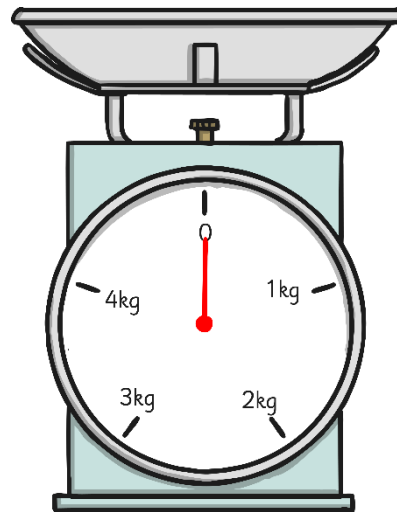
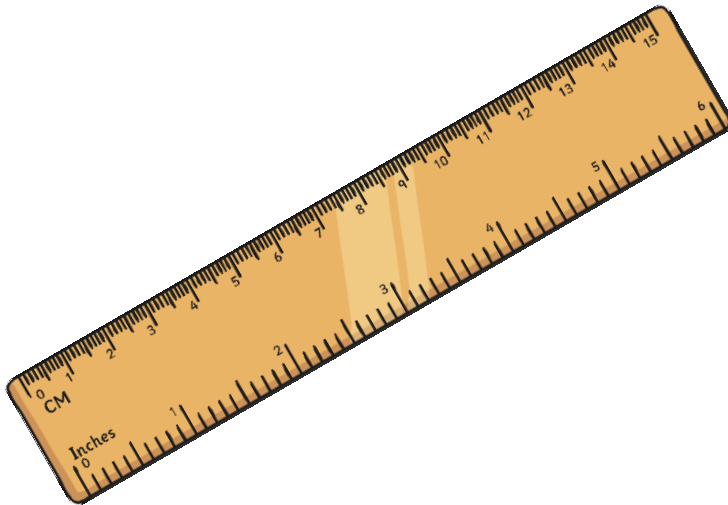


Reading scales

Where would you see a scale?

How many different places can you think of?

How many different types can you think of?



Did You Think of All These?



Photo courtesy of (@flickr.com) - granted under creative commons licence - janitors

speedometer



Photo courtesy of (@flickr.com) - granted under creative commons licence - ruthanddave

measuring jug



Photo courtesy of (@flickr.com) - granted under creative commons licence - 48625620@N00

weighing scale



Photo courtesy of (@flickr.com) - granted under creative commons licence - iliahi

30cm ruler



Photo courtesy of (@flickr.com) - granted under creative commons licence - victor

metre stick



Photo courtesy of (@flickr.com) - granted under creative commons licence - wiscience

thermometer



Photo courtesy of (@flickr.com) - granted under creative commons licence - dptr

bathroom scale



Photo courtesy of (@flickr.com) - granted under creative commons licence - moniqa

flood measurement

Scales Can Be in a Straight Line

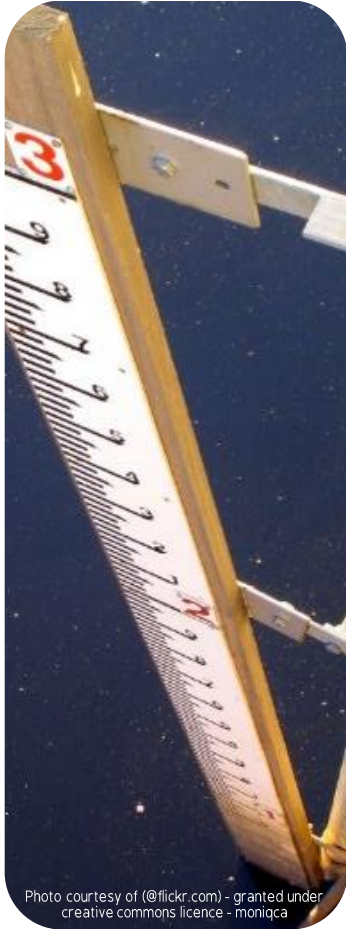


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...or Circular



A circular scale is just like a number line that has been curved round.

There are **1000 grams** in **1 kilogram**.

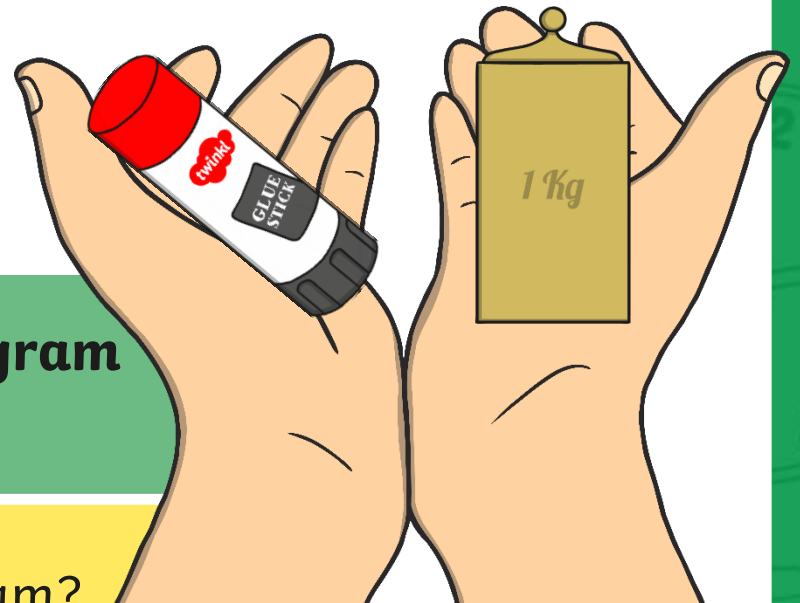
We can write **g** for gram.

We can write **kg** for kilogram.

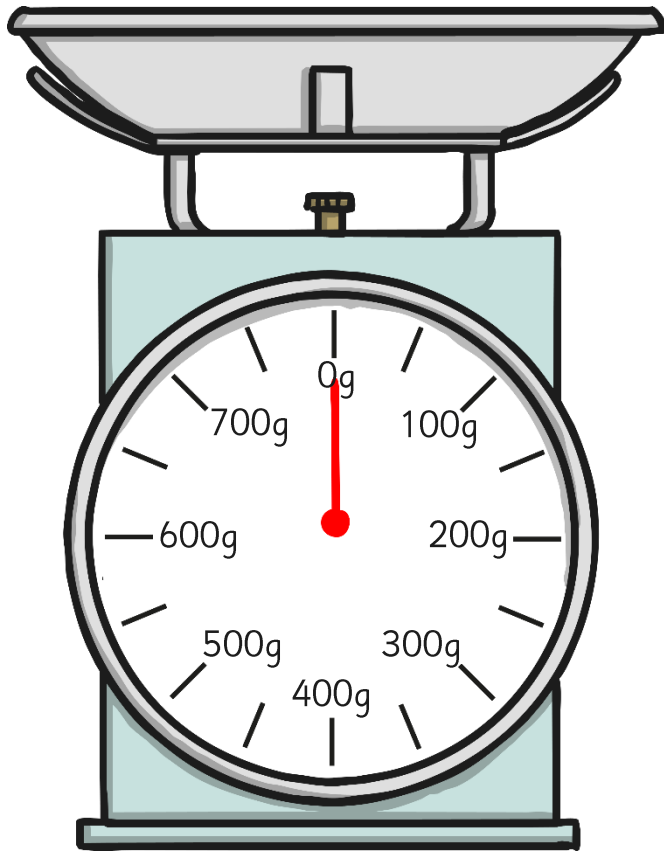
$$1000\text{g} = 1\text{kg}$$

If an object is lighter than 1 kilogram
we measure it using **grams**.

What objects are heavier than a kilogram?
What objects are lighter than a kilogram?



Today will be using scales to measure mass in grams - g



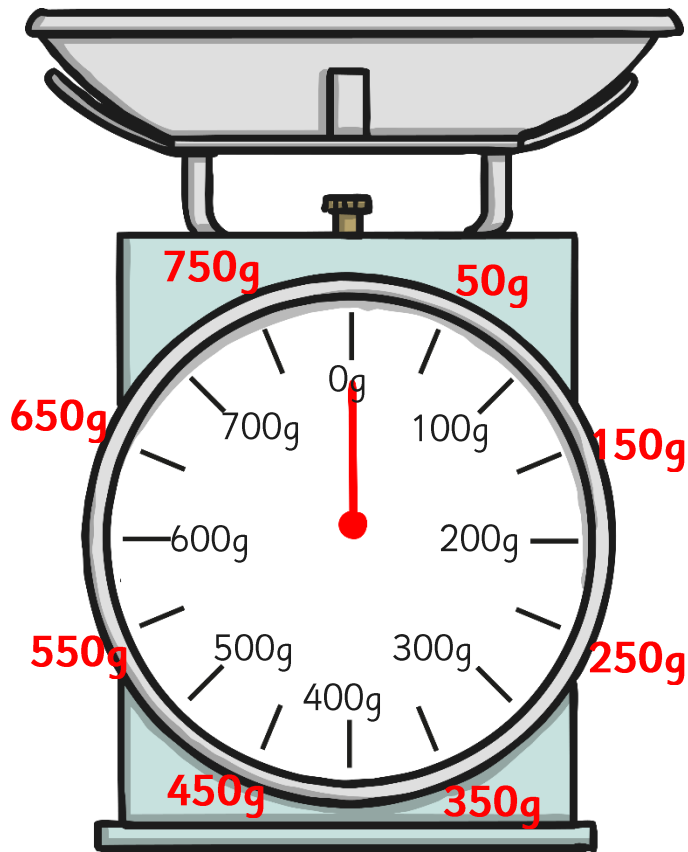
First find the 0.

Can you count around the scale in 100s?

Not all the lines on the scales have numbers.

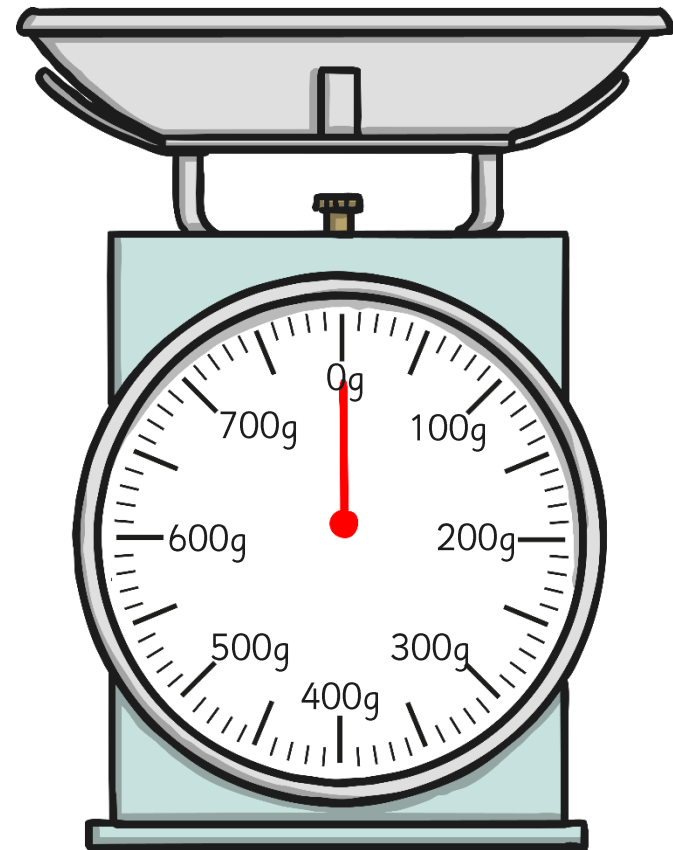
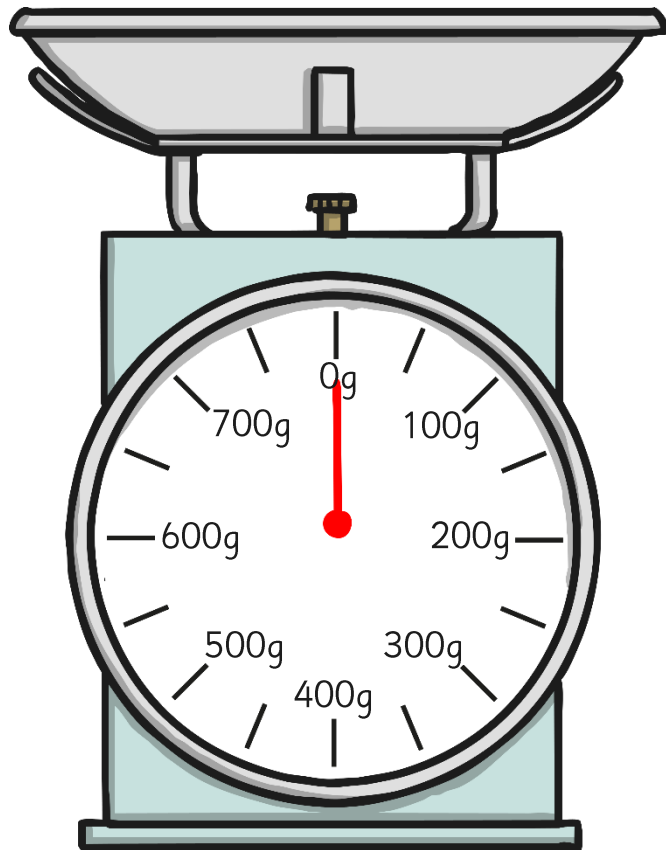
What number would be halfway between 0 and 100?

We will be using scales to measure mass



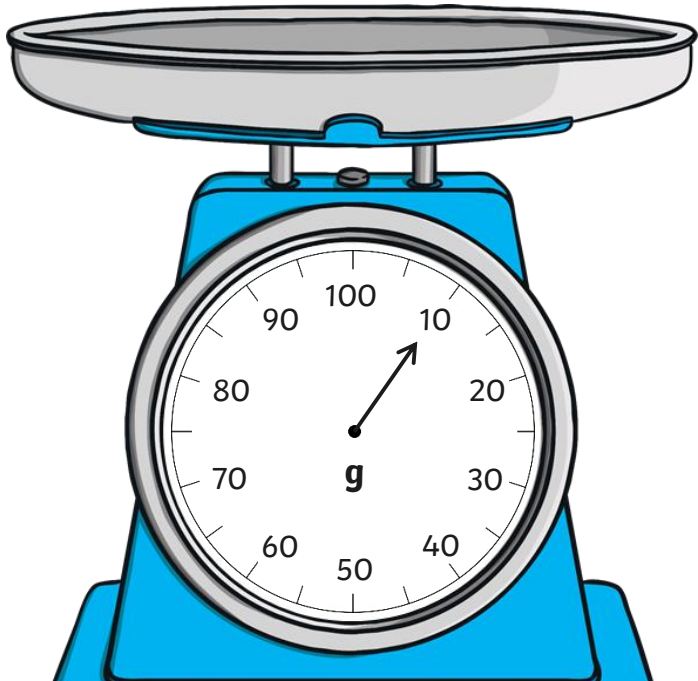
50g

What is the same and what is different about these scales?



Reading Scales

Here are some kitchen scales. They measure grams.



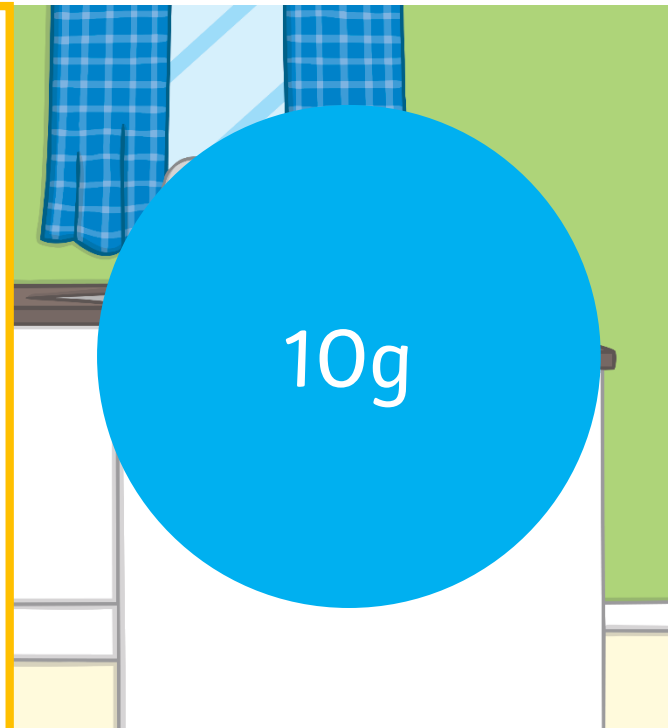
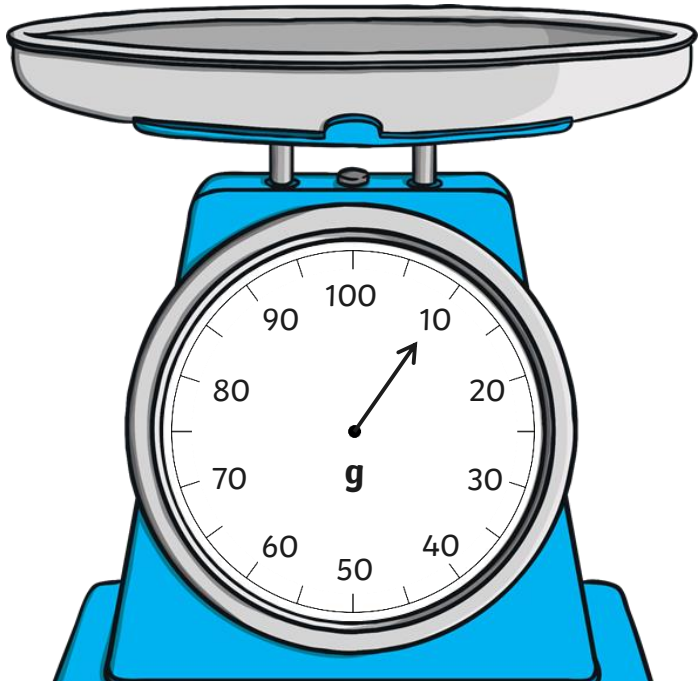
Can you
count in 5s
along the
scale?

?

Where is the arrow pointing to on the scale?
How many grams are the scales measuring?

Reading Scales

Here are some kitchen scales. They measure grams.

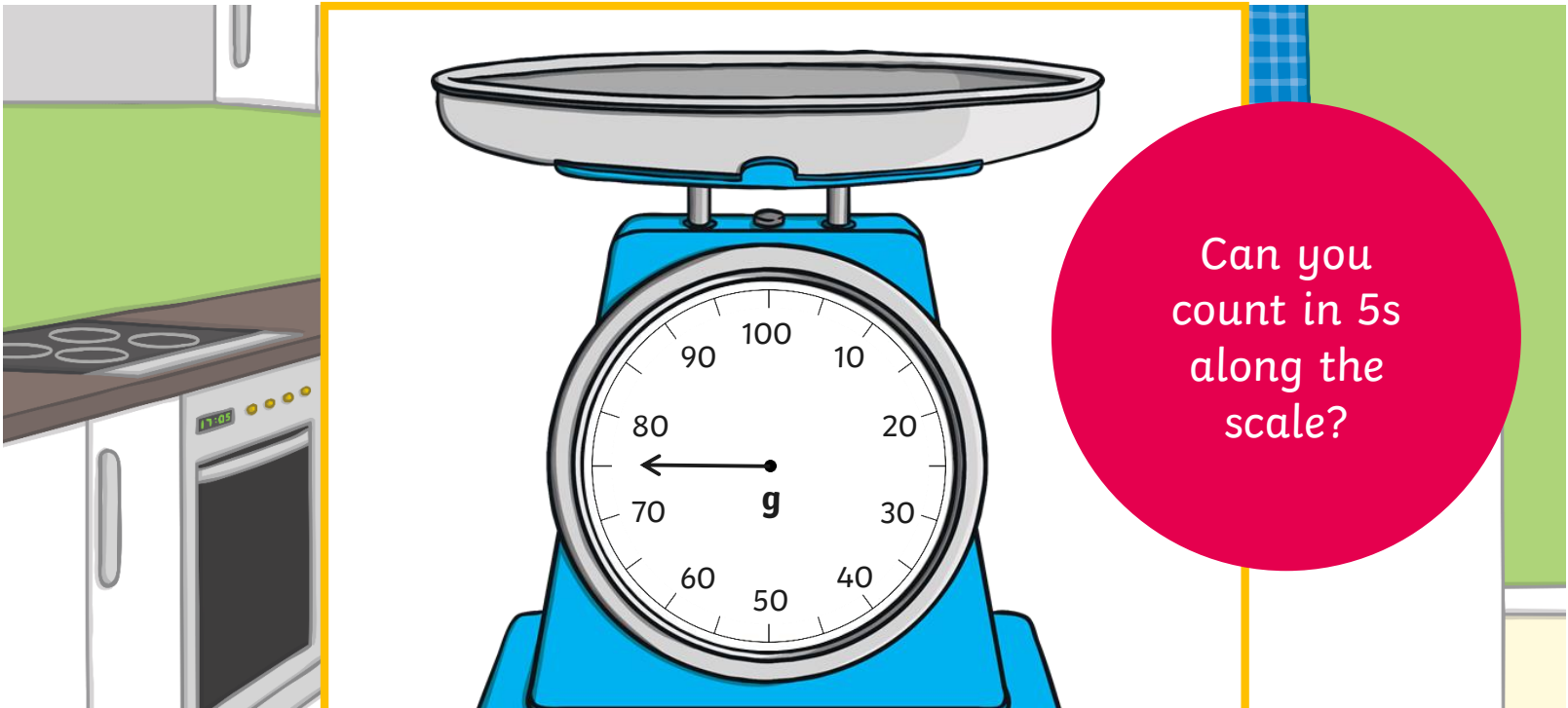


?

Where is the arrow pointing to on the scale?
How many grams are the scales measuring?

Reading Scales

Here are some kitchen scales. They measure grams.

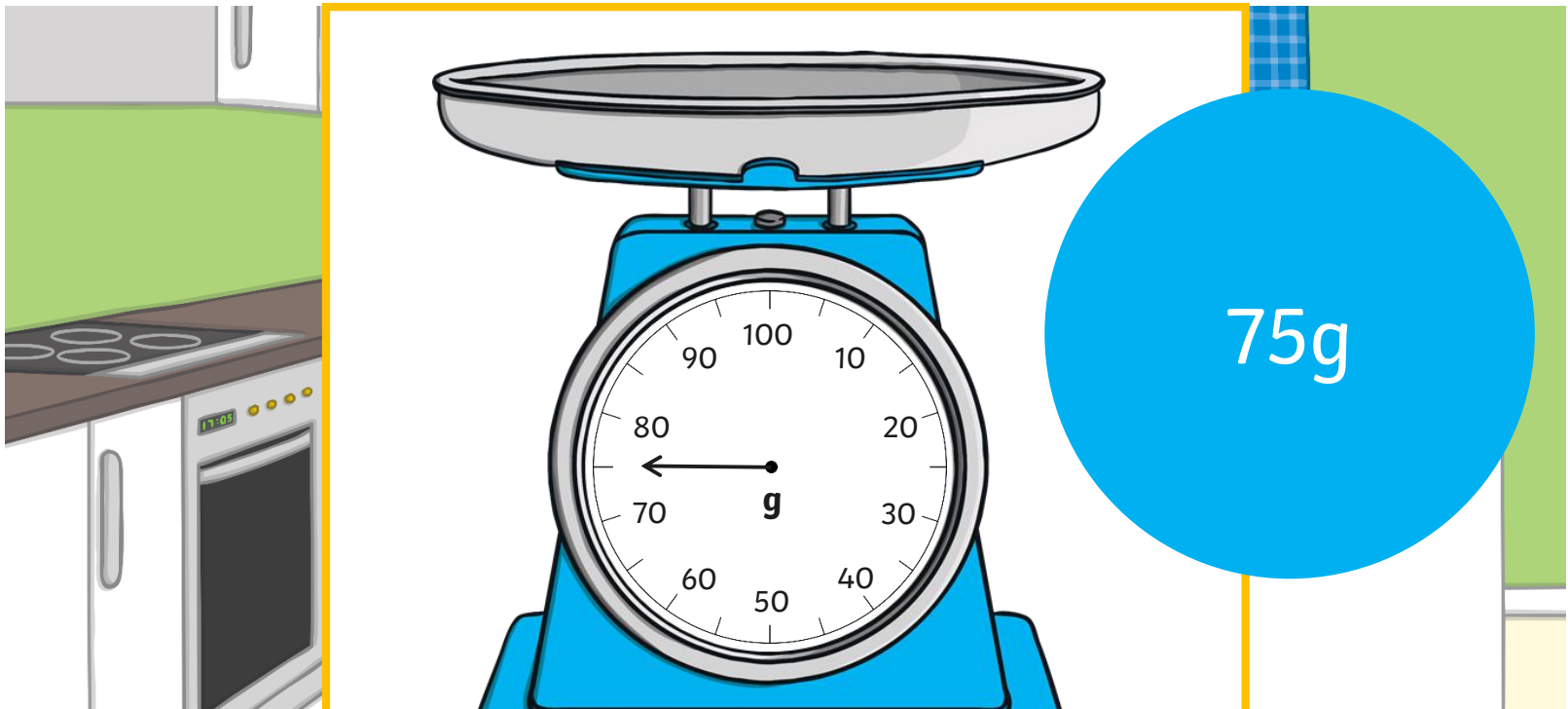


?

Where is the arrow pointing to on the scale?
How many grams are the scales measuring?

Reading Scales

Here are some kitchen scales. They measure grams.

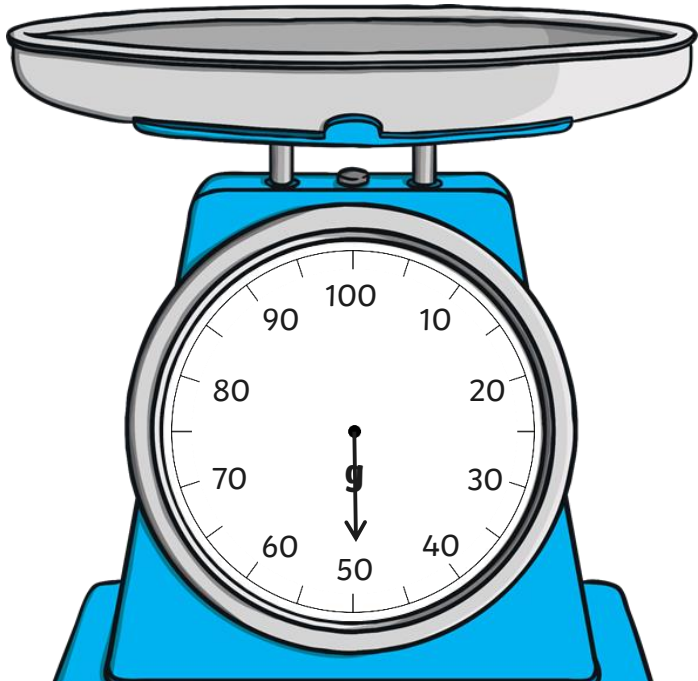


?

Where is the arrow pointing to on the scale?
How many grams are the scales measuring?

Reading Scales

Here are some kitchen scales. They measure grams.

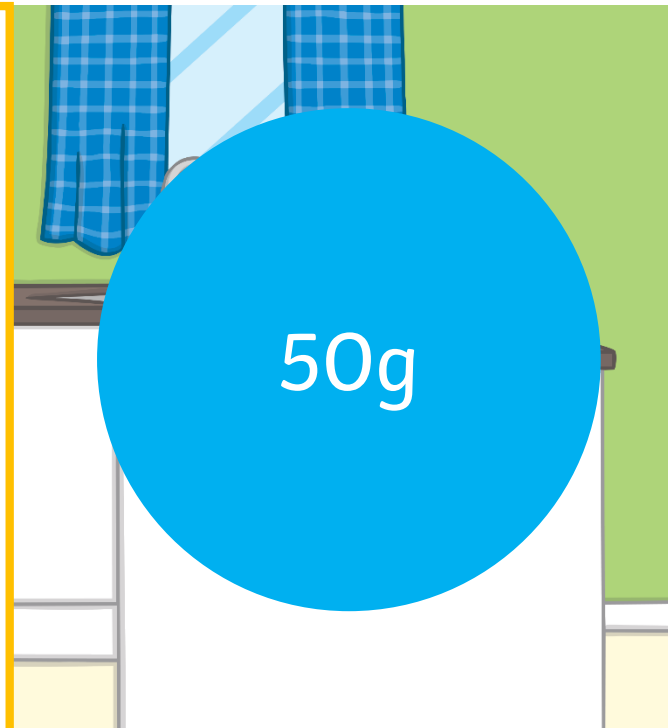
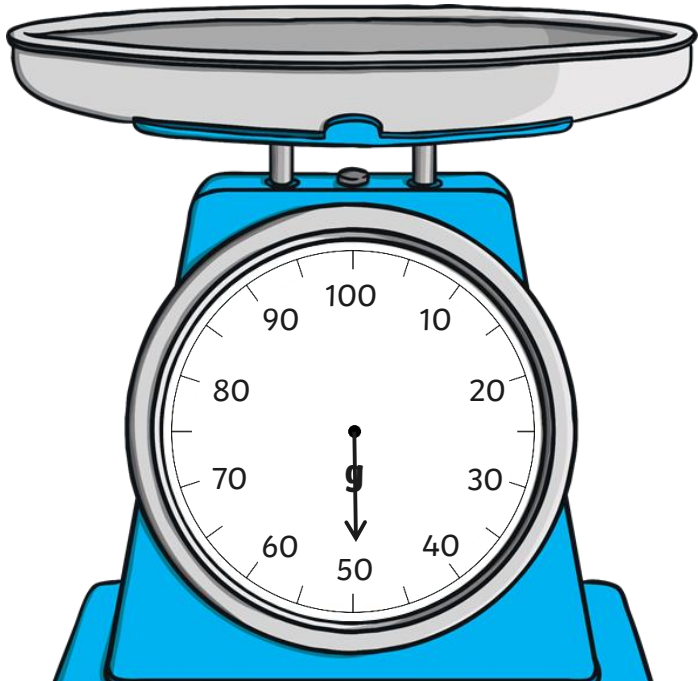


?

Where is the arrow pointing to on the scale?
How many grams are the scales measuring?

Reading Scales

Here are some kitchen scales. They measure grams.

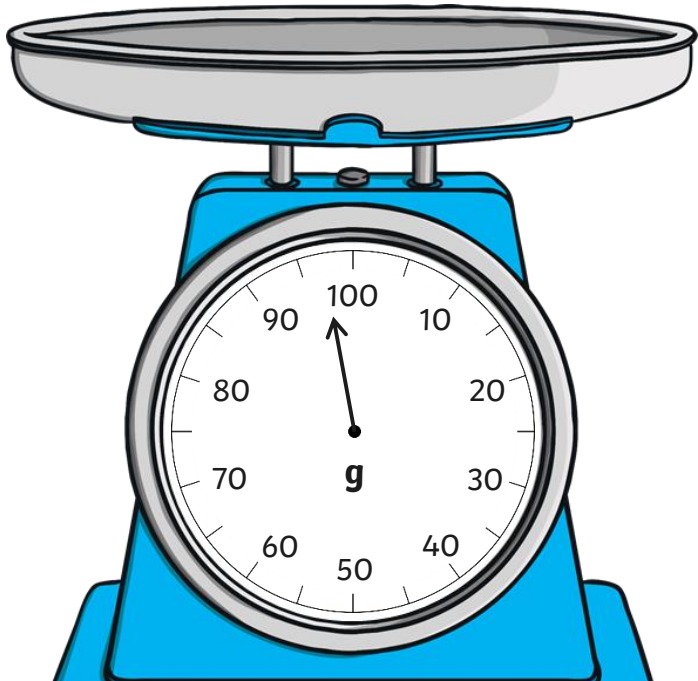


?

Where is the arrow pointing to on the scale?
How many grams are the scales measuring?

Reading Scales

Here are some kitchen scales. They measure grams.



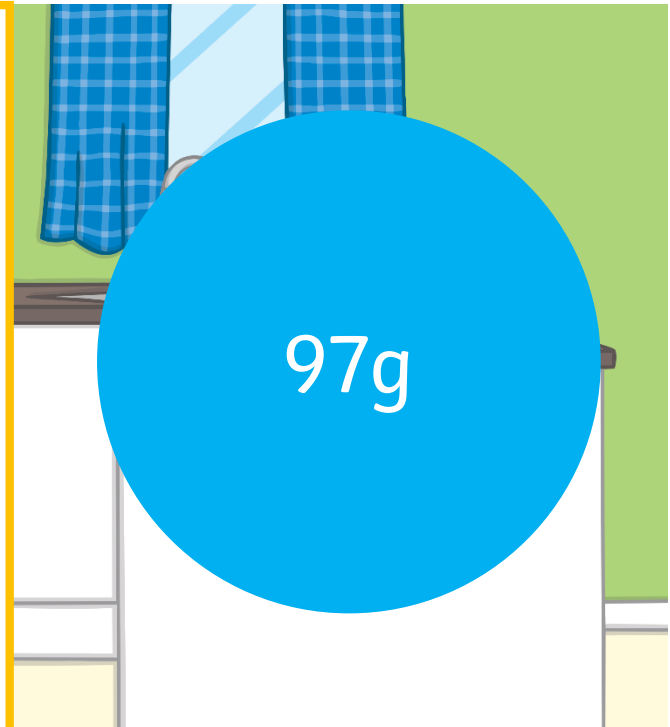
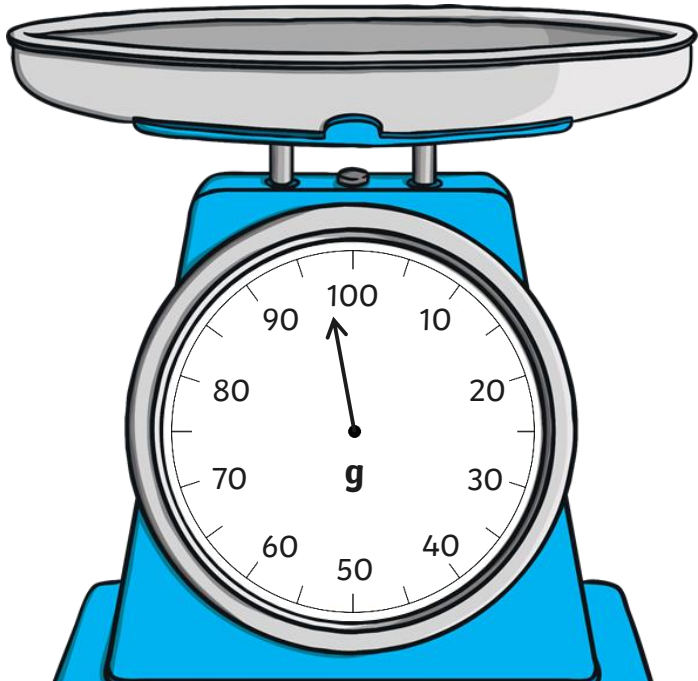
The arrow has just moved past 95g. Is it closer to 95g or 1000g?

?

Where is the arrow pointing to on the scale?
How many grams are the scales measuring?

Reading Scales

Here are some kitchen scales. They measure grams.

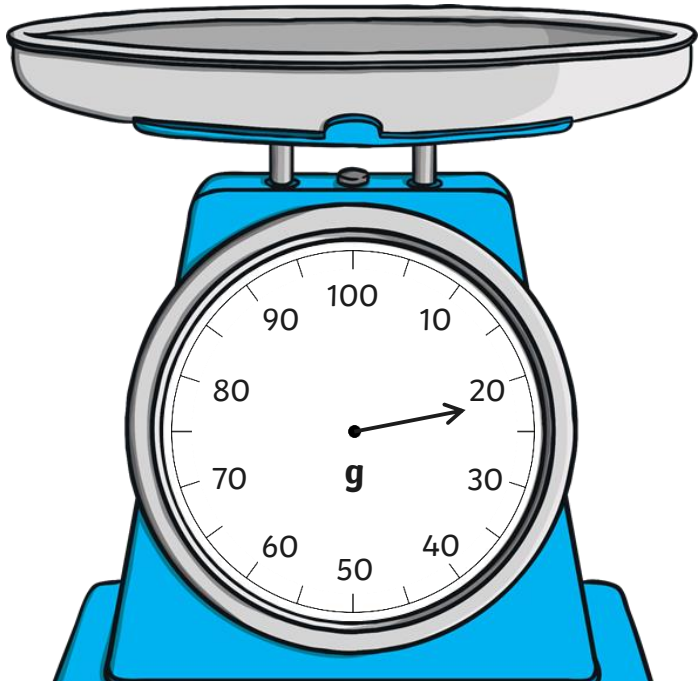


?

Where is the arrow pointing to on the scale?
How many grams are the scales measuring?

Reading Scales

Here are some kitchen scales. They measure grams.



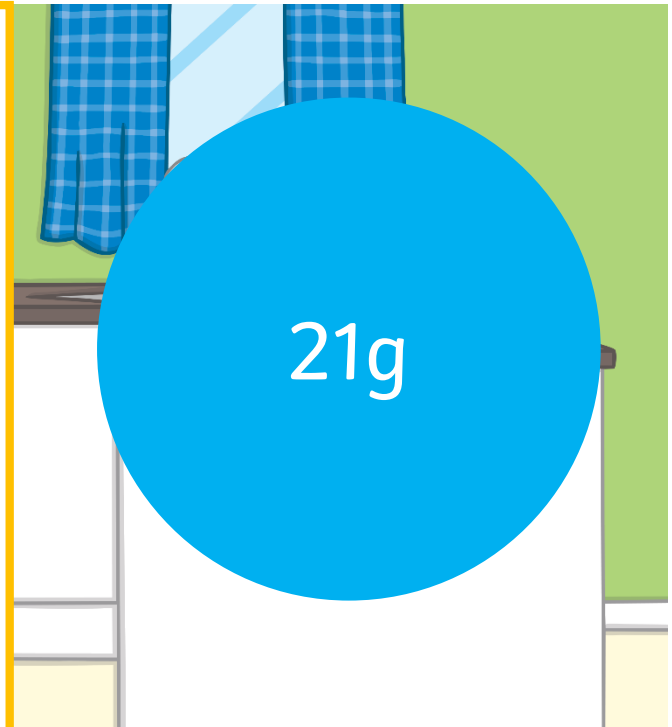
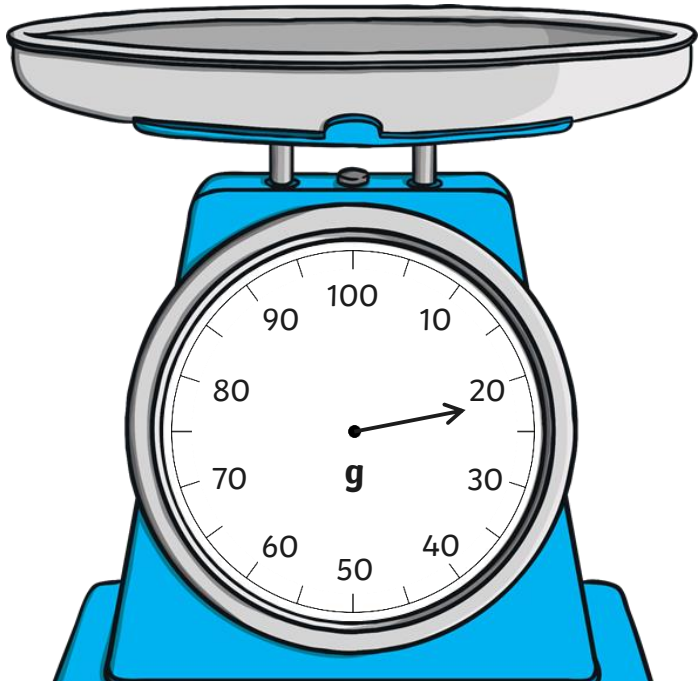
The dial has just moved past 20g. Is it closer to 20g or 25g?

?

Where is the arrow pointing to on the scale?
How many grams are the scales measuring?

Reading Scales

Here are some kitchen scales. They measure grams.



?

Where is the arrow pointing to on the scale?
How many grams are the scales measuring?