Dear Parents/Carers,
This powerpoint takes the children through the learning sequence. If possible please talk through the slides with your child and check their understanding. The slides start at a basic level to re-cap previous learning.

Mass, Capacity and Temperature

2.6.20

2.6.20

LO: I can add and subtract capacities



Mathematical Vocabulary

Capacity is the amount something can hold.

Volume is the amount of something in the container.

Try this out at home -

Get a jug. How many millilitres (ml) does the jug hold? This is the capacity.

Fill the jug with 250ml of water. This is the volume.

We measure liquid in millilitres (ml) and litres (l).

There are 1000ml in 1l

Starter

Match pairs of measurements to make 1L.

750ml

650ml

400ml

150ml

450ml

900ml

350ml

550ml

850ml

250ml

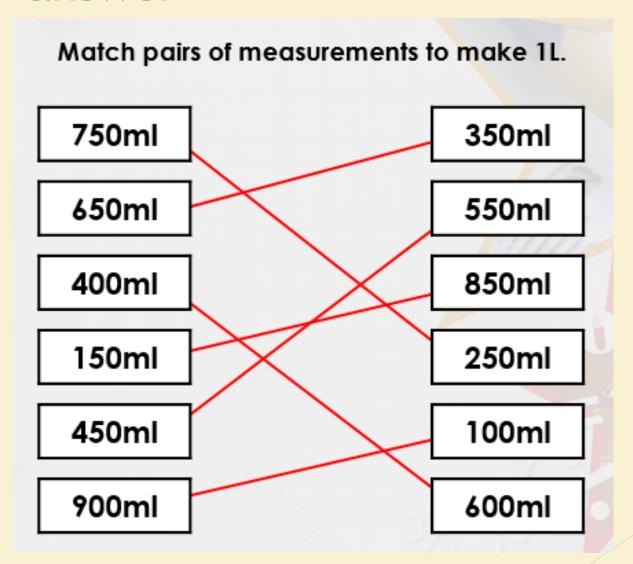
100ml

600ml

Write the answers in your book.

Remember, 1000ml
= 1l.

Starter - answer



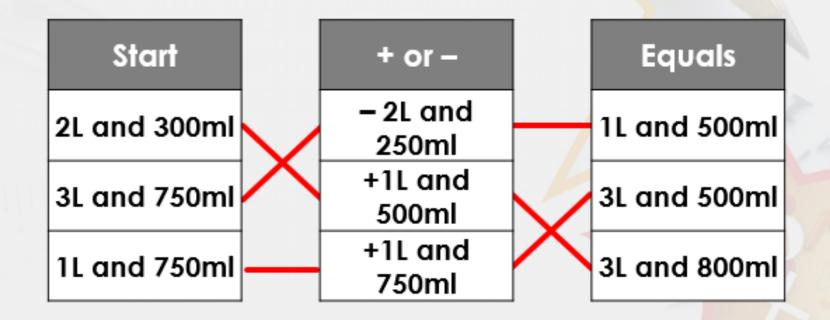
Descriptive Teaching

Draw lines between the boxes to make these calculations correct.

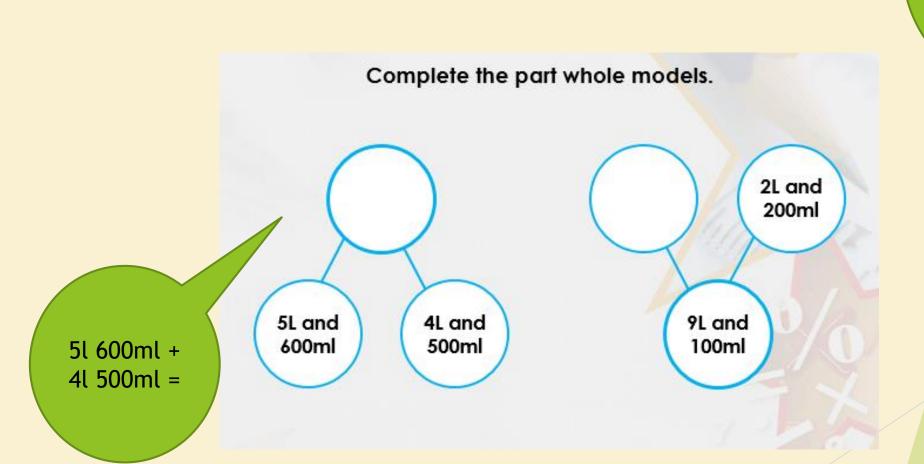
Write the sums in your book. One has been done for you.

Descriptive Teaching - Answer

Draw lines between the boxes to make these calculations correct.



Descriptive Doing



9l 100ml - 2l 200ml =

Descriptive Doing - Answer



Reflective Teaching

Find the difference between the containers:

A and C
B and C

Container	Capacity
A	3L and 400ml
В	5L and 650ml
С	1L and 750ml

To find the difference what operation do you need to use?

Reflective Teaching - Answers

Find the difference between the containers:

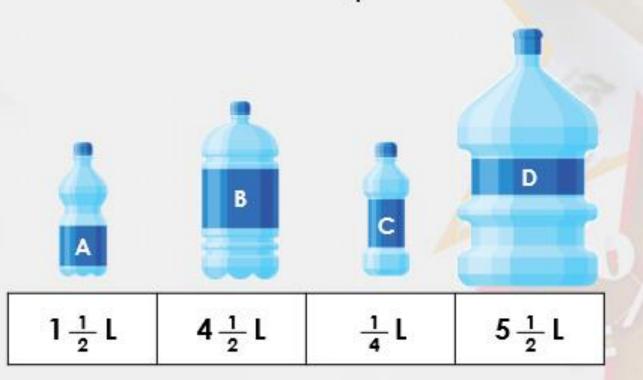
A and C
B and C

Container	Capacity
Α	3L and 400ml
В	5L and 650ml
С	1L and 750ml

A and C = 3L and 400ml – 1L and 750ml = 1L and 650ml B and C = 5L and 650ml – 1L and 750ml = 3L and 900ml

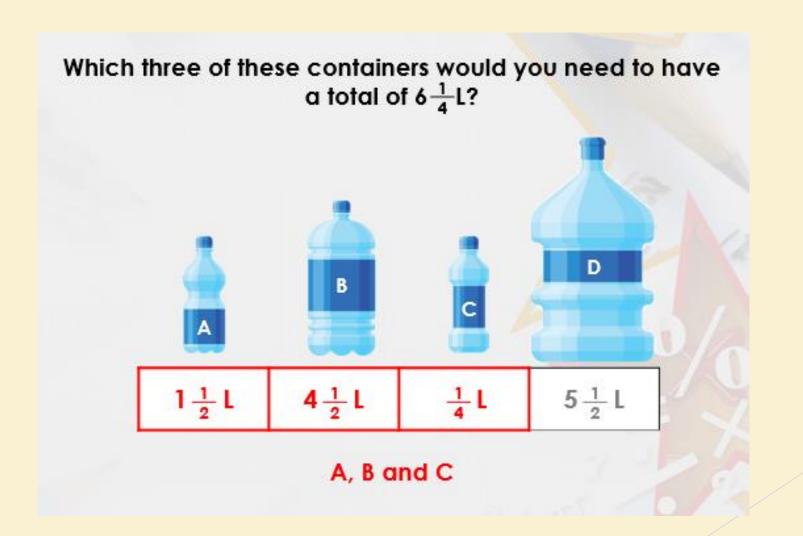
Reflective Doing

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



How many ml in ¼ l?

Reflective Doing - Answers



The following slides are questions for you to work through independently.

There are 3 sets of work - 1 chili (the easiest), 2 chilies, 3 chilies (the hardest). Choose one set you feel most comfortable with.



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

Start
1L and 300ml
2L and 800ml
500ml

+ or –
+ 400ml
+ 2L and 300ml
– 1L and 600ml

	Equ	als
1L	and	200ml
2L	and	800ml
1L	and	700ml

quals	Start
nd 200ml	800ml
nd 800ml	3L and 400m
nd 700ml	2L and 700m

tart	+ or –
00ml	– 1L and 500ml
d 400ml	– 1L and 100ml
d 700ml	+ 1L and 100ml

make the calculations correct.

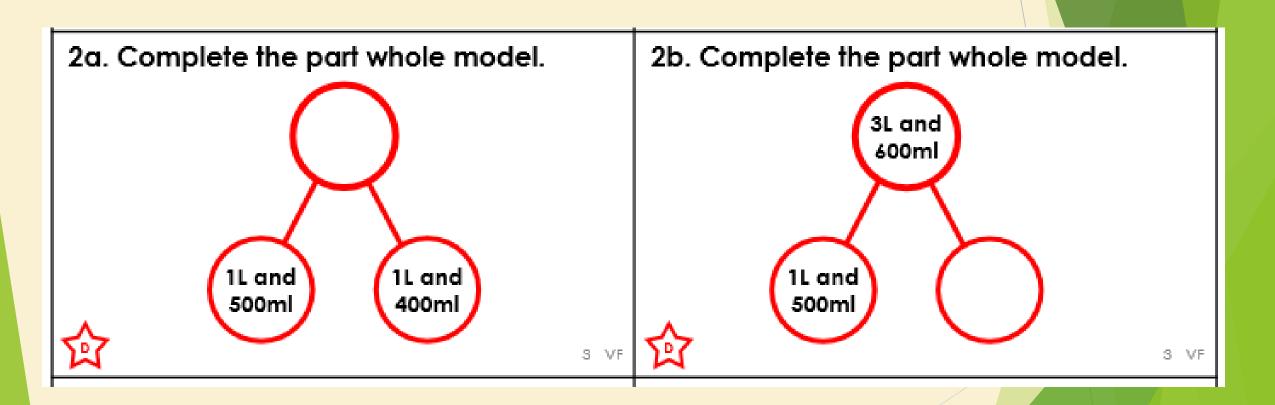
1b. Draw lines between these boxes to

Equals
1L and 900ml
1L and 200ml
2L and 300ml











3a. Find the difference between the containers:

A and C
B and C

Container	Capacity
Α	1L and 500ml
В	1L and 900ml
С	1L and 400ml

3b. Find the difference between the containers:

A and B

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Container	Capacity
Α	2L and 600ml
В	1L and 500ml
С	2L and 300ml

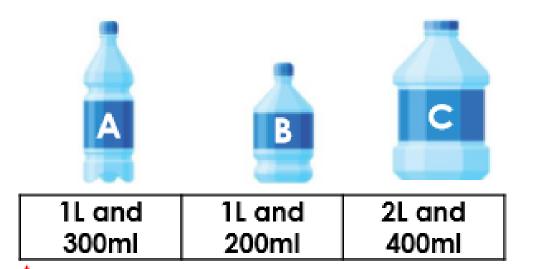




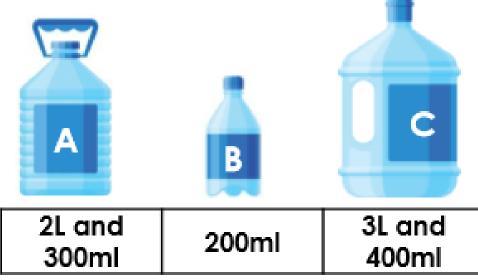
3 VF



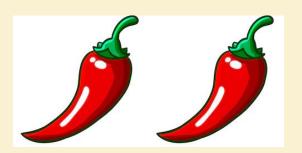
4a. Which two of these containers would you need to have a total of 3L and 700ml?



4b. Which two of these containers would you need to have a total of 3L and 600ml?







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

Start
3L and 400ml
8L and 900ml
4L and 400ml

+ or –
+ 2L and 700ml
– 2L and 250ml
– 2L and 500ml

Equals	
6L and 400ml	1L a
6L and 100ml	5L a
2L and 150ml	2L a

	Start	
)ml	1L and 900ml	
)ml	5L and 450ml	
)ml	2L and 850ml	

	+ 01	r —
+ 11	. and	600ml
– 2l	. and	550ml
+ 21	. and	100ml

5b. Draw lines between these boxes to

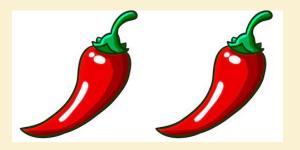
make the calculations correct.

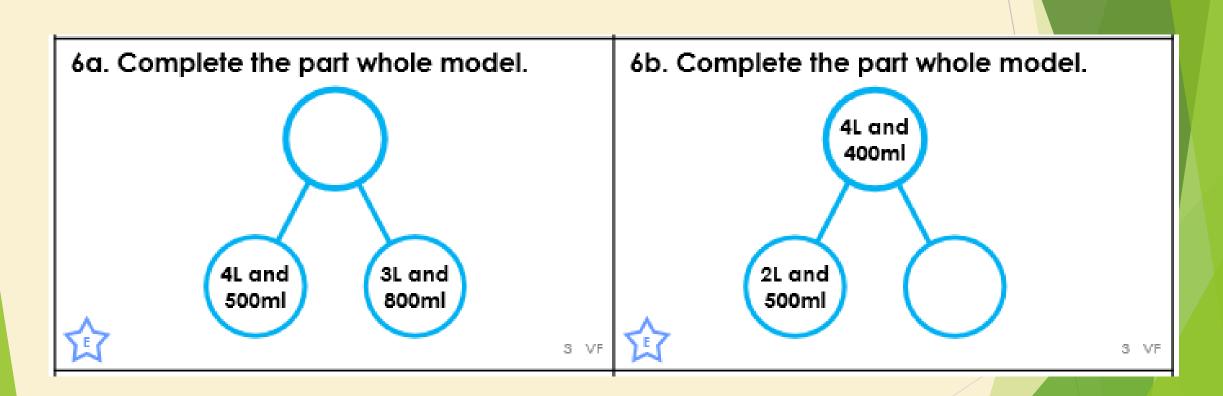
	Equals	
ı	2L and 900ml	
I	3L and 500ml	
	4L and 950ml	

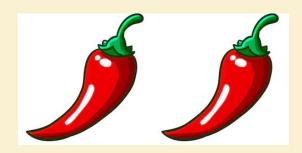




3 VF







7a. Find the difference between the containers:

A and C B and C

Container	Capacity
Α	4L and 500ml
В	5L and 700ml
С	2L and 950ml

7b. Find the difference between the containers:

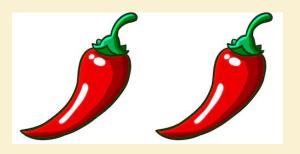
A and B
B and C

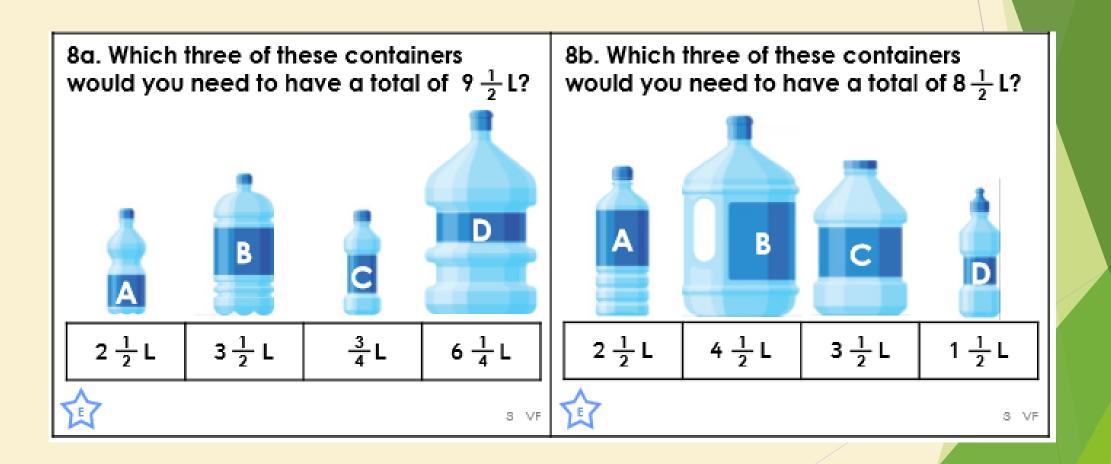
Container	Capacity
Α	7L and 600ml
В	3L and 500ml
C	2L and 700ml





3 VF







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

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5L and 150ml

6L and 350ml

4L and 475ml

6L and 875ml

+ or -

4L and 350ml

+ 2L and 345ml

|+ 2L and 525ml

- 1L and 850ml

Equals

7L and 495ml

7L and 000ml

4L and 500ml

2L and 525ml

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

Start

5L and 500ml

6L and 250ml

4L and 575ml

9L and 900ml

+ or -

– 2L and 350ml

+ 2L and 500ml

– 5L and 450ml

+ 1L and 720ml

Equals

7L and 970ml

7L and 75ml

|4L and 450ml

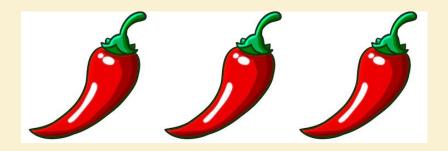
3L and 150ml

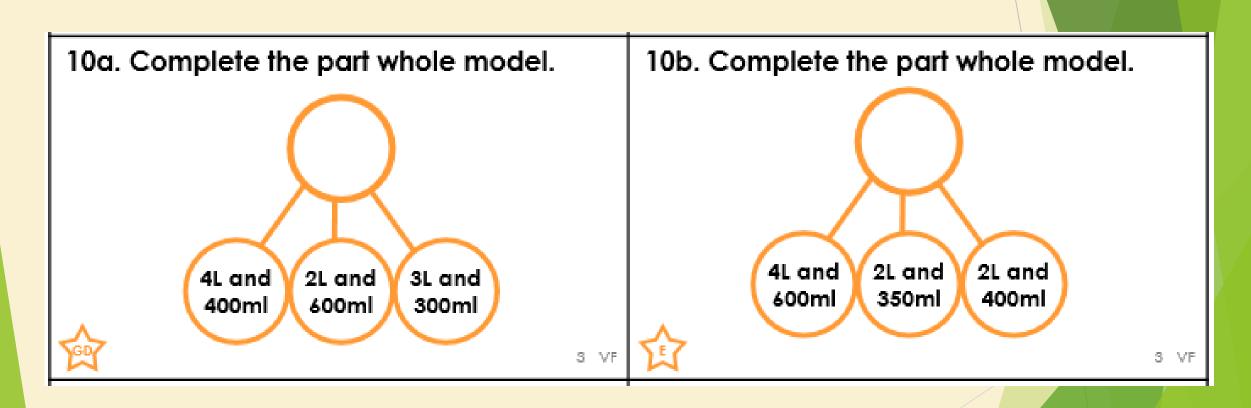


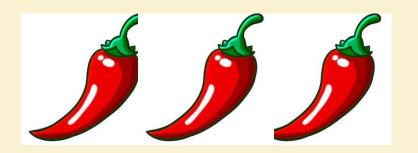
S VF



3 VF







11a. Find the difference between the containers:

A and C
B and C

Container	Capacity
Α	2L and 350ml
В	6L and 950ml
С	3L and 200ml

11b. Find the difference between the containers:

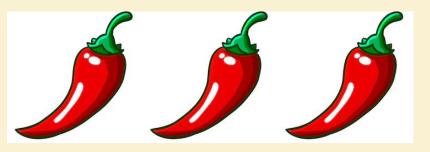
A and B B and C

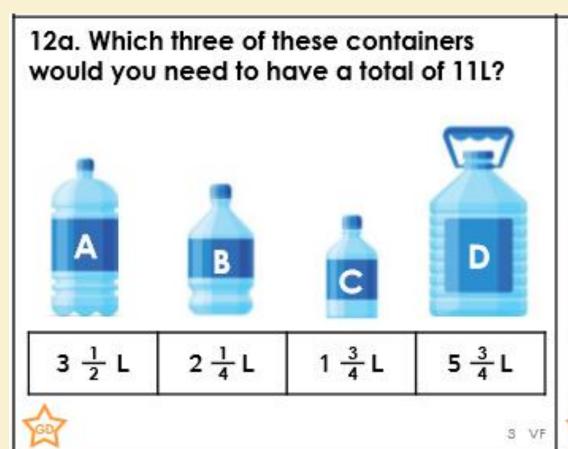
Container	Capacity
Α	7L and 900ml
В	3L and 50ml
С	2L and 800ml

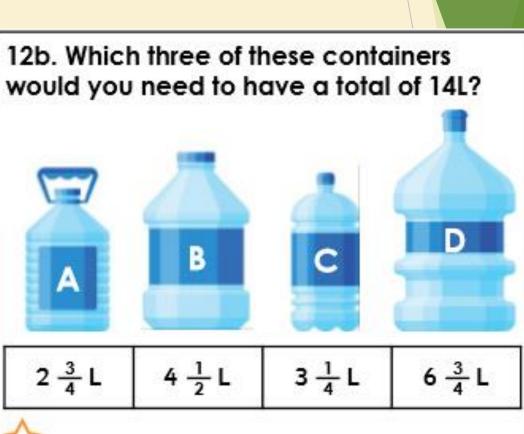




3 VF







Answers

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

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

Reflection Time



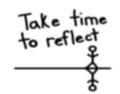
Andy the alchemist is sorting through his oil lamps.

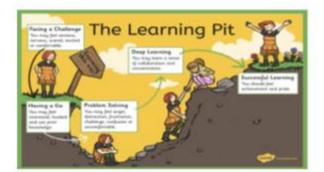
Oil lamp A holds 1L and 350ml more than oil lamp C. Oil lamp C's capacity is double Oil lamp B's capacity.



Oil lamp B's capacity = 300ml

What are the capacities of Oil lamp A and C?





Reflection Time - Answers



Andy the alchemist is sorting through his oil lamps.

Oil lamp A holds 1L and 350ml more than oil lamp C. Oil lamp C's capacity is double Oil lamp B's capacity.



Oil lamp B's capacity = 300ml

A = 1L and 350ml + 600ml = 1L and 950ml C = 300ml x 2 = 600ml

> What are the capacities of Oil lamp A and C?

