

Task 1	Task 2
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Practice

Complete the part whole models:

1. 2L and 900ML

2. 2L and 100ML

3. 8L and 300ML

4. 10L and 300ML

5. Draw lines between these boxes to make the calculations correct:

Start	+ or -	Equals
1L and 300ml	+ 400ml	1L and 200ml
2L and 800ml	+ 2L and 300ml	2L and 800ml
500ml	- 1L and 600ml	1L and 700ml

Practice

1. Which two of these containers would you need to have a total of 3L and 600ml?

2L and 300ml	200ml	3L and 400ml
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2. Which three of these containers would you need to have a total of 9 ½ L?

$2 \frac{1}{2}$ L	$3 \frac{1}{2}$ L	$\frac{3}{4}$ L	$6 \frac{1}{4}$ L
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3. Which three of these containers would you need to have a total of 8 ½ L?

$2 \frac{1}{2}$ L	$4 \frac{1}{2}$ L	$3 \frac{1}{2}$ L	$1 \frac{1}{2}$ L
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4. Which three of these containers would you need to have a total of 6 ¼ L?

$1 \frac{1}{2}$ L	$4 \frac{1}{2}$ L	$\frac{1}{4}$ L	$5 \frac{1}{2}$ L
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Task 3

Reasoning

Explain your answers.

3a. Jon says, 'The jug has a capacity large enough to make 1 serving of milkshake.'

Milkshake Recipe

500ml milk
400ml strawberry juice



800ml

Is he correct? Prove it.
What is the difference between the capacity of the jug and the volume of liquid?



Jon is not correct because $500\text{ml} + 400\text{ml} = 900\text{ml}$. This is greater than the capacity of the jug. The difference between the capacity and the volume = 100ml

3b. Millie says, 'The jug has a capacity large enough to make 1 serving of juice.'

Juice Recipe

400ml water
300ml fresh orange



900ml

Is she correct? Prove it.
What is the difference between the capacity of the jug and the volume of liquid?



Millie is correct because the total volume of the juice is $400\text{ml} + 300\text{ml} = 700\text{ml}$. The difference between the capacity and the volume = 200m

6a. Lu says, 'The jug has a capacity large enough to make 2 lots of slime.'

Slime Recipe

1L and 100ml glue
1L and 600ml washing liquid



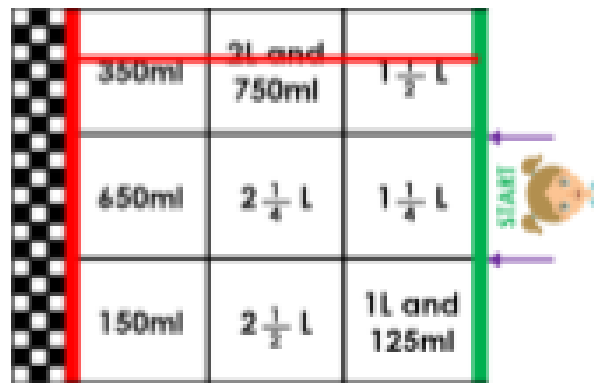
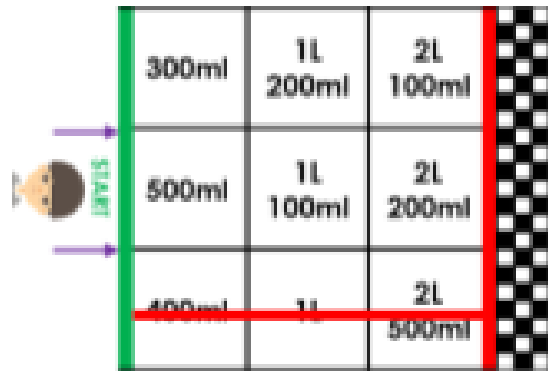
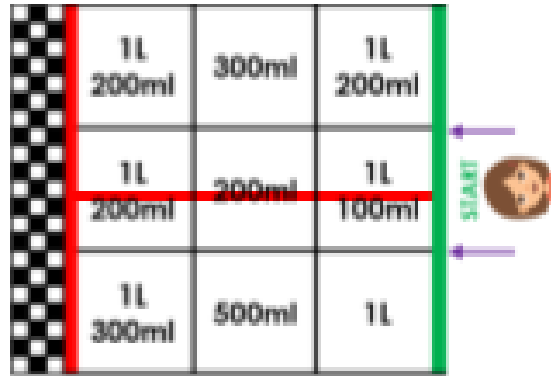
4L and 900ml

Is he correct? Prove it.
What is the difference between the capacity of the jug and the volume of liquid?

Lu is not correct because two portions of slime would have a total volume of 5L and 400ml. ($1\text{L} + 100\text{ml} + 1\text{L} + 600\text{ml} = 2\text{L} + 700\text{ml}$. $2\text{L} + 700\text{ml} \times 2 = 5\text{L} + 400\text{ml}$) The difference between the capacity and the volume = 500ml

Task 4

Problem solving



Challenge

1. You have been given a mission to remove sugary drinks from the supermarket. How many ways can you find to collect the bottles so your checkout total is 4L and 400ml?

Various answers, for example:

