

# CAPACITY CHALLENGES

Monday

Janine needs to fill a bucket with 2 litres (2000ml) of water. She has bottles which hold the following amounts.

200ml, 250ml, 500ml, 750ml. Give two different ways that Janine can fill the bucket (you may use each container more than once).

Tuesday

Lucien needs to fill a bucket with 1 litre 500ml (1500ml). He has containers which hold the following amounts: 100ml, 200ml, 250ml, 300ml. Give two different ways that Lucien can fill the bucket (you may use each container more than once).

Thursday

There is a tea urn and a teapot. The bottles next to them show their capacity.



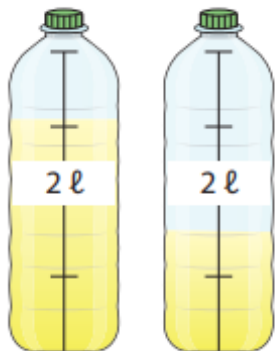
How much more water does the urn hold than the teapot?

Friday

These lemonade bottles each have a capacity of 2 litres.

One of them is  $\frac{3}{4}$  full, and one of them contains  $\frac{3}{4}$  of a litre of water.

Which is which?



How much water is in the bottle which is  $\frac{3}{4}$  full?

What fraction of the bottle is full in the bottle which contains  $\frac{3}{4}$  of a litre?