

Varied Fluency

Step 8: Add and Subtract Capacities

National Curriculum Objectives:

Mathematics Year 3: (3M9d) [Add and subtract volume/ capacity \(l/ ml\)](#)

Differentiation:

Developing Questions to support adding and subtracting capacities of 2 items, using various representations. Measures given in both ml and L, with no conversions or exchanges within questions; multiples of 100.

Expected Questions to support adding and subtracting capacities of up to 3 items, using various representations. Measures given in both ml and L, with some exchanging and crossing tens; multiples of 50 and 100 where some measures are represented as fractions, for example $2\frac{1}{2}$ L.

Greater Depth Questions to support adding and subtracting capacities of up to 3 items, using various representations. Measures given in both ml and L, of any number, with exchanging and crossing tens where some measures are represented as fractions, for example $2\frac{1}{2}$ L.

More [Year 3 Mass and Capacity](#) resources.

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Add and Subtract Capacities

Add and Subtract Capacities

1a. 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



VF

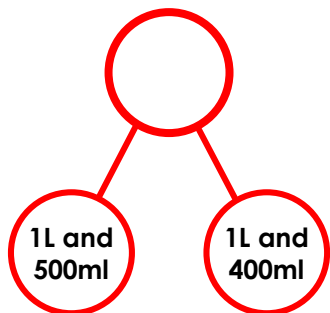
1b. Draw lines between these boxes to make the calculations correct.

Start	+ or -	Equals
800ml	- 1L and 500ml	1L and 900ml
3L and 400ml	- 1L and 100ml	1L and 200ml
2L and 700ml	+ 1L and 100ml	2L and 300ml



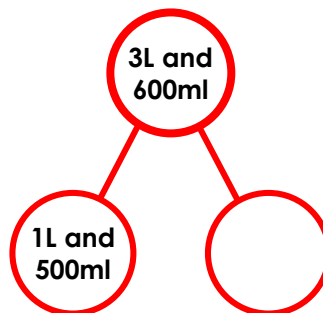
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2a. Complete the part whole model.



VF

2b. Complete the part whole model.



VF

3a. Find the difference between the containers:

	Container	Capacity
A and C	A	1L and 500ml
B and C	B	1L and 900ml
	C	1L and 400ml



VF

3b. Find the difference between the containers:

	Container	Capacity
A and B	A	2L and 600ml
A and C	B	1L and 500ml
	C	2L and 300ml



VF

4a. Which two of these containers would you need to have a total of 3L and 700ml?



1L and 300ml	1L and 200ml	2L and 400ml
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VF

4b. 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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Add and Subtract Capacities

Add and Subtract Capacities

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

Start	+ or -	Equals
3L and 400ml	+ 2L and 700ml	6L and 400ml
8L and 900ml	- 2L and 250ml	6L and 100ml
4L and 400ml	- 2L and 500ml	2L and 150ml



VF

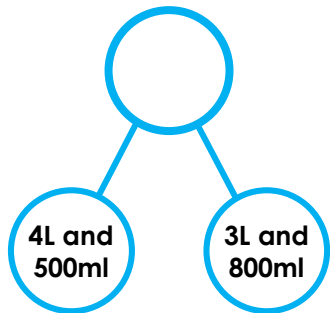
5b. Draw lines between these boxes to make the calculations correct.

Start	+ or -	Equals
1L and 900ml	+ 1L and 600ml	2L and 900ml
5L and 450ml	- 2L and 550ml	3L and 500ml
2L and 850ml	+ 2L and 100ml	4L and 950ml



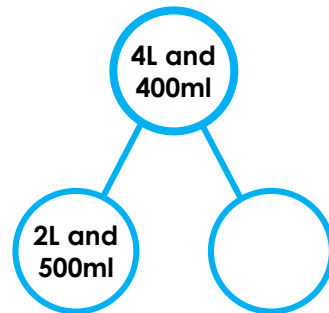
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6a. Complete the part whole model.



VF

6b. Complete the part whole model.



VF

7a. Find the difference between the containers:

	Container	Capacity
A and C	A	4L and 500ml
B and C	B	5L and 700ml
	C	2L and 950ml



VF

7b. Find the difference between the containers:

	Container	Capacity
A and B	A	7L and 600ml
B and C	B	3L and 500ml
	C	2L and 700ml



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8a. Which three of these containers would you need to have a total of $9\frac{1}{2}$ L?



$2\frac{1}{2}$ L	$3\frac{1}{2}$ L	$\frac{3}{4}$ L	$6\frac{1}{4}$ L
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8b. Which three of these containers would you need to have a total of $8\frac{1}{2}$ 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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Add and Subtract Capacities

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9a. Draw lines between these boxes to make the calculations correct.

Start	+ or -	Equals
5L and 150ml	- 4L and 350ml	7L and 495ml
6L and 350ml	+ 2L and 345ml	7L and 000ml
4L and 475ml	+ 2L and 525ml	4L and 500ml
6L and 875ml	- 1L and 850ml	2L and 525ml



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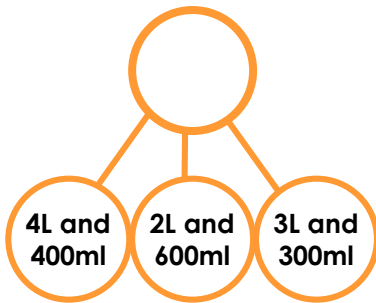
9b. Draw lines between these boxes to make the calculations correct.

Start	+ or -	Equals
5L and 500ml	- 2L and 350ml	7L and 970ml
6L and 250ml	+ 2L and 500ml	7L and 75ml
4L and 575ml	- 5L and 450ml	4L and 450ml
9L and 900ml	+ 1L and 720ml	3L and 150ml



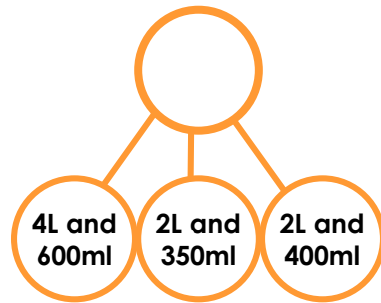
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10a. Complete the part whole model.



VF

10b. Complete the part whole model.



VF

11a. Find the difference between the containers:

	Container	Capacity
A and C	A	2L and 350ml
B and C	B	6L and 950ml
	C	3L and 200ml



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11b. Find the difference between the containers:

	Container	Capacity
A and B	A	7L and 900ml
B and C	B	3L and 50ml
	C	2L and 800ml



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12a. Which three of these containers would you need to have a total of 11L?

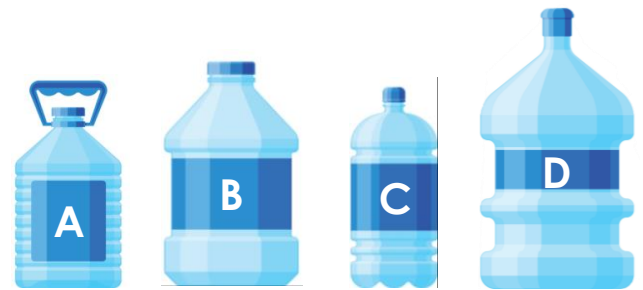


$3 \frac{1}{2}$ L	$2 \frac{1}{4}$ L	$1 \frac{3}{4}$ L	$5 \frac{3}{4}$ L
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12b. Which three of these containers would you need to have a total of 14L?



$2 \frac{3}{4}$ L	$4 \frac{1}{2}$ L	$3 \frac{1}{4}$ L	$6 \frac{3}{4}$ L
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Varied Fluency Add and Subtract Capacities

Developing

- 1a. 1L and 300ml + 400ml = 1L and 700ml;
2L and 800ml – 1L and 600ml = 1L and
200ml; 500ml + 2L and 300ml = 2L and
800ml
2a. 2L and 900ml
3a. A and C = 100ml, B and C = 500ml
4a. A and C

Expected

- 5a. 3L and 400ml + 2L and 700ml = 6L and
100ml
8L and 900ml – 2L and 500ml = 6L and
400ml
4L and 400ml – 2L and 250ml = 2L and
150ml
6a. A = 8L and 300ml
7a. A and C = 1L and 550ml, B and
C = 2L and 750ml
8a. A, C and D

Greater Depth

- 9a. 5L and 150ml + 2L and 345ml = 7L and
495ml
6L and 350ml – 1L and 850ml = 4L and
500ml
4L and 475ml + 2L and 525ml = 7L and
000ml
6L and 875ml – 4L and 350ml = 2L and
525ml
10a. 10L and 300ml
11a. A and C = 850ml,
B and C = 3L and 750ml
12a. A, C and D

Varied Fluency Add and Subtract Capacities

Developing

- 1b. 800ml + 1L and 100ml = 1L and 900ml
3L and 400ml – 1L and 100ml = 2L and
300ml; 2L 700ml – 1L and 500ml = 1L and
200ml
2b. 2L and 100ml
3b. A and B = 1L and 100ml, A and C =
300ml
4b. B and C

Expected

- 5b. 1L and 900ml + 1L and 600ml = 3L and
500ml
5L and 450ml – 2L and 550ml = 2L and
900ml
2L and 850ml + 2L and 100ml = 4L and
950ml
6b. A = 1L and 900ml
7b. 7b. A and B = 4L and 100ml, B and
C = 800ml
8b. A, B and D

Greater Depth

- 9b. 5L and 500ml – 2L and 350ml = 3L and
150ml
6L and 250ml + 1L and 720ml = 7L and
970ml
4L and 575ml + 2L and 500ml = 7L and
75ml
9L and 900ml – 5L and 450ml = 4L and
450ml
10b. 9L and 350ml
11b. A and B = 4L and 850ml,
B and C = 250ml
12b. A, B and D