest amount, which should she buy and why?

Q5. Sophie poured some water out of a **litre** jug.

Look how much is left in the jug.

Estimate how many millilitres of water are left.

─ 1 litre

☜ _____ ml

1 mark

Katie's glass holds a **quarter of a litre** when it is full.

She nearly fills it to the top with juice.

Tick (✔) the approximate amount of juice she puts in the glass.

☜

4 millilitres ☐

20 millilitres ☐

120 millilitres ☐

220 millilitres ☐

420 millilitres ☐

A bottle holds **1 litre** of lemonade.

Rachel fills **5 glasses** with lemonade.

She puts **150 millilitres** in each glass.

How much lemonade is left in the bottle?

Megan wants to fill a bucket with water.

A bucket holds 6 litres.

A jug holds 500 millilitres.

How many jugs of water does Megan need to fill an empty bucket?

Here is a recipe for raspberry ice cream.

rasberry ice cream
for 8 people

$\frac{1}{2}$ litre of cream

1kg rasberries

250g sugar

This recipe is for **8 people**.

Josie makes enough raspberry ice cream for **12 people**.

How much **cream** does she use?

litre

Answers

£11.88 to buy 12 one litre bottles

£10 to buy 5 lots of the offer.

Jess should buy 40 bottles of 300 ml (5 lots of the offer)

900ml or 0.9l

1l – 1000ml
Estimate 100ml poured out.
1000-100=900ml

220millilitres

$\frac{1}{4}$ of 1l – 250ml

250ml is left

150x5 = 750ml
1l=1000ml
1000-750=250

12jugs

6l = 6000ml

6000ml divided by 500 = 12

750ml

$\frac{1}{2}$ l = 500ml

500divided by 2 = 250

500+250 = 750ml

Further Challenge

A group of eight children in Class 6 were measuring water using measuring cylinders. They coloured the water to make reading the scales easier.

They lined up the cylinders in two neat rows, each labelled with a child's name and the amount they had measured out.

Then Harry opened the window and the wind blew most of the labels onto the floor! "Oh! Harry!" they all wailed. Can you relabel the cylinders for them?
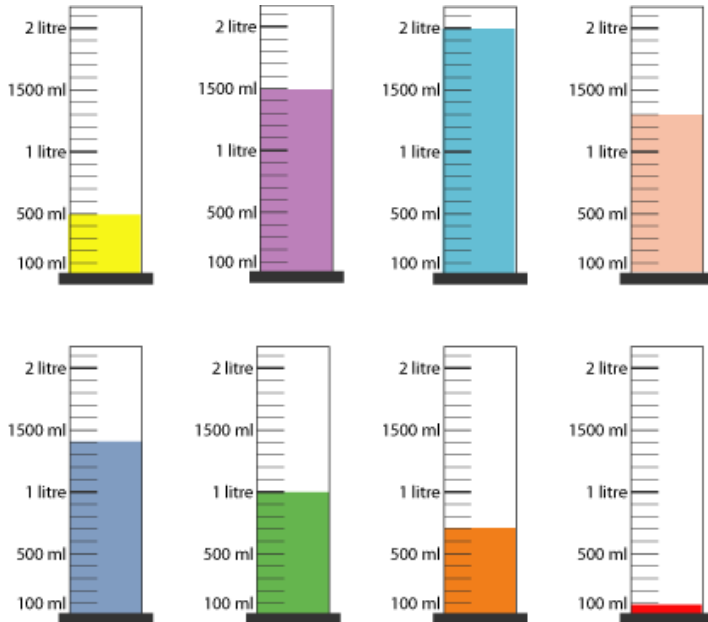
Ahmed had measured out just a thousand millilitres and Belinda twice as much as Ahmed.

Grace had measured out three-quarters of the amount that Belinda had done and Freddie had half the amount that Ahmed had measured out.

Which were their cylinders?

Callum had coloured his water blue. How much did he measure out?

Ellie had coloured her water pink and Dan coloured his orange. How much did they measure out?

"Don't drink that!" Harry had laughed, pointing at Dan's cylinder, "It's not orange juice!" As his hand stretched out he knocked over his red liquid. "Oh! Harry!" they all wailed again.

How much was left in Harry's cylinder after the accident?