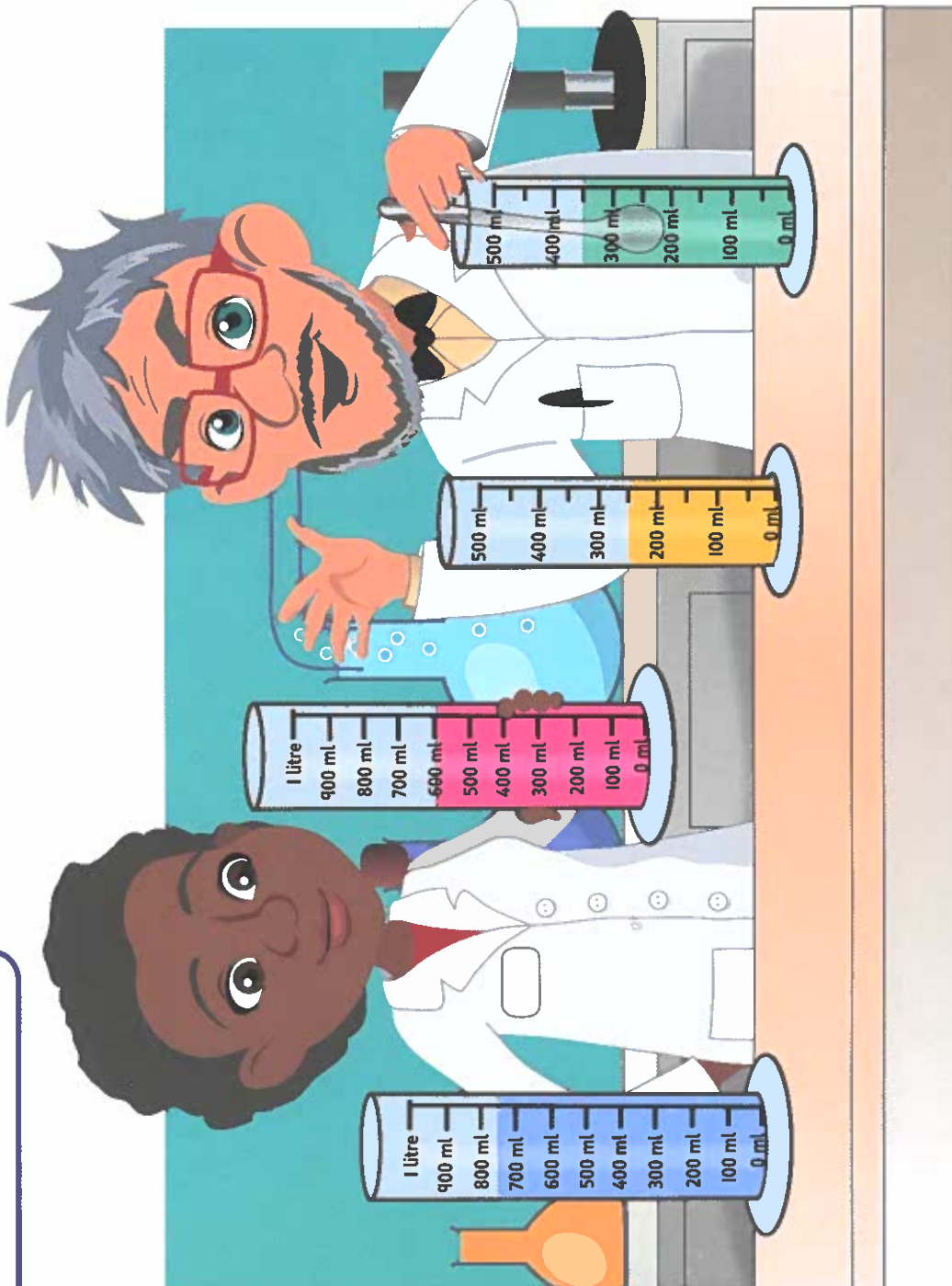


Adding and subtracting capacities

Discover

Doctor Crawford

Professor Smith



- a) Which scientist has less than 1 l of liquid altogether?
- b) How much more liquid does one scientist have than the other?

Share

I will use $1\text{ l} = 1,000\text{ ml}$ and $500\text{ ml} = \frac{1}{2}\text{ l}$ to help me.

Doctor Crawford

1 l	
1,000 ml	
500 ml	500 ml
600 ml	750 ml

Professor Smith

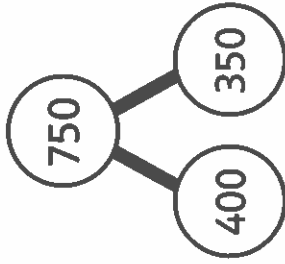
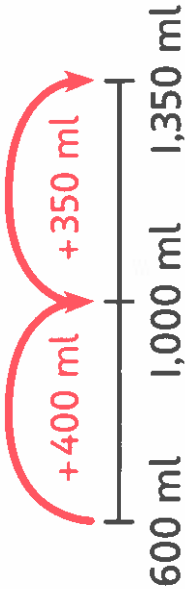
1 l	
1,000 ml	
500 ml	500 ml
250 ml	350 ml

Doctor Crawford: 750 ml and 600 ml are both greater than 500 ml. So 750 ml + 600 ml must be greater than 1,000 ml

Professor Smith: 250 ml and 350 ml are both less than 500 ml. So 250 ml + 350 ml must be less than 1,000 ml

Professor Smith has less than 1 litre of liquid altogether.

- b) Professor Smith is using 600 ml. Doctor Crawford is using 1,350 ml.



$400\text{ ml} + 350\text{ ml} = 750\text{ ml}$

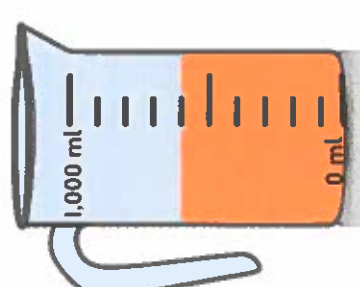
The doctor has 750 ml more liquid than the professor.

I used a number line to help me find the difference.

Think together

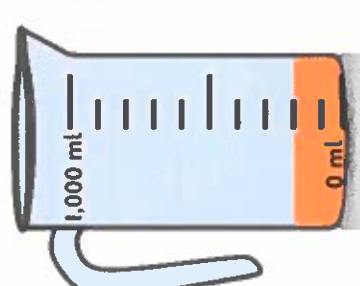
How much more liquid will you need to fill the jugs to 1 litre?

a)



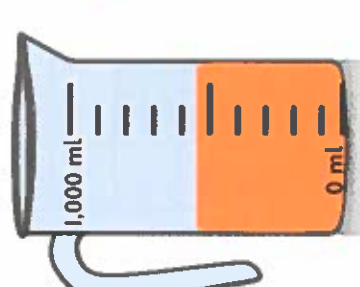
600 ml + ml = 1 l

b)



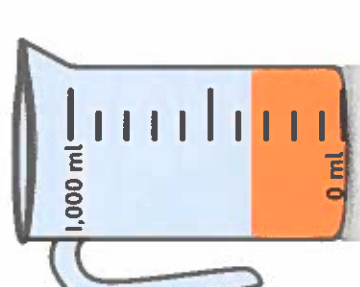
200 ml + ml = 1 l

c)



550 ml + ml = 1 l

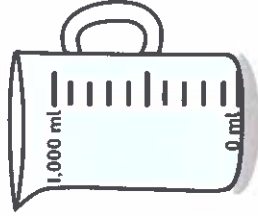
d)



350 ml + ml = 1 l

A litre jug is filled with water. 250 ml is poured out into a glass. How much is left in the jug?

ml is left in the jug.



What is the total capacity of these jugs?



1 l 400 ml



2 l 250 ml

1 l + 2 l = l

400 ml + 250 ml = ml

Total capacity = l ml

H	T	O
4	0	0
+	2	5
0		

I think I can add the litres and millilitres separately.



4 Both drinks are poured into one 3 l jug. How much more liquid is needed to fill the 3 l jug?

1 l 400 ml



800 ml



First of all, I will add the litres and millilitres.

1 l	400 ml	800 ml
1 l		ml
	l ml	

How many ml are there in 3 l? That should be easy as I know that there are 1,000 ml in 1 l.

3 l
l ml
ml

ml more liquid is needed to fill the 3 l jug.