Measurement: Converting Millilitres and Litres

Aim: Convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre]. I can convert metric measures involving volume and capacity (litres and millilitres).	Success Criteria: I can multiply by 1000 to convert measurements from litres to millilitres. I can divide by 1000 to convert measurements from millilitres to litres. I can convert between litres and millilitres to solve problems.	Resources: Lesson Pack Individual whiteboards and pens – class set
	Key/New Words: Measurement, capacity, volume, convert, litres, millimetres, place value.	Preparation: Volume Cards - class set, pre-cut Differentiated Measuring Smoothies Activity Sheet - one per child Decimal Place Value Chart - optional

Prior Learning: It will be helpful if children have used litres and millilitres to measure volume and know that there are 1000 millilitres in 1 litre.

Learning Sequence Make One Litre: Cut up the Volume Cards and give one to each child. (As the measurements on the cards vary in difficulty, you may wish to distribute them based on ability.) Children should walk around the room and form groups in which the measurements in millilitres on their cards add up to exactly one litre. There should be at least three people in a group. Converting from Litres to Millilitres: The lesson is introduced in the context of measuring juice to make fruit smoothies. Use the Lesson Presentation to explain how to convert from litres to millilitres by multiplying by 1000, with a focus on the place value of zeros in a number when it is multiplied. Children practise converting from litres to millilitres. Converting from Millilitres to Litres: Use the Lesson Presentation to explain how to convert from millilitres to litres by dividing by 1000, with a focus on the place value of zeros in a number when it is divided. The Lesson Presentation explains when zeros do and do not need to be written after the decimal place in a number. Children practise converting from litres to millilitres. True or False? Children answer true or false questions about measurements given in both metric units. Is each conversion true or false? These questions provide the chance to address potential misconceptions when multiplying and dividing by 1000, particularly those in relation to the place value of zeros in the number. Measuring Smoothies: Children complete the Measuring Smoothies Activity Sheet, multiplying and dividing by 1000 to convert between litres and millilitres. Children convert between Children match Children convert between measurements in millilitres litres and millilitres. litres and millilitres, with with their equivalents in with a focus on the a focus on the place value of zeros when litres, with a focus on the place value of zeros when multiplying and place value of zeros when multiplying and dividing multiplying and dividing by dividing by 1000. They by 1000. They order 1000. They convert from order sets of litre and sets of litre and millilitre millilitres to litres and vice millilitre measurements. measurements. They versa, using the **Decimal** They decide whether use < or > to complete **Place Value Chart** statements about complex comparison for support if needed. measurement conversions statements. They answer They decide whether a are true or false. They word problems requiring measurement has been answer a word problem them to compare. order, add and subtract correctly converted requiring them to add from millilitres to litres, measurements given in amounts given in explaining their reasoning. litres or millilitres. millilitres or litres.

Diving into Mastery: Schools using a mastery approach may prefer to use the following as an alternative activity. These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.	
Children convert between litres, millilitres and vice versa.	
Children answer reasoning questions while converting between litres, millilitres and vice versa.	
Children apply their problem-solving skills to complete an investigation involving converting between litres, millilitres and vice versa.	
Juice Problems: Children solve two word problems involving conversion between litres and millilitres.	

their estimates. Whose estimates came the closest?
Writeit: Children write their own volume and capacity problems on the <u>Volume Problem Sheet</u>, recording their question and answer. They swap their sheet with their partner and answer their partner's question.



Measurement

Maths | Year 5 | Measurement | Converting Metric Measurements | Lesson 4 of 4: Converting Millilitres and Litres



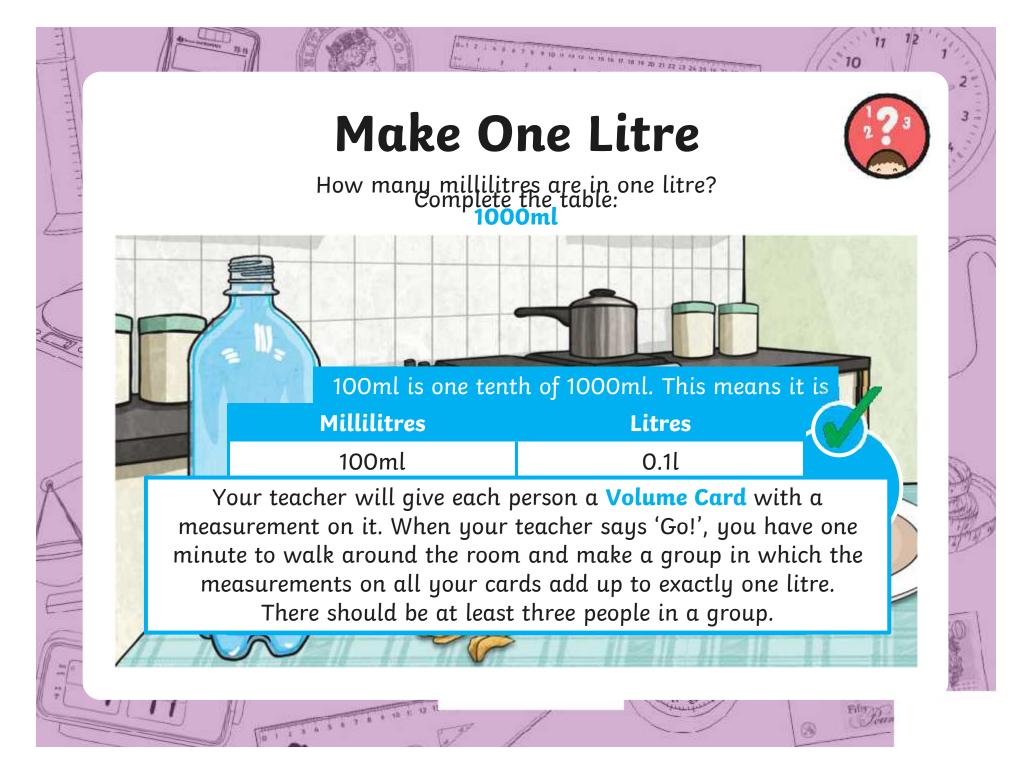
Aim

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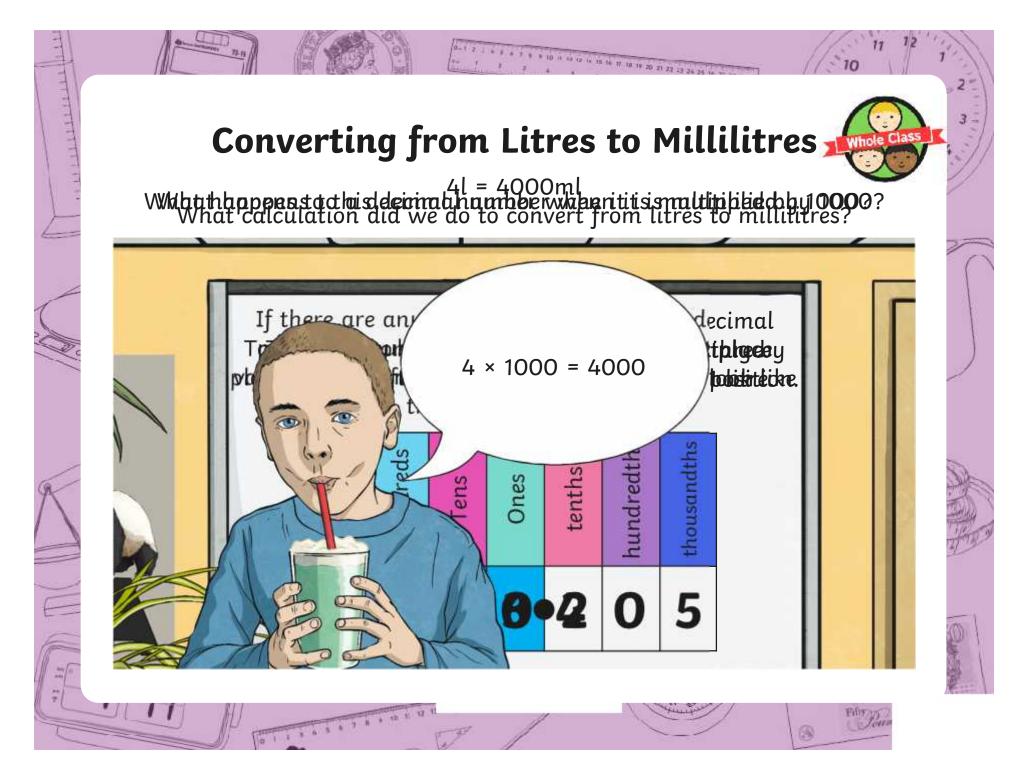
• I can convert metric measures involving volume and capacity (litres and millilitres).

Success Criteria

- I can multiply by 1000 to convert measurements from litres to millilitres.
- I can divide by 1000 to convert measurements from millilitres to litres.
- I can convert between litres and millilitres to solve problems.







Converting from Litres to Millilitres 🎪

12 is 25 16 17 18 19

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	٩			
		Litres	Millilitres	
		3.802l	3802ml	
/		6.24l	6240ml	
1	AS A	5.9l	5900ml	Ars \
7		3.75l	3750ml	
1	AHRI	2.09l	2090ml	THE STATE
	26	4.001l	4001ml	Ka
				Filtr



Converting from Millilitres to Litres 🐋

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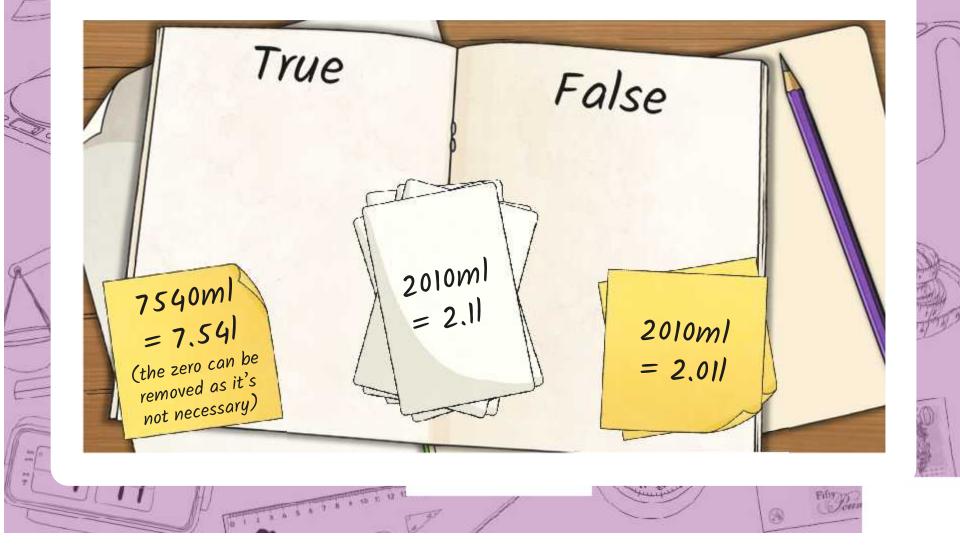
	Millilitres	Litres	
	5692ml	5.692l	A
	3460ml	3.46l	ST
	6150ml	6.15l	
	2800ml	2.8 l	
-	3060ml	3.06l	
•	4006ml	4.006l	
 1.00			
 J	1)		Elly Denn

True or False?

12 is 35 to 17 18 19 20

10

Sort these cards onto the correct page?



Measuring Smoothies

Use your marvellous measurement skills to complete these activity sheets:

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Diving into Mastery

Dive in by completing your own activity!

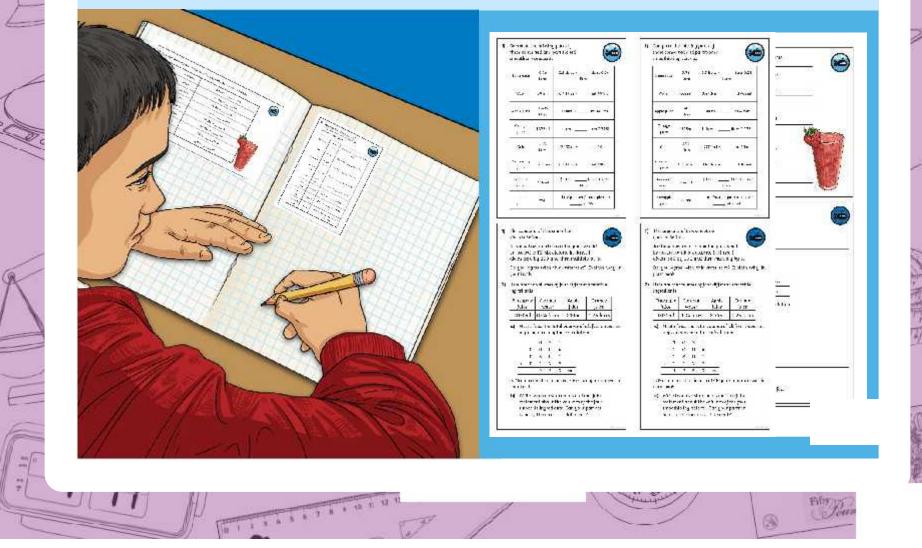
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Juice Problems

25 16 17 18 19

Can you find the three amounts that add up to make the measurement shown on the left-hand page?

2500 lintileistres 12431 22000m11 117251 590.83ml +800m/ 320,00 650mml \$50m1 E Film Pour

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Aim

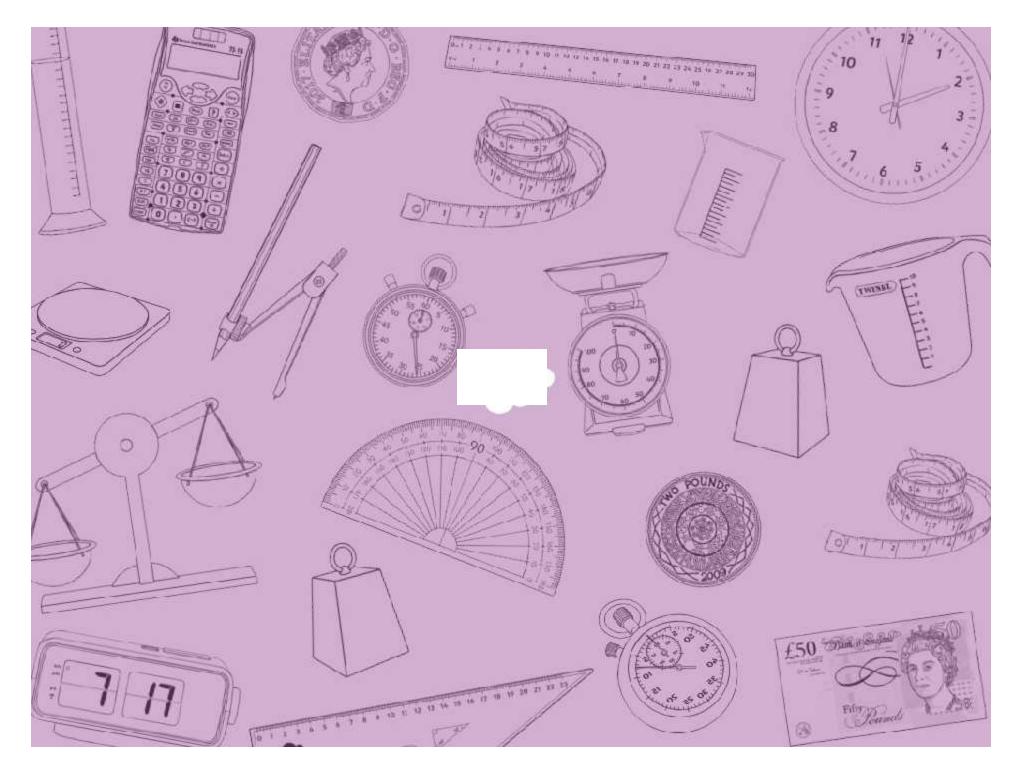
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• I can convert metric measures involving volume and capacity (litres and millilitres).

Success Criteria

- I can multiply by 1000 to convert measurements from litres to millilitres.
- I can divide by 1000 to convert measurements from millilitres to litres.
- I can convert between litres and millilitres to solve problems.

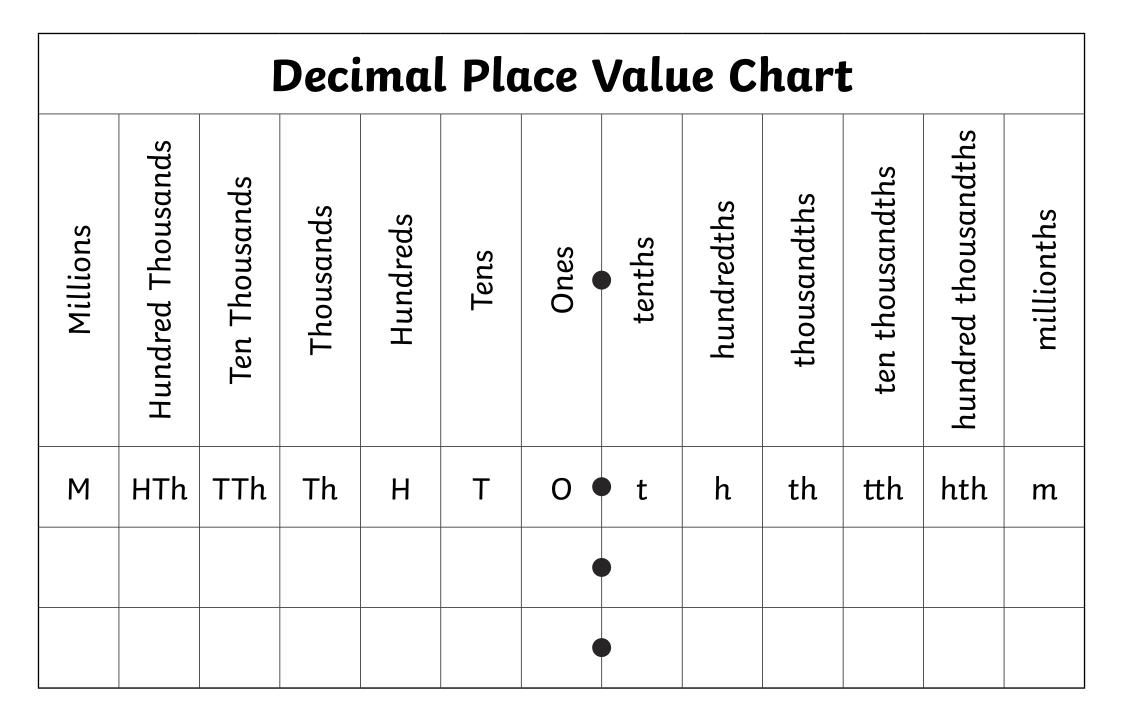


Aim: I can convert metric measures involving volume and capacity (litres and millilitres).						Date:							
				Delivered By:			Support:						
Success Criteria	Me	Friend	Teacher	т	РРА	S	I	AL	GP				
I can multiply by 1000 to convert measurements from litres to millilitres.				Notes/Evidence									
I can divide by 1000 to convert measurements from millilitres to litres.													
I can convert between litres and millilitres to solve problems.													
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т	Teacher	I	Independent
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s	Supply	GP	Guided Practice

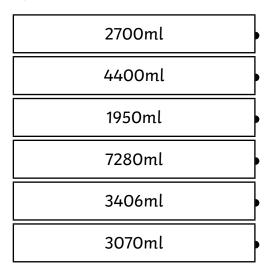
Aim: I can convert metric measures involving volume and capacity (litres and millilitres).					Date:					
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Success Criteria	Me	Friend	Teacher	т	РРА	S	I	AL	GP	
I can multiply by 1000 to convert measurements from litres to millilitres.				Notes	Notes/Evidence					
I can divide by 1000 to convert measurements from millilitres to litres.										
I can convert between litres and millilitres to solve problems.				-						
Next Steps	I	I	I							
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т	Teacher	I	Independent
PPA	Planning, Preparation and Assessment	AL	Adult Led
S	Supply	GP	Guided Practice



I can convert metric measures involving volume and capacity (litres and millilitres).

1) Match the measurements in millilitres with their equivalents in litres.



•	4.4l	
•	7.28l	
•	3.406l	
•	3.07l	
•	2.7l	
•	1.95l	

2) Multiply by 1000 to convert these measurements to millilitres.

2.6l	3.4l	5.7l	8.6l	3.25l	4.67l	6.53l	4.209l	7.05l
2600ml				32501				

3) Divide by 1000 to convert these measurements to litres.

5600ml	2300ml	6800ml	4500ml	3450ml	7650ml	1240ml	4401ml	5060ml
5.61				3.451				

4) Decide whether to multiply or divide by 1000 to convert these measurements to litres or millilitres.

5.5l →	6450ml►
6.8l	3.002l
3400ml►	2.86l

Measuring Smoothies

5) Lucy's mum told her to use 6700ml of orange juice to make enough servings of her tropical smoothie to share with the class. However, Lucy's measuring jug only shows measurements in litres. Lucy thinks that 6700ml is the same as 67l. Is she right or wrong? Explain how you know.



Measuring Smoothies **Answers**

Question	Answer									
1.	Match the measurements in millilitres with their equivalents in litres.									
		2700ml							4.4l	
		4400ml		\sim					7.28l	
		1950ml			>	\langle			3.406l	
		7280ml			\times	>	$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{$		3.07l	
		3406ml				\succ	$\langle \rangle$		2.7l	
	3070ml					1.95l				
2.	Multiply b	y 1000 to co	onvert these	measuremen	its to n	ıillilit	res.			
	2.6l	3.4l	5.7l	8.6l	3.2	5l	4.67l	6.53l	4.209l	7.05l
	2600ml	3400ml	5700ml	8600ml	32	501	4670ml	6530ml	4209ml	7050ml
3.	Divide by	1000 to con	vert these m	easurements	to litre	es.				
	5600ml	2300ml	6800ml	4500ml	3450	Oml	7650ml	1240ml	4401ml	5060ml
	5.61	2.31	6.81	4.51	3.4	sl	7.651	1.241	4.4011	5.061
4.	Decide wh	ether to mul	tiply or divi	de by 1000 t	to conv	ert th	ese measure.	ments to litr	res or millilit	tres.
	5.5l			5500m	nl	6	450ml			6.451
	6.8l			6800n	n	(°)	3.002l			3002ml
	3400n	าไ		3.41			2.86l		→ 2	2860ml
5.	share with	ı the class. H	However, Luc	nl of orange :y's measurin right or wro	ng jug	only	shows measu	urements in	-	
	Children' dividing		should sh	ow unders	standi	ing o	f place val	ue when n	nultiplyin	g or

I can convert metric measures involving volume and capacity (litres and millilitres).

1) Some measurements have been given in millilitres, and some in litres. Decide whether to multiply or divide by 1000 to convert the measurements to the other unit.

Litres	Millilitres	Litres	Millilitres
3.5l		3.505l	
	2700ml		2005ml
8.45l		9.006l	
	2560ml	4.3l	
3.05l			6820ml
	4070ml	2.03l	
	4401ml		9600ml

Order these measurements from smallest to largest. 2)

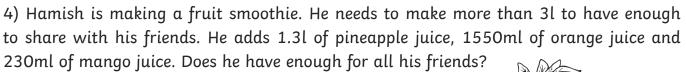
α)	3005ml	3.55	3.55l 3505ml		3.055l
	Smallest	<			Largest
b)	0.55l	5.55l	5005ml	5.35l	355ml
	Smallest	<			→ Largest

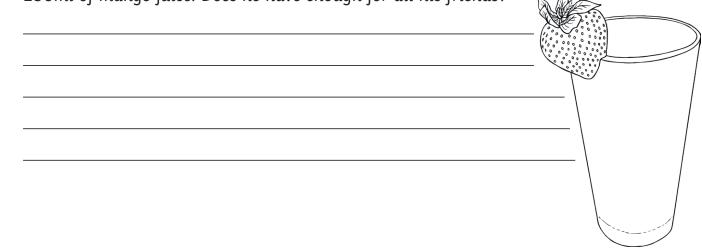
Are these statements true or false? Tick the true statements and cross the false ones. 3)

5500ml = 5.5l	4.3l = 4030ml
6.07l = 6700ml	2005ml = 2.05l

5500ml = 5.5l

Measuring Smoothies







Measuring Smoothies **Answers**

Question	Answer					
1.	Some measurements have been given in millilitres, and some in litres. Decide whether to multiply or divide by 1000 to convert the measurements to the other unit.					
	Litres	Millilit	res	l	_itres	Millilitres
	3.5l	35001	nl	3	8.505l	3505ml
	2.71	2700r	nl		2.0051	2005ml
	8.45l	84501	nl	9	9.006l	9006ml
	2.561	2560r	nl		4.3l	4300ml
	3.05l	30501	nl		6.821	6820ml
	4.071	4070r	nl		2.03l	2030ml
	4.4011	4401r	4401ml		9.61	9600ml
2.	Order these measure	ments from smallest	to largest			
	Smallest				Largest	
	3005ml	3.05	51	3	sosml	3.551
	Smallest					
	355ml	0.551	500	sml	5.351	5.551
3.	Are these statements	true or false? Tick th	ie true state	ements and	cross the false o	nes.
	5500ml = 5.5l	\checkmark		4.31 = 40	030ml	X
	6.07l = 6700ml	X		2005ml	= 2.05l	X
4.	Hamish is making a friends. He adds 1.3l enough for all his fri	of pineapple juice, 1				igh to share with his ango juice. Does he have
	Yes – he makes 30	80m1/3.081.				



I can convert metric measures involving volume and capacity (litres and millilitres).

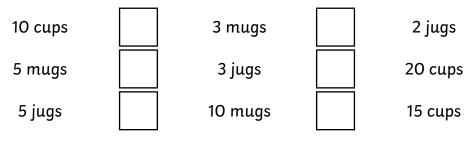
1) Some measurements have been given in millilitres, and some in litres. Convert each measurement to the other unit.

Litres	Millilitres	Litres	Millilitres
3.5l			2700ml
3.55l			2707ml
3.505l			2077ml
3.05l			2007ml
3.005l			2070ml

2) Order these measurements from smallest to largest.

α)	0.25l	5.7l	500	D2ml	5.12l	500ml
	Smallest	<				Largest
b)	1.77l	700ml	1.27l	0.07l	1.077l	1700ml
	Smallest	•				→ Largest

3) A cup has a capacity of 275ml. A mug has a capacity of 450ml. A jug has a capacity of 1.25l. Complete these statements using < or >.





4) Luca brought 3.56l of apple juice to add to the fruit smoothies that they were making in class. Caitlin brought 3 $\frac{3}{4}$ l of pineapple juice and Alexa brought 3056ml of cranberry juice.

- a) Who brought the most to drink?
- b) Order the amounts that they brought to drink, from smallest to largest amount.
- c) What is the difference, in millilitres, between the smallest and largest amount?
- d) How much did they bring to drink in total? Give your answer in litres.



Measuring Smoothies **Answers**

Question	Answer									
1.		Some measurements have been given in millilitres, and some in litres. Decide whether to multiply or divide by 1000 to convert the measurements to the other unit.								
	Litres	1	1illilit	res		Litres			Millilitres	
	3.5l		3500n	nl		2.71			2700ml	
	3.55l		3550n	nl		2.7071			2707ml	
	3.505l		3505n	nl		2.0771			2077ml	
	3.05l		3050n	nl		2.0071			2007ml	
	3.005l		3005n	nl		2.071			2070ml	
2.	Order these measurements from smallest to largest									
	Smallest	•							Largest	
	0.251	500m	500ml 5002ml		2ml	ml 5.121			5.71	
	Smallest <> Largest									
	0.071	700ml	1	0.0771	1.27	1	170	oml	1.771	
3.	Are these statemer	its true or false?	' Tick th	ie true state	ements and	cross tł	re false oi	nes.		
	10 cups	>		3 m	ugs		<		2 jugs	
	5 mugs	<		3 ј	ugs		<		20 cups	
	5 jugs	>		10 n	nugs		>		15 cups	
4.	Luca brought 3.56 brought 3 ³ 4l of pir			-			-	aking i	in class. Caitlin	
a	Caitlin									
b	3056ml, 3.56l, 3	41								
с	694ml									
d	10.3661									

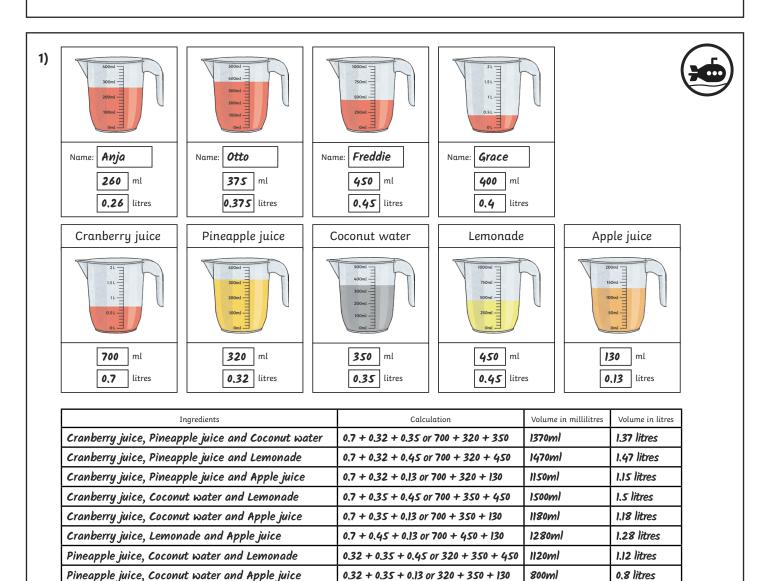
Lemonade	0.76 litres	0.5 litres + 0.26 litres	
Water	809ml	0.4 litres + 409 ml	
Apple juice	1.405 litres	1000ml + 405 ml	
Orange juice	1378ml	1 litres + 0.378 litres	
Cola	2.01 litres	2000ml + <i>1</i> 0ml	
Cranberry juice	0.6 litres	0.5 litres + 100 ml	
Coconut water	754 ml	$\frac{3}{4}$ litre + 0.004 litres	
Pineapple juice	999ml		

 Accept an explanation that shows that the statement is incorrect because the amount should be divided by 1000 to convert to litres and then multiplied by 6. Alternatively, the amount could be multiplied by 6 and then divided by 1000.

Pineapple juice, Lemonade and Apple juice

Coconut water, Lemonade and Apple juice

2) Accept an explanation that shows that Meeta is incorrect. 0.04 litres is equal to 40ml, not 4ml. 1.25 litres is equal to 1250ml, not 125ml. The correct total is 3120ml or 3.12 litres.



0.32 + 0.45 + 0.13 or 320 + 450 + 130

0.35 + 0.45 + 0.13 or 350 + 450 + 130

0.9 litres

0.93 litres

900ml

930ml

1)	Complete the missing	parts of thes	e converted and j	partitioned smoo	thie ingredients.
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Lemonade	0.76 litres	0.5 litres + litres	
Water	809ml	0.4 litres + ml	
Apple juice	1.405 litres	1000ml + ml	
Orange juice	1378ml	1 litres + litres	
Cola	2.01 litres	2000ml + ml	
Cranberry juice	0.6 litres	0.5 litres + ml	
Coconut water	754 ml	$\frac{3}{4}$ litre + litres	
Pineapple juice	999ml	9/10 litre + ml	

1) The capacity of this smoothie glass is 560ml.

To show how much smoothie juice would be needed to fill six glasses, in litres, I divide 560 by 100 and then multiply by 6.

Do you agree with this statement? Explain why.

2) Here are the volumes of four different smoothie ingredients.

Pineapple juice	Coconut water	Apple juice	Orange juice
1030ml	0.04 litres	800ml	1.25 litres

a) Meeta finds the total volume of all four smoothie ingredients using this calculation:

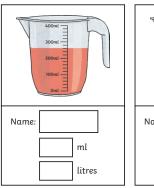
Is Meeta correct or incorrect? Explain your answer.

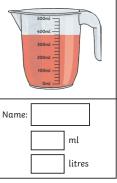
b) Write two true statements and one false statement about the volumes of the four smoothie ingredients. Can your partner identify the incorrect statement?

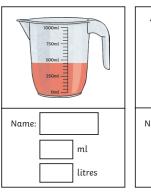
1) Otto, Freddie, Anja and Grace have smoothies. They measure the volume of their drinks in measuring jugs. Use the clues to work out who each drink belongs to.

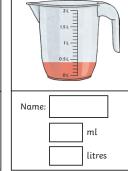


- Freddie's drink has the greatest volume.
- Anja's drink has the smallest volume.
- Otto's drink has a volume smaller than $\frac{2}{5}$ of a litre.

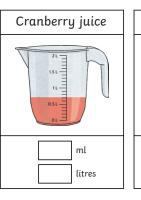


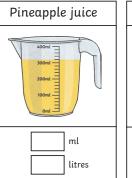


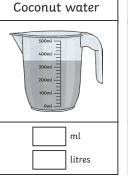


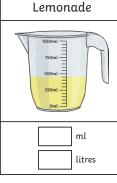


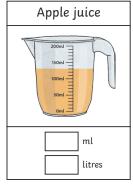
2) The children mix their own smoothies using three different ingredients.Find the volumes of the ten possible smoothies they can make in both millilitres and litres using these ingredients.











Ingredients	Calculation	Volume in millilitres	Volume in litres

 Complete the missing parts of these converted and partitioned smoothie ingredients.



Lemonade	0.76 litres	0.5 litres + litres
Water	809ml	0.4 litres + ml
Apple juice	1.405 litres	1000ml + ml
Orange juice	1378ml	1 litres + litres
Cola	2.01 litres	2000ml + ml
Cranberry juice	0.6 litres	0.5 litres + ml
Coconut water	754 ml	³ / ₄ litre + litres
Pineapple juice	999ml	9/10 litre + ml

1) The capacity of this smoothie glass is 560ml.



To show how much smoothie juice would be needed to fill six glasses, in litres, I divide 560 by 100 and then multiply by 6.

Do you agree with this statement? Explain why in your book.

2) Here are the volumes of four different smoothie ingredients.

Pineapple	Coconut	Apple	Orange
juice	water	juice	juice
1030ml	0.04 litres	800ml	1.25 litres

a) Meeta finds the total volume of all four smoothie ingredients using this calculation:

	1	9	5	9	ml
+	0	1	2	5	
	0	8	0	0	
	0	0	0	4	
	1	0	3	0	

Is Meeta correct or incorrect? Explain your answer in your book.

b) Write two true statements and one false statement about the volumes of the four smoothie ingredients. Can your partner identify the incorrect statement? Complete the missing parts of these converted and partitioned smoothie ingredients.

Lemonade	0.76 litres	0.5 litres + litres
Water	809ml	0.4 litres + ml
Apple juice	1.405 litres	1000ml + ml
Orange juice	1378ml	1 litres + litres
Cola	2.01 litres	2000ml + ml
Cranberry juice	0.6 litres	0.5 litres + ml
Coconut water	754 ml	$rac{3}{4}$ litre + litres
Pineapple juice	999ml	9/10 litre + ml

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juice	water	juice	juice
1030ml	0.04 litres	800ml	1.25 litres

a) Meeta finds the total volume of all four smoothie ingredients using this calculation:

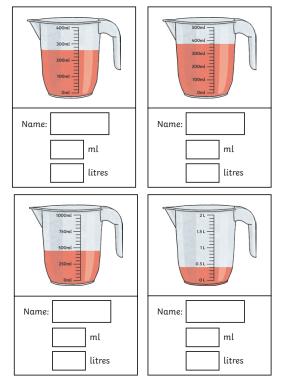
	1	0	3	0	
	0	0	0	4	
	0	8	0	0	
+	0	1	2	5	
	1	9	5	9	ml

Is Meeta correct or incorrect? Explain your answer in your book.

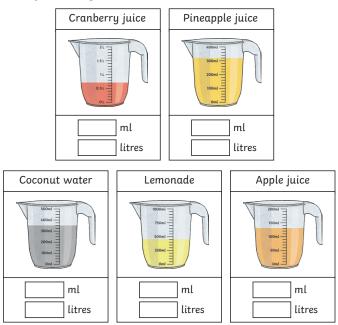
b) Write two true statements and one false statement about the volumes of the four smoothie ingredients. Can your partner identify the incorrect statement? A Otto, Freddie, Anja and Grace have smoothies. They measure the volume of their drinks in measuring jugs. Use the clues to work out who each drink belongs to.



- Freddie's drink has the greatest volume.
- Anja's drink has the smallest volume.
- Otto's drink has a volume smaller than $\frac{2}{5}$ of a litr**e**.



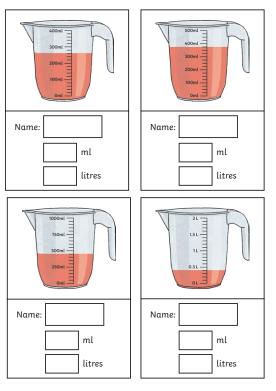
2) The children mix their own smoothies using three different ingredients.



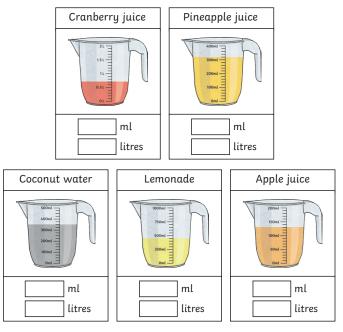
Find the volumes of the ten possible smoothies they can make in both millilitres and litres using these ingredients. A Otto, Freddie, Anja and Grace have smoothies. They measure the volume of their drinks in measuring jugs. Use the clues to work out who each drink belongs to.



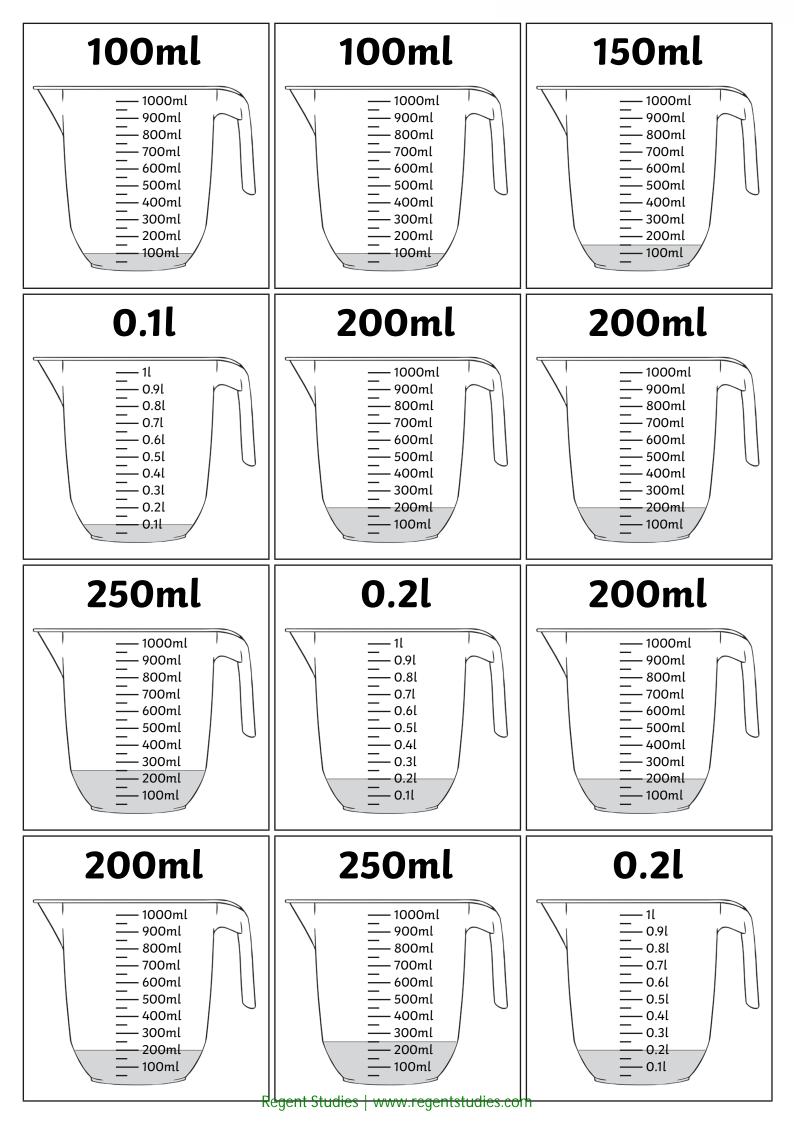
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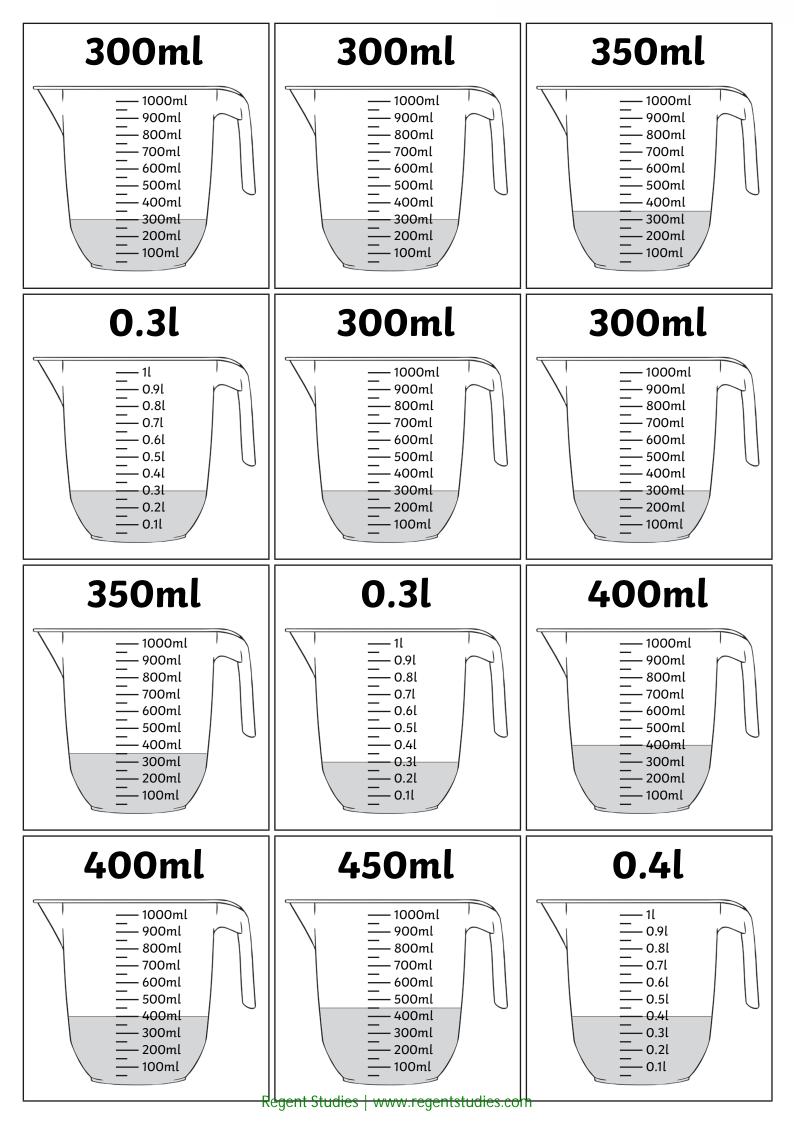


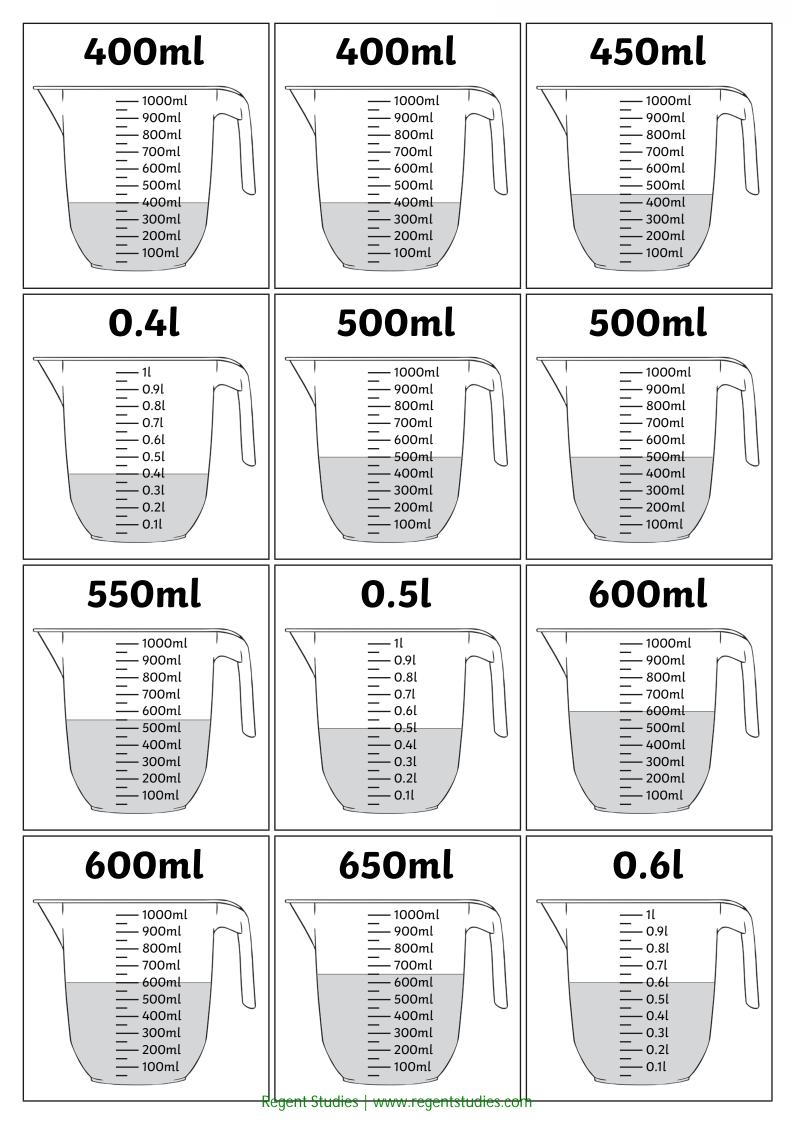
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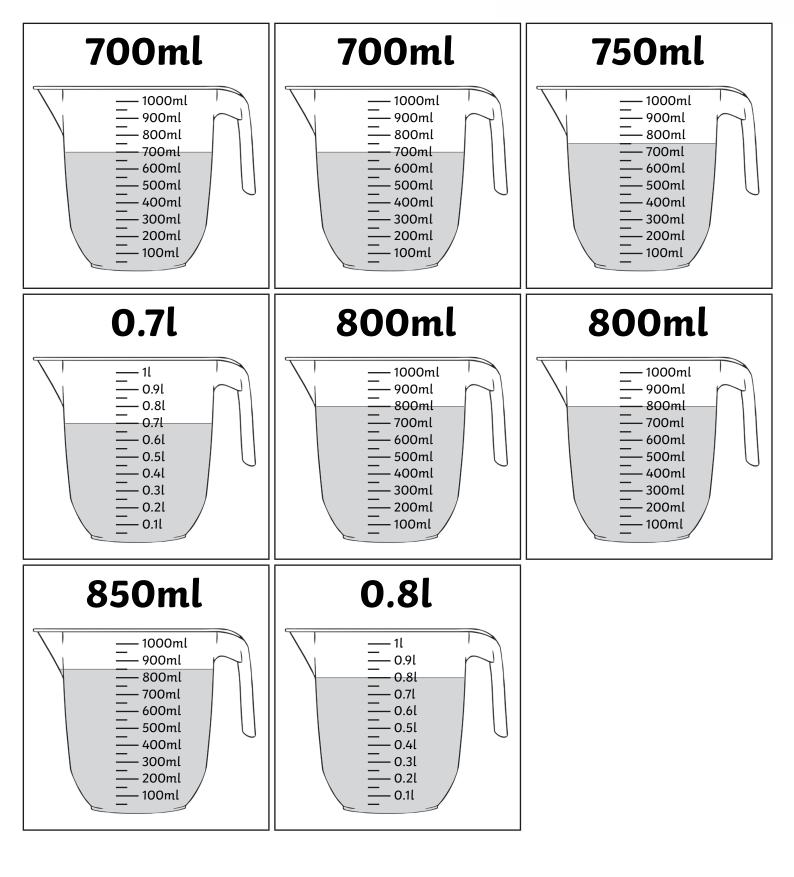


Find the volumes of the ten possible smoothies they can make in both millilitres and litres using these ingredients.









Measurement | Converting Millilitres and Litres

I can convert metric measures involving volume and capacity (litres and millilitres).	
I can multiply by 1000 to convert measurements from litres to millilitres.	
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I can convert between litres and millilitres to solve problems.	

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Maths | Year 5 | Measurement | Converting Metric Measurements | Lesson 4 of 4: Converting Millilitres and Litres