# Diving into Mastery – Diving

## Adult Guidance with Question Prompts

It may help to have a measuring jug to 1000ml for children to look at when doing this activity.

How much liquid is in each of these containers?

Is this the volume of the container or the capacity?

Can you complete the statements? Which words could you use to compare the capacity of the containers?

Can you show how much orange juice would be in the measuring jug if you poured it all out?
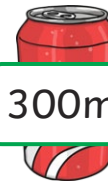
---

## Millilitres

Fill in the blanks to complete the statements about these containers.
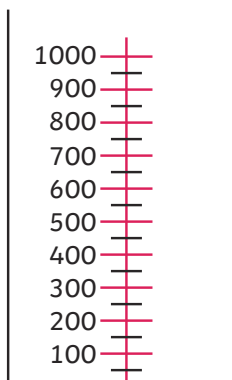
750ml

300ml

550ml

The bottle of milk holds _____ than the can of cola.
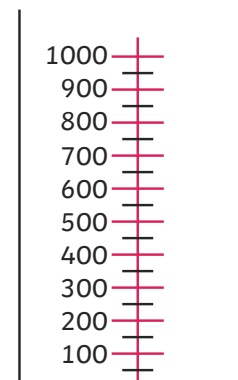
The capacity of the can of cola is _____ ml.

The can of cola holds _____ than the carton of orange juice.

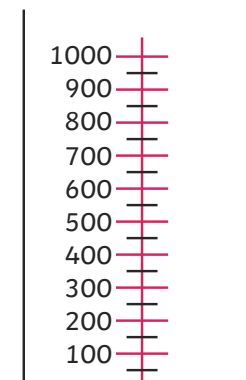### Colour in these measuring jugs to show the volume of liquid.

| 1000 | 1000 | 1000 |
| 900 | 900 | 900 |
| 800 | 800 | 800 |
| 700 | 700 | 700 |
| 600 | 600 | 600 |
| 500 | 500 | 500 |
| 400 | 400 | 400 |
| 300 | 300 | 300 |
| 200 | 200 | 200 |
| 100 | 100 | 100 |

750ml          300ml          550ml

# Diving into Mastery – Deeper

## Adult Guidance with Question Prompts

Children use the scale to help them reason about the amount of water in the jug. Children will need a measuring jug for the final challenge. This could be done as a group activity.

Which numbers are labelled on the scale?

What do you think the unlabelled marks represent?

If you had to label the mark between 200ml and 300ml, what would you write? How do you know?

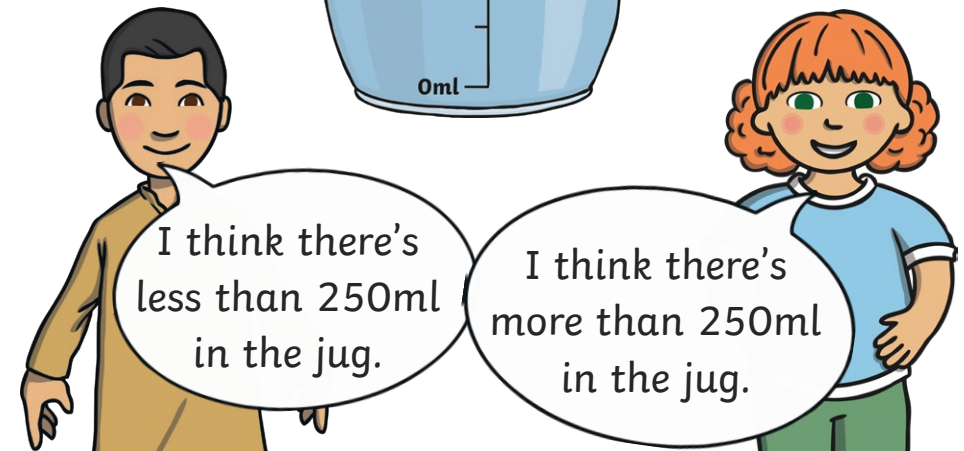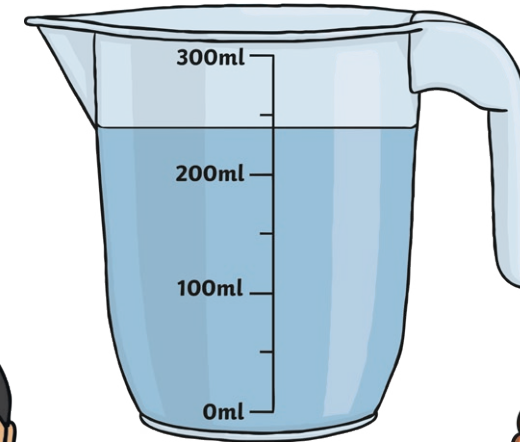Is the water level greater than or less than 250ml? How do you know?

Who is correct about the volume of water in the jug?

How much water do you think is in the jug? Why do you think that?

## Millilitres

**Ranjit and Holly are using a measuring jug to measure water.**



I think there's less than 250ml in the jug.

I think there's more than 250ml in the jug.

Who is correct? Convince me! How much do you think is in the jug?

Pour some water into a jug so that it reaches an unlabelled interval. Challenge your friend to estimate how much water in in the jug. Can they explain how they worked it out?

# Diving into Mastery – Deepest

## Adult Guidance with Question Prompts

Children could count the spoons and teacups in tens or hundreds to make the total. They will need to use known facts to solve these problems.

How much liquid does the bottle hold?

How many spoons fill the bottle?

Can you write a calculation to show what we know and what we need to find out?

What operation will you use?

Children may write 10 × ? = 200ml or 200ml ÷ 10 = ?

Can you calculate the answer?

Which facts could help us?

Can we count in tens to help us?

How much tea does each cup hold?

How many cups are there?

Can you represent the problem with a calculation?

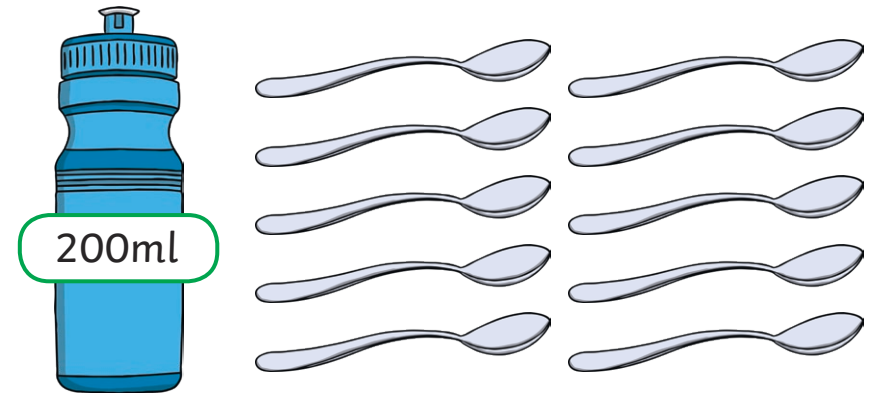Children may write 6 × 100ml = ? or 100ml × 6 = ?

Can you count in hundreds to find the answer?

## Millilitres

My bottle holds 200ml of water. It takes 10 spoons of water to fill the bottle.

What is the capacity of 1 spoon?

200ml

The capacity of a cup is 100ml. I can pour 6 cups of tea from my teapot. How much tea does the teapot hold?

Can you think of a capacity problem for your friend to solve?