

Mastery: Capacity Problem Solving - Can You Help?

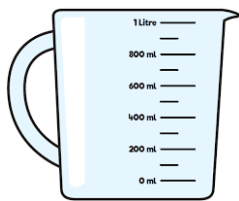


King Azul thinks the supplier of his favourite soft drink is cheating him but he can't prove it.

Meerchum insists he is supplying the king with bottles which **have exactly 400ml of Zoom** in them but the king is not so sure, especially as Meerchum is getting richer by the day.

The king's problem would be easy to resolve if he had a measuring jug that could measure 400ml but the ship that was bringing hundreds of them to Azucadia was captured by pirates.

All that's available in the kingdom are litre containers, a 500ml container and a 300ml container.



1 litre



500ml



300ml

1. Can you work out a way to check that the bottles of Zoom contain exactly 400ml?

If you succeed, the king has another challenge for you...

2. He has decided to award the job of court mathematician to anyone who can produce a measuring container showing multiples of 100ml up to a litre.

Can you get the job?

