Varied Fluency
Step 8: Add and Subtract Capacities

National Curriculum Objectives:

Mathematics Year 3: (3M9d) Add and subtract volume/capacity (l/ml)

Differentiation:

Developing Addition and subtraction calculations of millilitres. Measurements given in multiples of 100. Calculations do not involve any conversions.
Expected Addition and subtraction calculations of mixed measurements of litres and millilitres. Measurements given in multiples of 100. Calculations do not involve any conversions.
Greater Depth Addition and subtraction calculations of mixed measurements of litres and millilitres. Measurements given in multiples of 100. Calculations involve some conversion between millilitres and litres.

More resources which follow the same small steps as White Rose.

Did you like this resource? Don't forget to review it on our website.

Varied Fluency – Add and Subtract Capacities

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

Start	Add	Equals
300ml	100ml	700ml
800ml	400ml	900ml
600ml	200ml	800ml

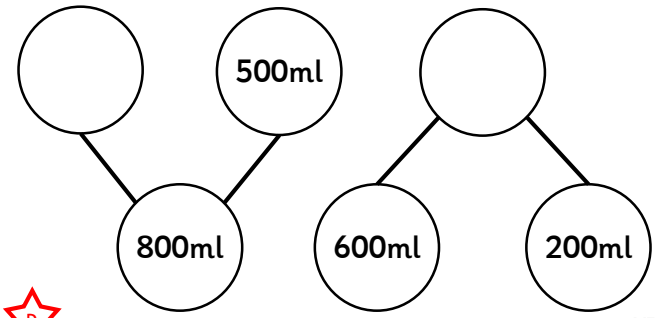
D VF

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

Start	Subtract	Equals
800ml	100ml	300ml
500ml	600ml	200ml
700ml	200ml	600ml

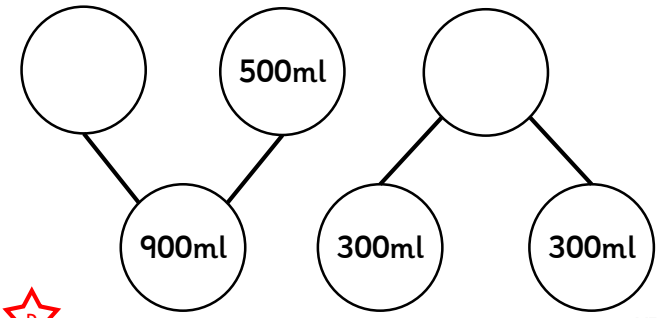
D VF

2a. Complete the part/whole models.



D VF

2b. Complete the part/whole models.



D VF

3a. Find the difference between containers:

A and B

A and C

Container	Capacity
A	500ml
B	900ml
C	400ml

D VF

3b. Find the difference between containers:

A and B

B and C

Container	Capacity
A	600ml
B	700ml
C	300ml

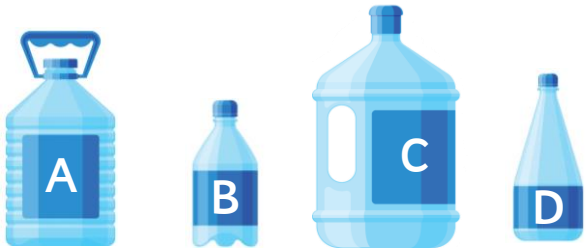
D VF

4a. Which two containers would you need to fill to have a total of: 700ml?

300ml	200ml	400ml	800ml

D VF

4b. Which two containers would you need to fill to have a total of: 400ml?



400ml	100ml	600ml	300ml

D VF

Varied Fluency – Add and Subtract Capacities

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

Start	Add	Equals
3l 400ml	2l 200ml	6l 600ml
8l 500ml	3l 200ml	9l 600ml
4l 200ml	1l 100ml	6l 400ml

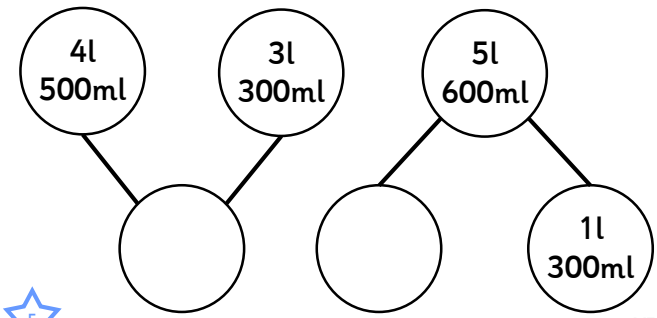
E VF

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

Start	Subtract	Equals
4l 700ml	1l 200ml	l 700ml
8l 200ml	3l 300ml	3l 100ml
6l 400ml	3l 100ml	7l

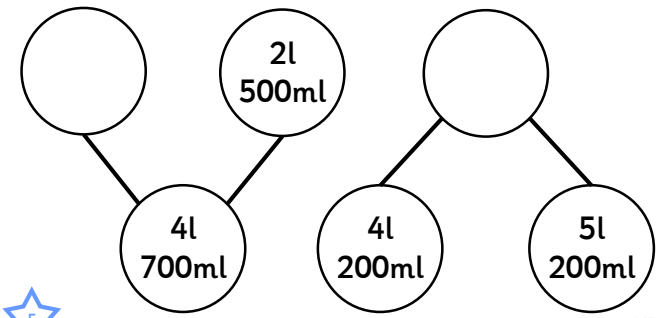
E VF

6a. Complete the part/whole models.



E VF

6b. Complete the part/whole models.



E VF

7a. Find the difference between containers:

A and B

B and C

Container	Capacity
A	4l 500ml
B	5l 500ml
C	6l 100ml

E VF

7b. Find the difference between containers:

A and C

B and C

Container	Capacity
A	7l 600ml
B	3l
C	3l 600ml

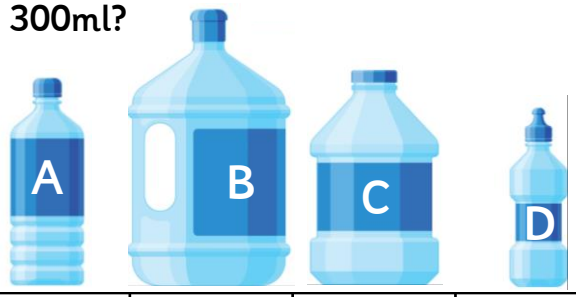
E VF

8a. Which two containers would you need to fill to have a total of: 3l 600ml?

2l 400ml	3l 100ml	500ml	6l 300ml

E VF

8b. Which two containers would you need to fill to have a total of: 8l 300ml?



2l 500ml	7l 100ml	4l 400ml	1l 200ml

E VF

Varied Fluency – Add and Subtract Capacities

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

Start	Add	Equals
6l 700ml	4l 700ml	7l 600ml
2l 900ml	2l 700ml	8l 100ml
6l 600ml	1l 400ml	9l 300ml

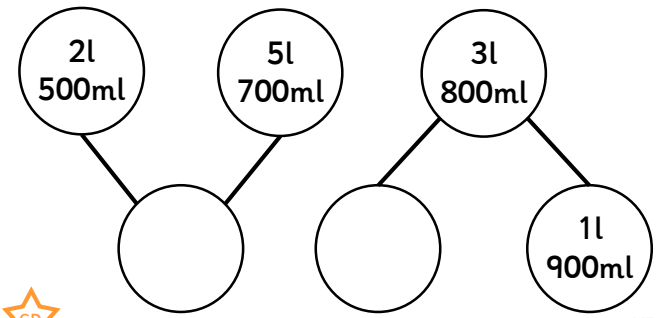
VF

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

Start	Subtract	Equals
5l 600ml	3l 700ml	4l 900ml
7l 400ml	4l 600ml	1l 900ml
9l 200ml	2l 500ml	4l 600ml

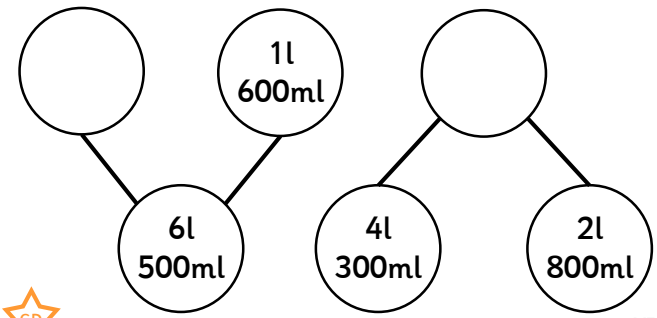
VF

10a. Complete the part/whole models.



VF

10b. Complete the part/whole models.



VF

11a. Find the difference between containers:

A and B

B and C

Container	Capacity
A	2l 300ml
B	6l 900ml
C	3l 200ml

VF

11b. Find the difference between containers:

A and C

A and B

Container	Capacity
A	7l 900ml
B	4l 300ml
C	5l 800ml

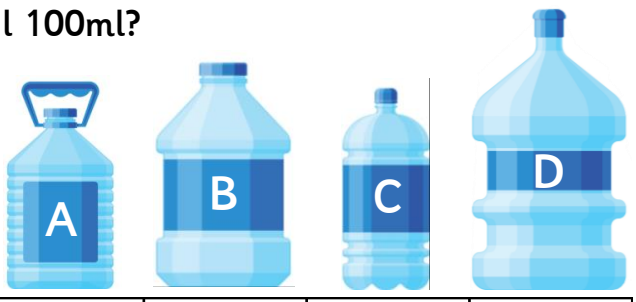
VF

12a. Which two containers would you need to fill to have a total of:
5l 600ml?

2l 100ml	2l	200ml	3l 500ml

VF

12b. Which two containers would you need to fill to have a total of:
9l 100ml?



4l 100ml	4l 200ml	2l 400ml	4l 900ml

VF

Varied Fluency – Add and Subtract Capacities

Developing

1a.

Start	Add	Equals
300ml	100ml	700ml
800ml	400ml	900ml
600ml	200ml	800ml

1b.

Start	Subtract	Equals
800ml	100ml	300ml
500ml	600ml	200ml
700ml	200ml	600ml

2a. 300ml; 800ml
2b. 400ml; 600ml
3a. 400ml; 100ml
3b. 100ml; 400ml
4a. A and C
4b. B and D

Expected

5a.

Start	Add	Equals
3l 400ml	2l 200ml	6l 600ml
8l 500ml	3l 200ml	9l 600ml
4l 200ml	1l 100ml	6l 400ml

5b.

Start	Subtract	Equals
4l 700ml	1l 200ml	l 700ml
8l 200ml	3l 300ml	3l 100ml
6l 400ml	3l 100ml	7l

6a. 7l 800ml; 4l 300ml
6b. 2l 200ml; 9l 400ml
7a. 1l; 600ml
7b. 4l; 600ml
8a. B and C
8b. B and D

Greater Depth

9a.

Start	Add	Equals
6l 700ml	4l 700ml	7l 600ml
2l 900ml	2l 700ml	8l 100ml
6l 600ml	1l 400ml	9l 300ml

9b.

Start	Subtract	Equals
5l 600ml	3l 700ml	4l 900ml
7l 400ml	4l 600ml	1l 900ml
9l 200ml	2l 500ml	4l 600ml

10a. 8l 200ml; 1l 900ml
10b. 4l 900ml; 7l 100ml
11a. 4l 600ml; 3l 700ml
11b. 2l 100ml; 3l 600ml
12a. A and D
12b. B and D