

# Converting Millilitres and Litres



# Aim

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

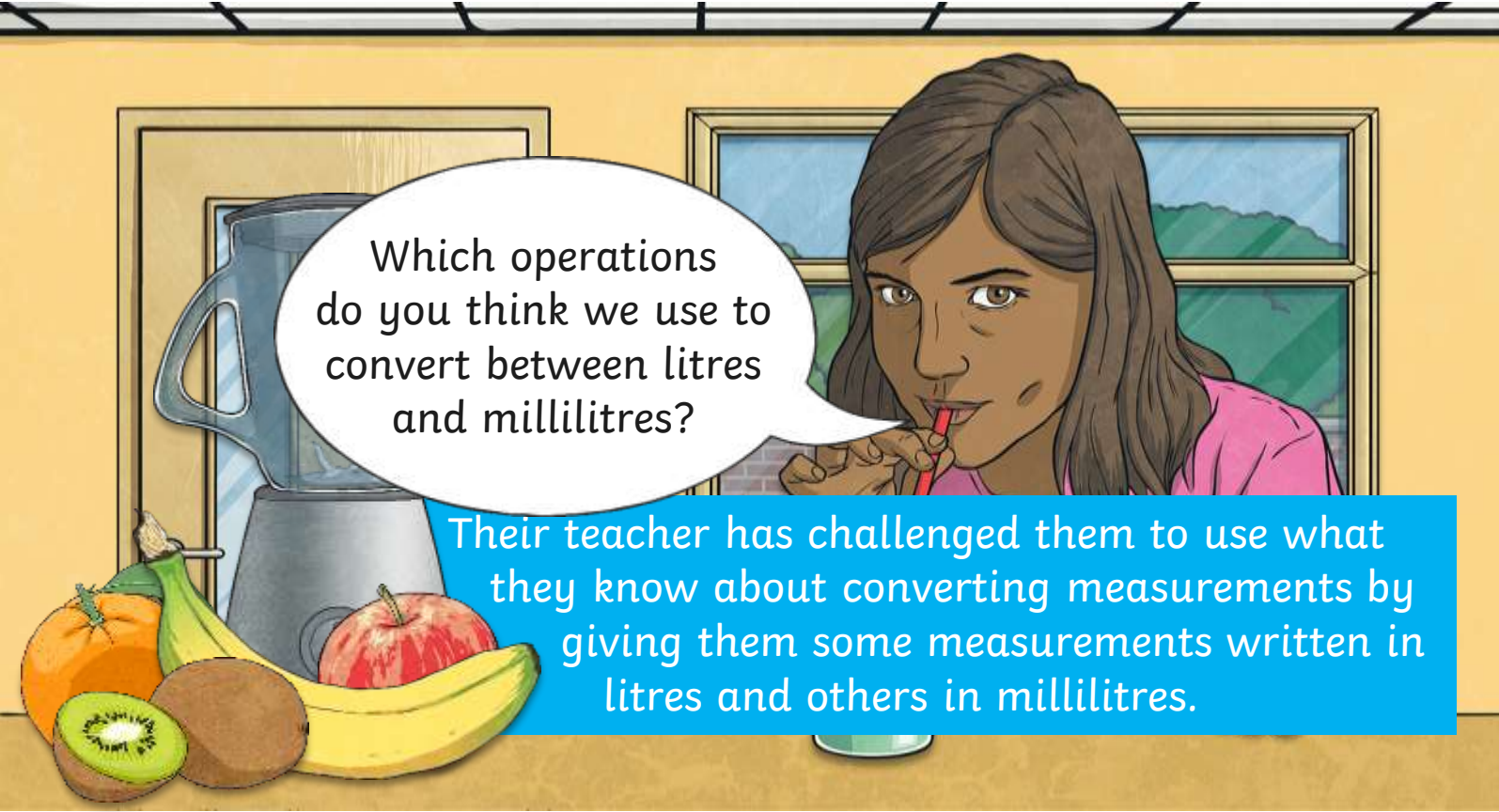
# Success Criteria

- 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

How many millilitres (ml) are in one litre (l)?

Class 5 are making fruit smoothies for their class party.

An illustration of a young girl with long brown hair, wearing a pink shirt, drinking from a red straw. She is looking thoughtful. In the background, there is a window showing a green landscape. To her left is a blue blender on a counter. In the foreground, there are various fruits: an orange, a banana, a kiwi (one whole, one sliced), and a red apple. A speech bubble from the girl contains the text: "Which operations do you think we use to convert between litres and millilitres?".

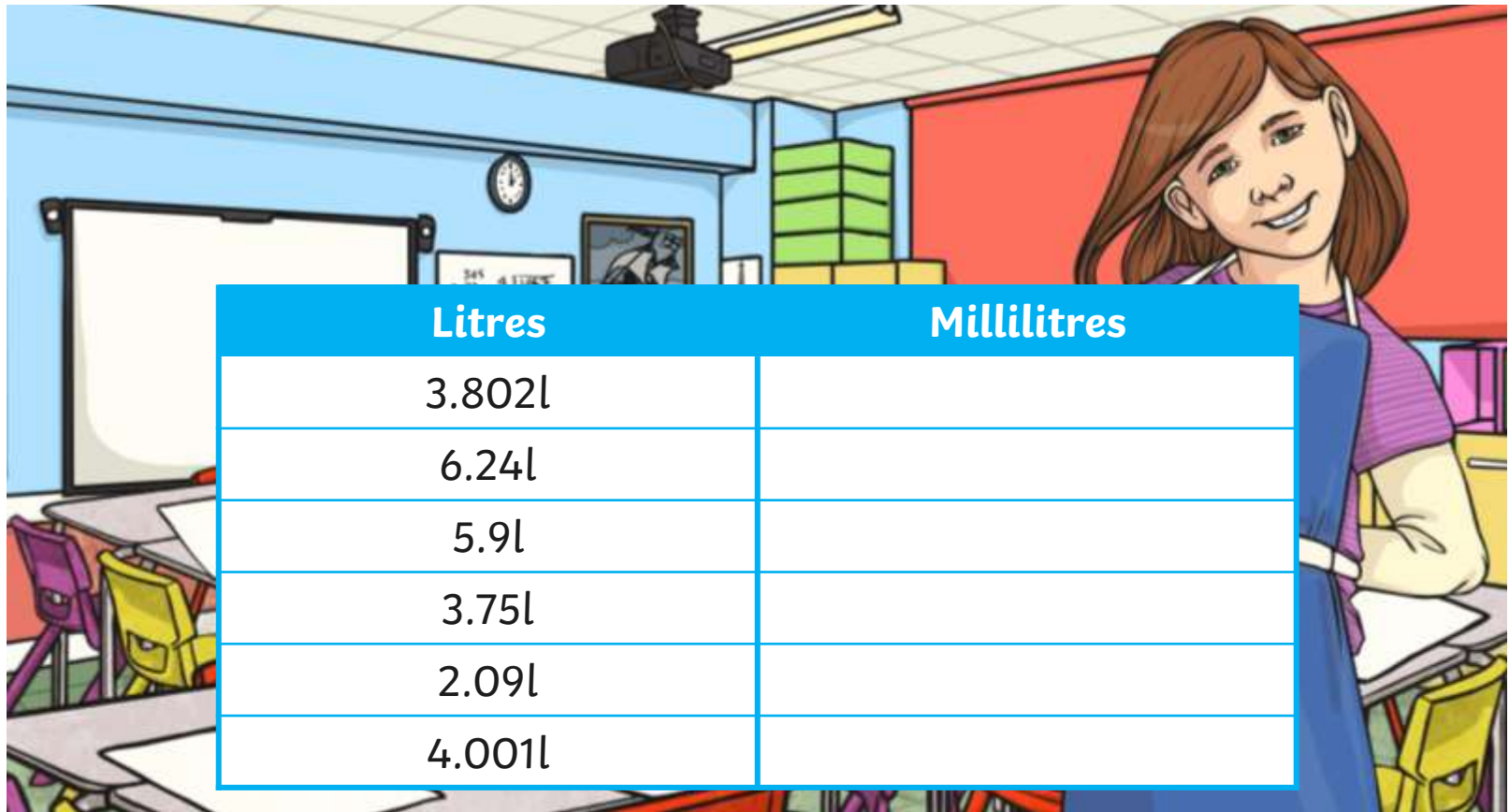
Which operations do you think we use to convert between litres and millilitres?

Their teacher has challenged them to use what they know about converting measurements by giving them some measurements written in litres and others in millilitres.

# Converting from Litres to Millilitres

Here are some of the measurements Class 5 used while they were making smoothies.

Practise converting these measurements from litres to millilitres. If the numbers include any zeros, pay attention to their position.

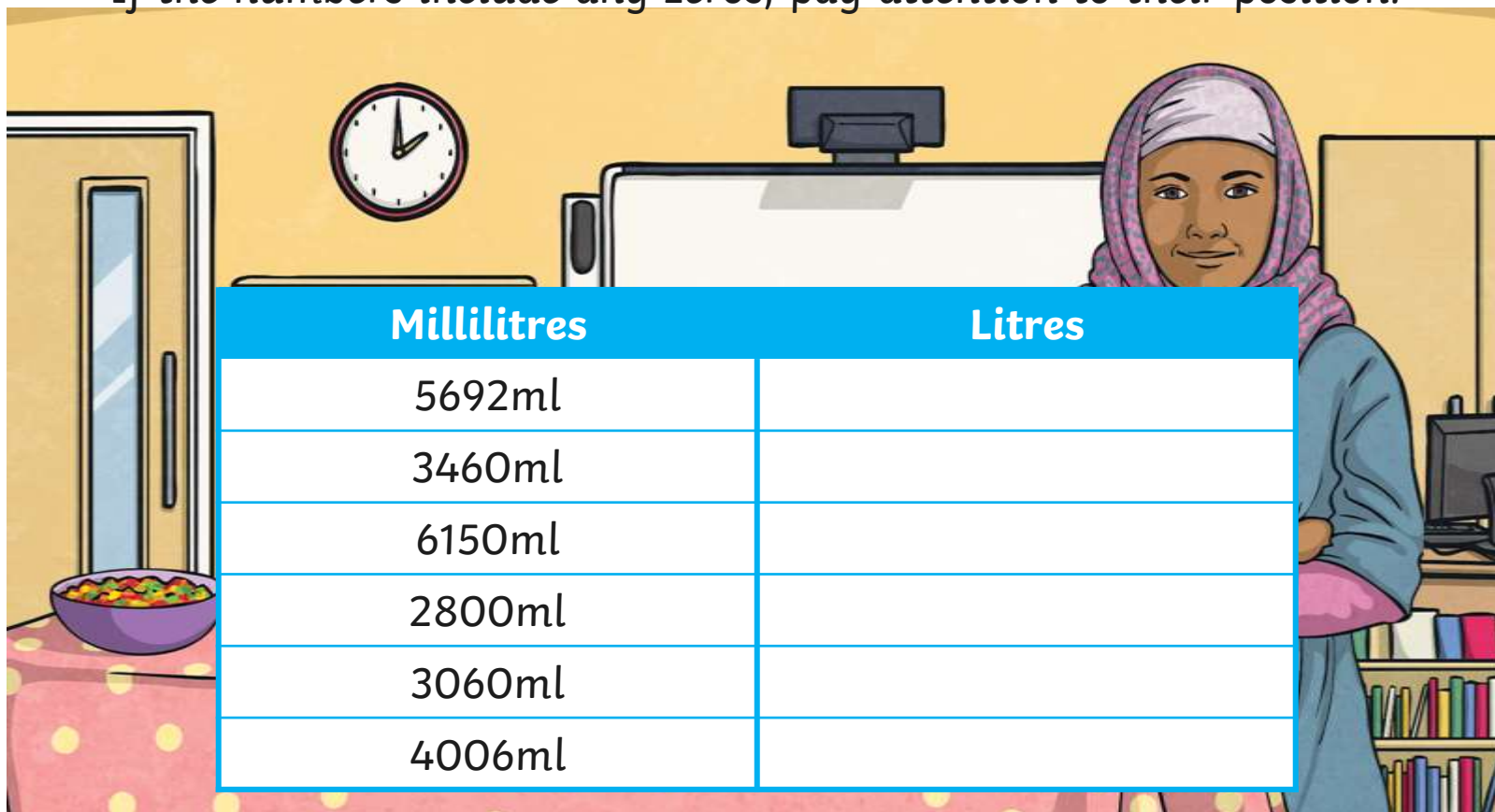
An illustration of a classroom. A female teacher with brown hair, wearing a purple shirt and a blue apron, stands behind a desk on the right. In the center, there is a table with a blue header and white rows. The table contains a list of measurements in litres to be converted into millilitres. The background shows a classroom with desks, chairs, a whiteboard, and a clock.

Litres	Millilitres
3.802l	
6.24l	
5.9l	
3.75l	
2.09l	
4.001l	

# Converting from Millilitres to Litres

Class 5 also followed some recipes with measurements given in millilitres.

Practise converting these measurements from millilitres to litres.  
If the numbers include any zeros, pay attention to their position.



The illustration shows a woman wearing a pink and white patterned headscarf and a blue long-sleeved top, standing behind a table. On the table is a bowl of colorful salad. In the background, there is a whiteboard, a clock on the wall, and a bookshelf filled with books. The scene is set in a kitchen or classroom environment.

Millilitres	Litres
5692ml	
3460ml	
6150ml	
2800ml	
3060ml	
4006ml	



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

2700ml
4400ml
1950ml
7280ml
3406ml
3070ml

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
<b>2600ml</b>				<b>3250l</b>				

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

5600ml	2300ml	6800ml	4500ml	3450ml	7650ml	1240ml	4401ml	5060ml
<b>5.6l</b>				<b>3.45l</b>				

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      _____ →

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.

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

5500ml = 5.5l

4.3l = 4030ml

6.07l = 6700ml

2005ml = 2.05l

4) Hamish is making a fruit smoothie. He needs to make more than 3l to have enough to share with his friends. He adds 1.3l of pineapple juice, 1550ml of orange juice and 230ml of mango juice. Does he have enough for all his friends?

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- 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 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:





$$\begin{array}{r} 1030 \\ 0004 \\ 0800 \\ + 0125 \\ \hline 1959 \text{ ml} \end{array}$$

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?

- 1) 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 litre.


	
Name: <input type="text"/>	Name: <input type="text"/>
<input type="text"/> ml	<input type="text"/> ml
<input type="text"/> litres	<input type="text"/> litres
	
Name: <input type="text"/>	Name: <input type="text"/>
<input type="text"/> ml	<input type="text"/> ml
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<input type="text"/> ml
<input type="text"/> litres


Name: <input type="text"/>
<input type="text"/> ml
<input type="text"/> litres

The children mix their own smoothies using three different ingredients.

Cranberry juice	Pineapple juice
	
<input type="text"/> ml	<input type="text"/> ml
<input type="text"/> litres	<input type="text"/> litres

Coconut water	Lemonade	Apple juice
		
<input type="text"/> ml	<input type="text"/> ml	<input type="text"/> ml
<input type="text"/> litres	<input type="text"/> litres	<input type="text"/> litres

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

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