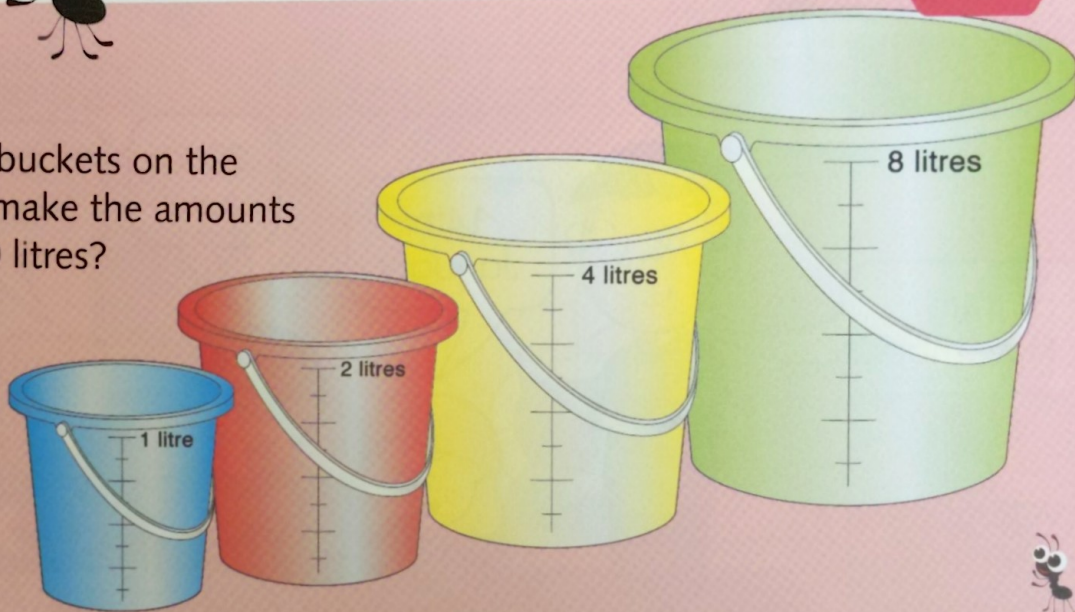




### Challenge

Using only the four buckets on the right, how can you make the amounts from 1 litre up to 30 litres?

The buckets must be full and you must fill them as few times as possible.



### Think about ...

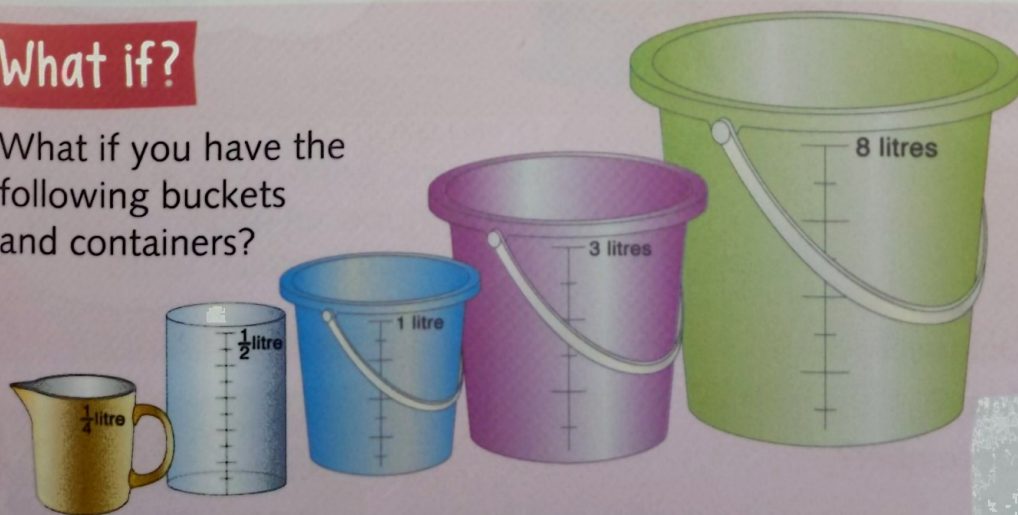
Work systematically through each litre, from 1 litre to 30 litres. Look out for patterns to help you.



There will be more than one way to make most amounts from 1 litre to 30 litres. Find the way that uses the smallest number of full buckets each time.

### What if?

What if you have the following buckets and containers?



How many different amounts can you measure if you can only fill each bucket or container once?

When you've finished, turn to page 80.

