



Session 44

Volume is the amount of s...
that is inside a c... .

Volume can be measured only for
... shapes.

Volume is measured in

... .

What is **capacity**?

The amount of l...
inside a container can be measured by
its **capacity**.

Liter is a unit of **capacity** or **liquid volume**.

1 litre = ... milliliters

Or

$$1 \text{ ml} = \frac{1}{1000\text{th}} \text{ l}$$

Lead-in

- Taking few boxes to the class asking Ss if they can guess/read how much each box weighs/which is heavier or lighter

Mass



What is
mass?

the **quantity**(=how much or how many of something)
of matter(=thing) **in an object**

→ The mass of the box of books is

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kg heavier than the mass of the box of toys.

The mass of the box of books is 31 kg.



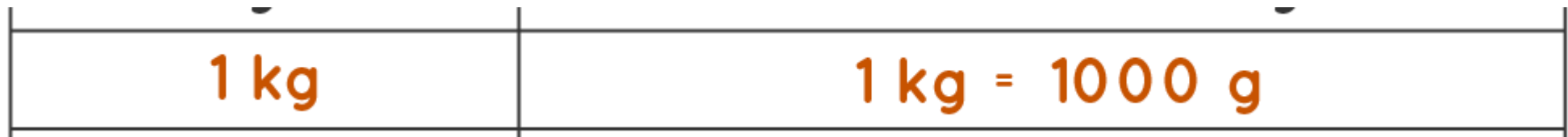
The mass of the box of toys is 25 kg.

Kilogram is a unit of **mass**.

$$1 \text{ kg} = 1000 \text{ grams}$$

Or

$$1 \text{ kg} = \frac{1}{1000\text{th}} \text{ g}$$



What is the unit of capacity or liquid volume?

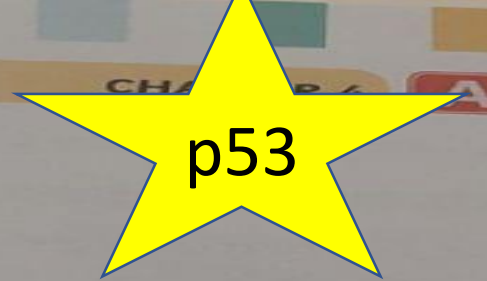
What is the unit of mass?

How many grams are there in 1 kilogram?

How many millilitres are there in 1 litre?

What is mass?

quantity of space/the volume inside container/ quantity of matter



* 4.4. Mass and capacity

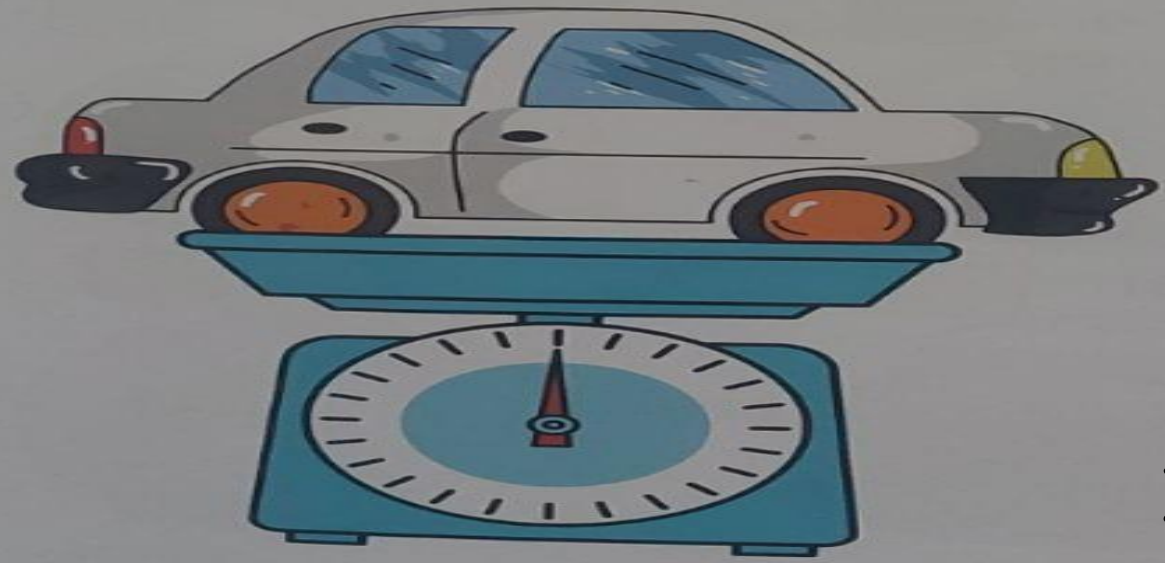
Let's investigate

One litre of petrol weighs approximately 700g.

The mass of my car was 1228 kg when I started my journey. At the end of the journey it was 1214.7 kg.

If I did not change the mass of the car in any way, except using the petrol, how many litres of petrol had I used?

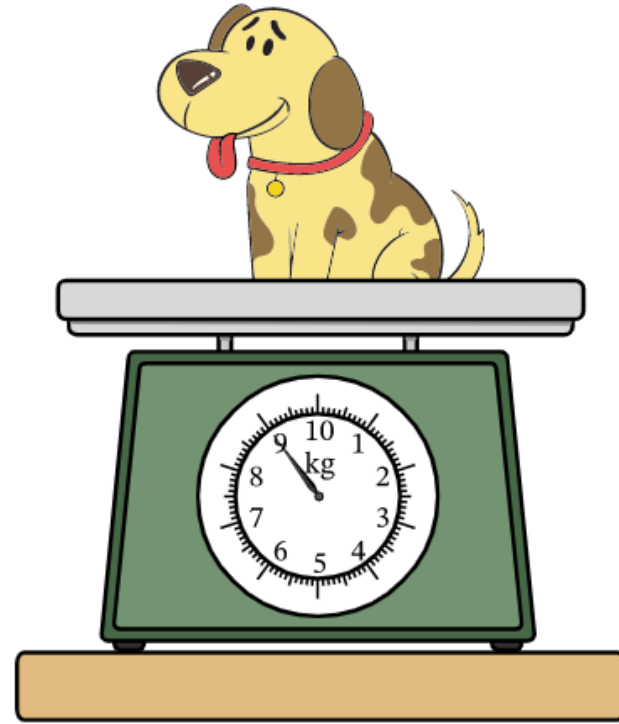
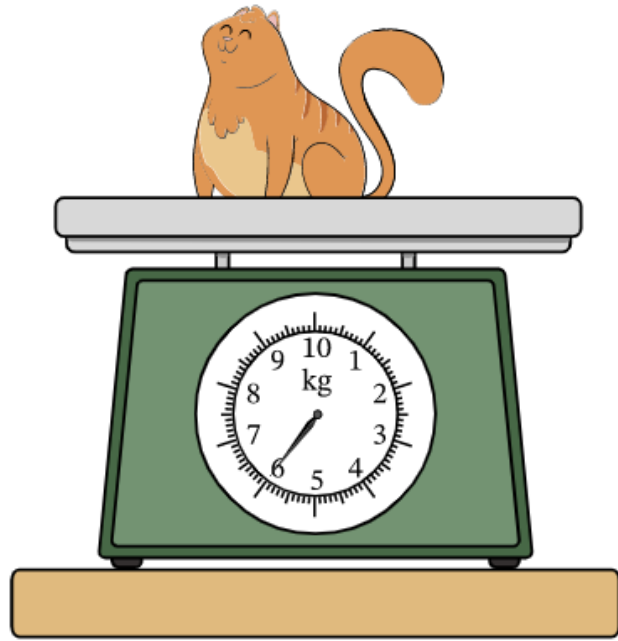
- Look and learn
- ◆ **Capacity:** the amount a container can hold.
 - ◆ **Litre:** a unit of capacity or liquid volume.
 - ◆ **Millilitre:** a unit of capacity or liquid volume, one thousandth of a litre.
 - ◆ **Mass:** quantity of matter in an object.
 - ◆ **Gram:** a unit of mass.
 - ◆ **Kilogram:** a unit of mass, one thousand grams.



$$1228 - 1214 = 14 \text{ kg}$$

$$14 \text{ kg} * 1000 = 14000 \text{ g}$$

$$14000 / 700 = 20 \text{ litres}$$



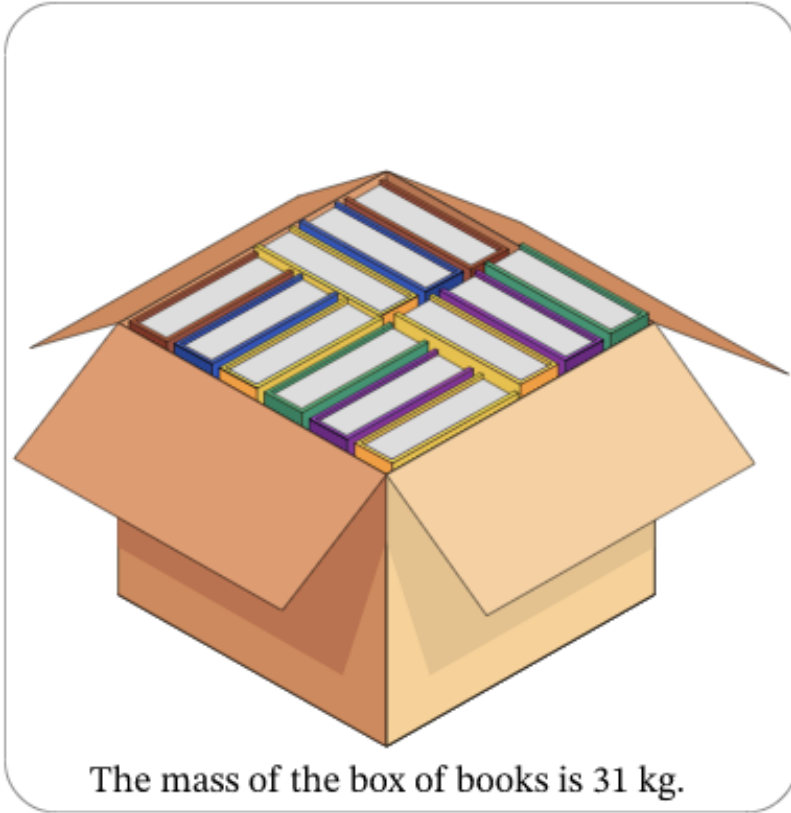
► Which is lighter?

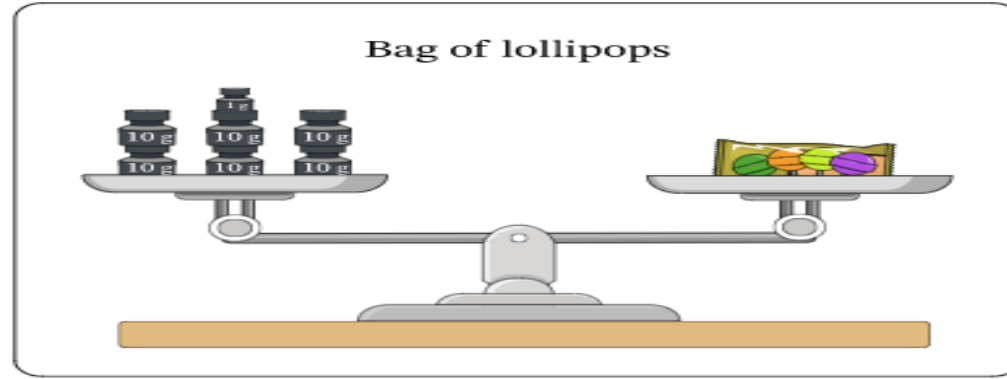
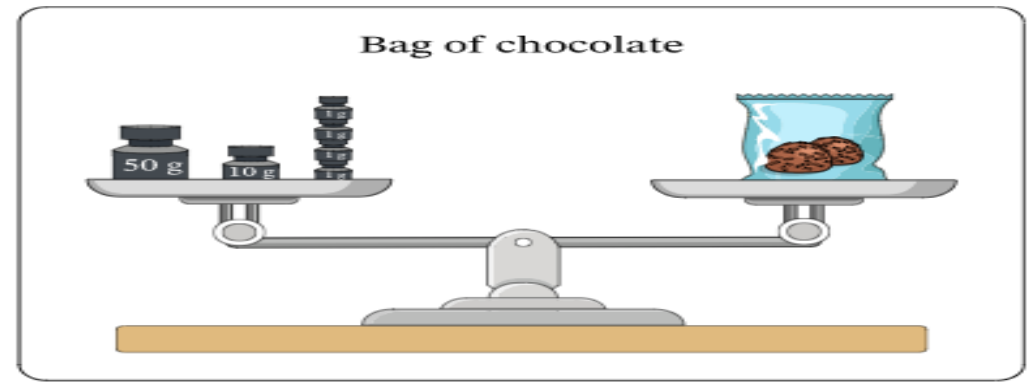
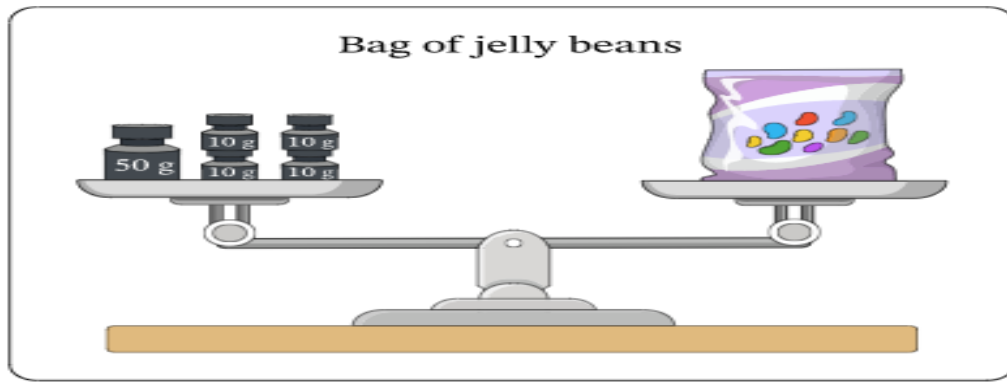
A The dog

B The cat

► How many kilograms lighter is it?

Q2: Fill in the blank: The mass of the box of books is _____ kg heavier than the mass of the box of toys.





Finish these sentences to describe the masses of the bags.

- ▶ The mass of the bag of jelly beans is _____ grams.
- ▶ The mass of the bag of chocolates is _____ grams.
- ▶ The bag of chocolates is _____ grams heavier than the bag of lollipops.
- ▶ The bag of _____ is the heaviest.

- A lollipops
- B jelly beans
- C chocolates