

Unit 14

Capacity



In this unit we will ...

- ⚡ Measure capacity in litres and millilitres
- ⚡ Convert between litres and millilitres
- ⚡ Compare and order capacities
- ⚡ Add and subtract capacities
- ⚡ Solve problems involving capacities



Do you remember using a bar model to add numbers? Use this one to find the total.

350		500
		?



We will need some maths words. Which ones have you seen before?

capacity

litre (l)

millilitre (ml)

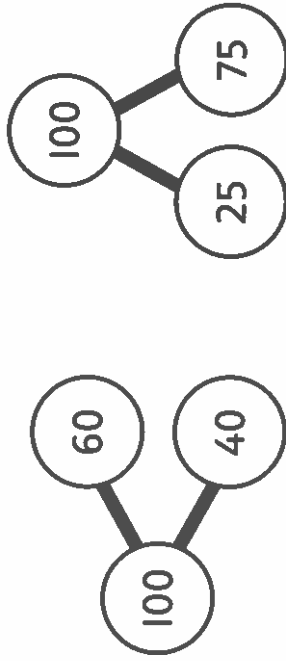
scale

interval

convert



Can you use part-whole models to partition numbers?



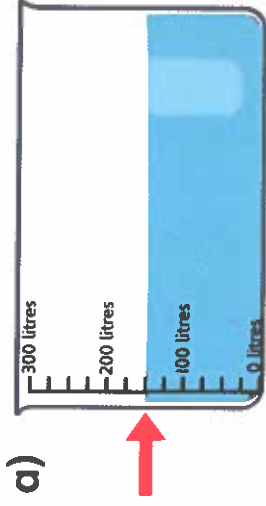
Measuring capacity 1

Discover



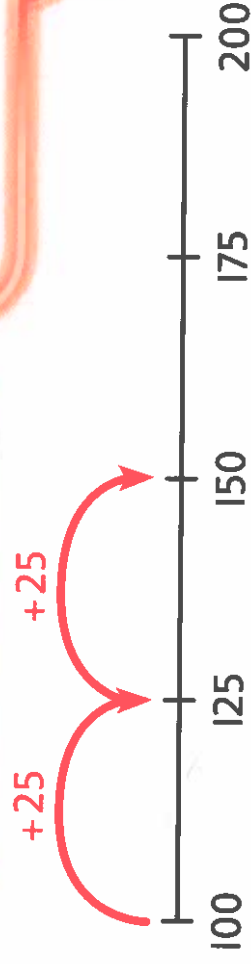
- The zookeeper has to make sure that the elephant has enough water to drink. How much water is left in the tank?
- The parrot's water bottle holds 200 ml. How many millilitres is each marker on the scale? How many millilitres of water are in the bottle?

Share



The water level is half-way between 100 litres and 200 litres. I need to work out which number is exactly half-way.

I could use a number line to find the intervals between the markers.

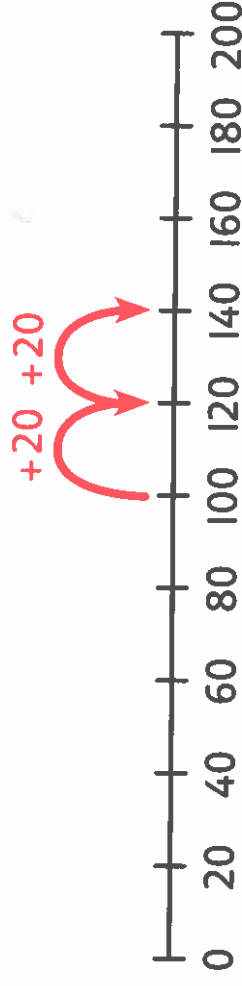
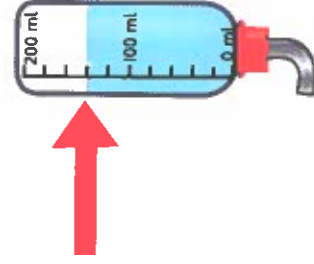


We measure capacity in millilitres (ml) and litres (l). Capacity is the total amount a container can hold.

150 litres is half-way between 100 litres and 200 litres. There are 150 litres of water left in the tank.

- Each 100 ml is divided into 5 sections. $100 \text{ ml} \div 5 = 20 \text{ ml}$. Each marker is 20 ml.

The water level is 100 ml + 20 ml + 20 ml = 140 ml. There are 140 ml of water in the bottle.



Think together

1 How much fuel is left in the tank?

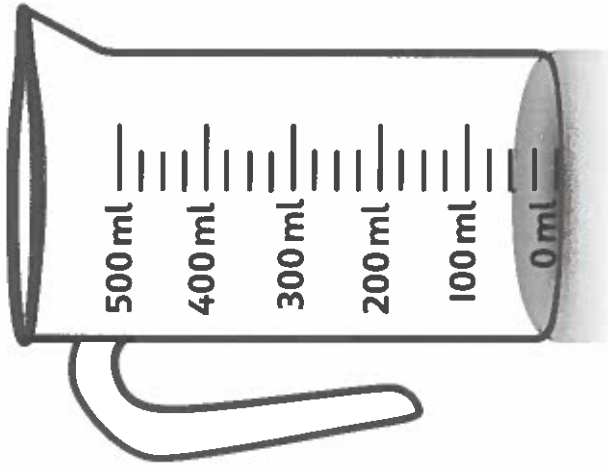


The scale is marked in intervals of l.

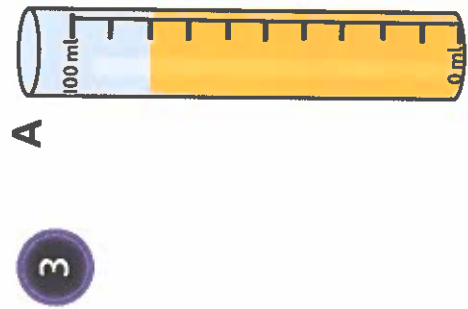
$7 \times \text{ } = \text{ }$ l

There are l of fuel left in the tank.

2 A recipe needs 275 ml of milk. Where is 275 ml on the jug's scale?



I need to work out what each mark between the numbers is worth.



a) How much liquid is in each container?

b) Put the containers in order from least amount of liquid to most amount of liquid.



It looks like A has the most liquid because it is higher.



All the containers have different scales. I need to check each one carefully.

4 Which approximate capacity matches each item?



CHALLENGE