

Let's measure!

Today we will be:

Comparing the mass of objects.

NEXT

Starter

Are you ready for a quick quiz?
Put your hand in the air if you are and your
hands on your head if you are not.



BACK



YES



NO

NEXT

Starter



Which of these do you think is heavier?
Put your hands on your head if you think it's the elephant and
your hand in the air if you think it's the mouse.



Elephant



Mouse

BACK

NEXT



Starter



Which of these do you think is heavier?



House



Plant



BACK

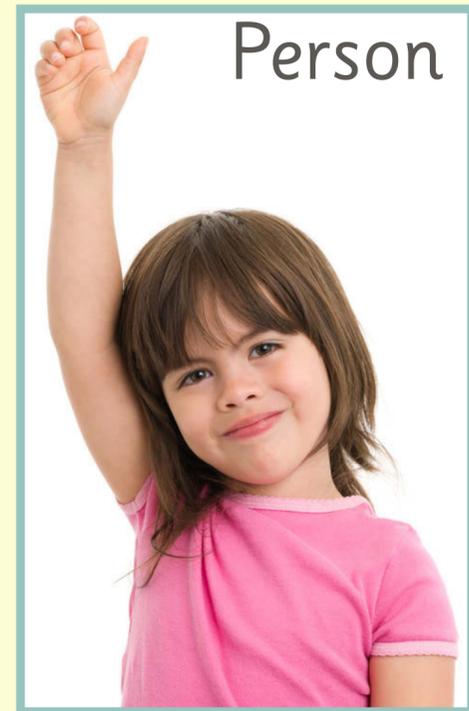
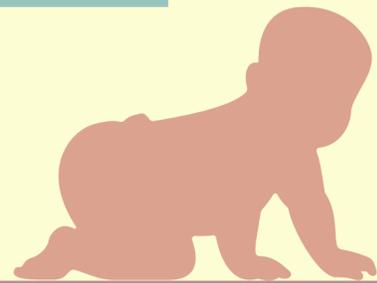
NEXT

Starter

Which of these
do you think is
heavier?



Baby



Person

BACK

NEXT

Starter

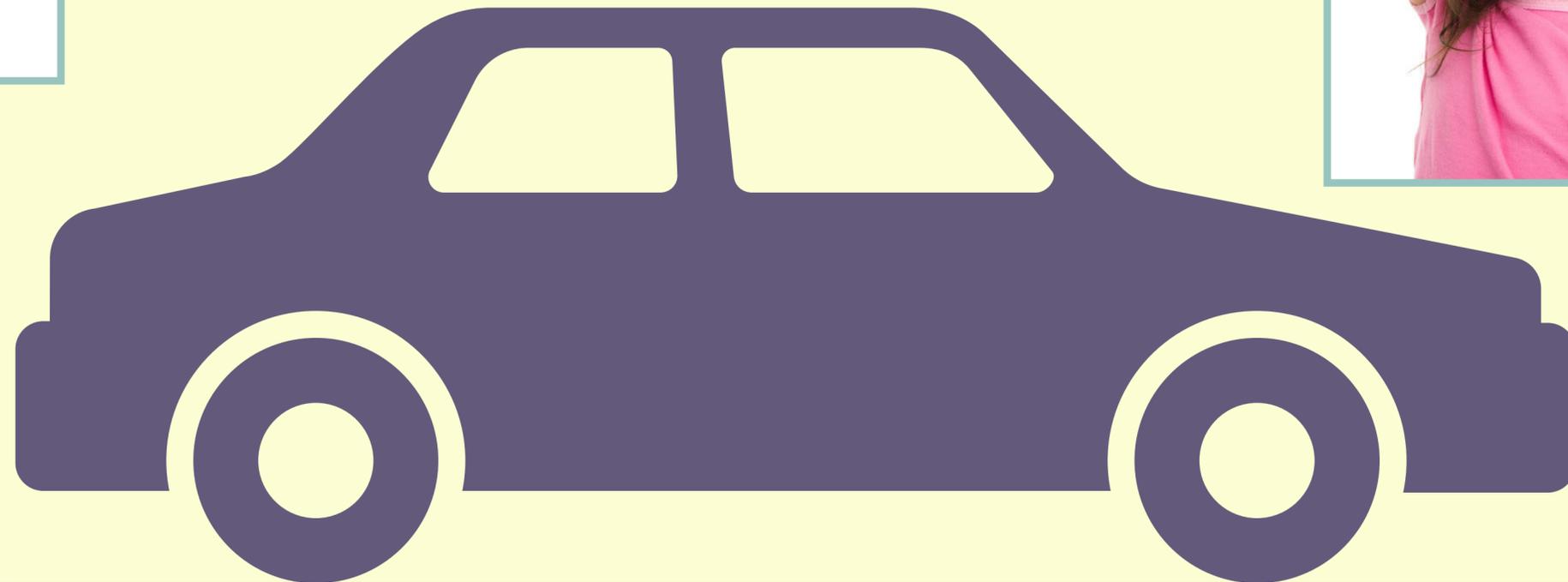
Which of these
do you think is
heavier?



Toy car



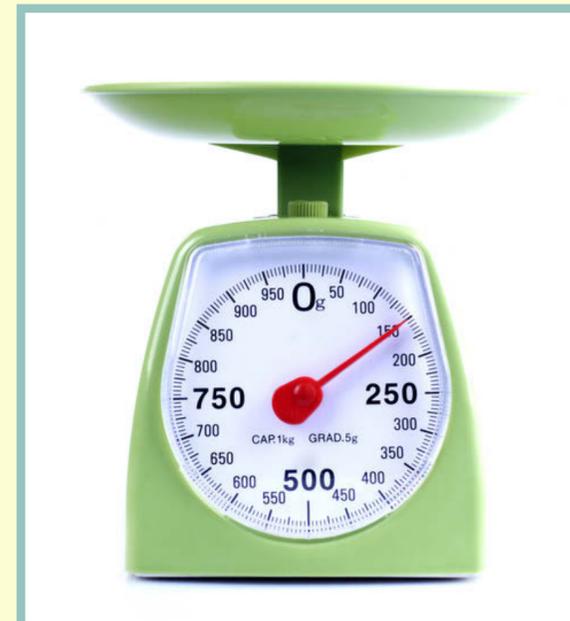
Car



BACK

NEXT

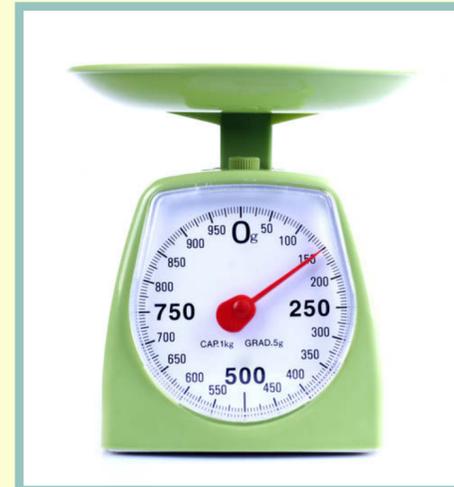
What are these? What are they used for?



BACK

NEXT

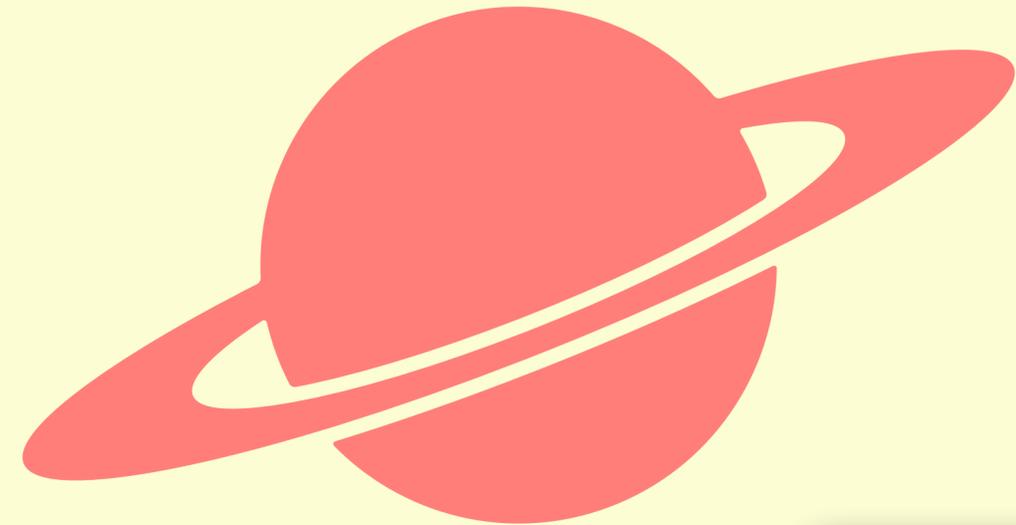
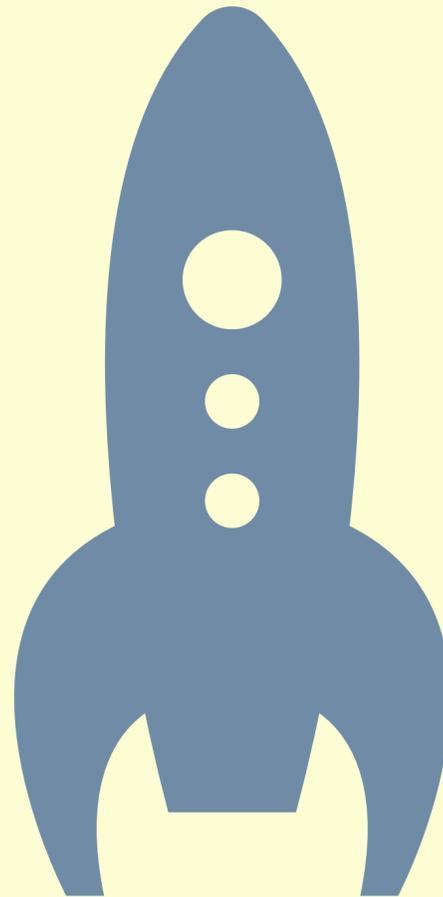
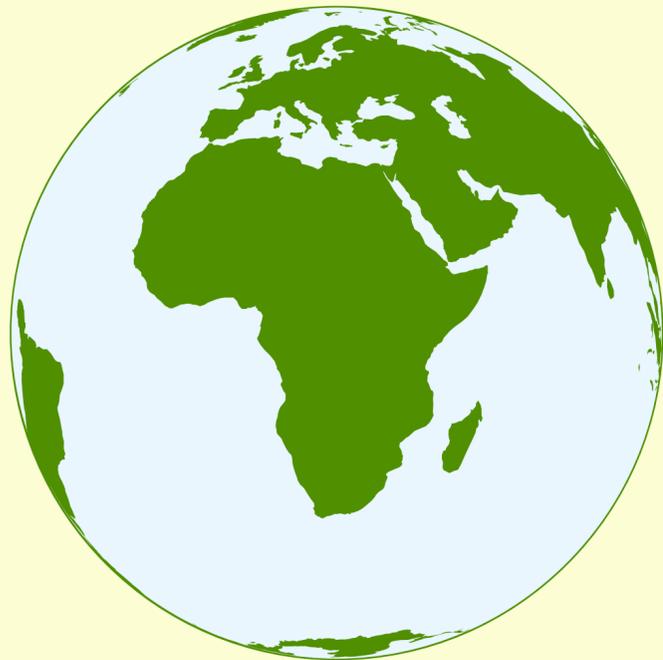
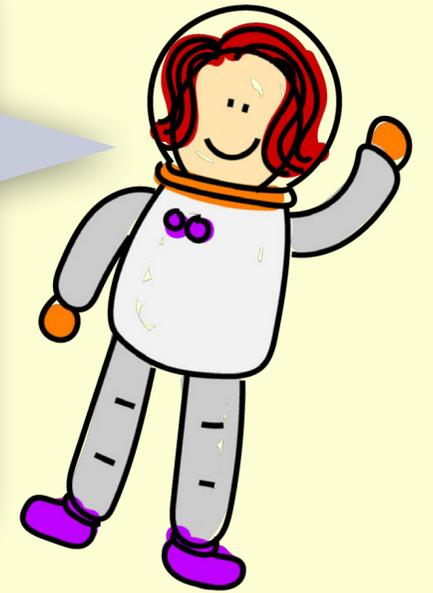
These are all different types of weighing scales. They can all be used to measure the mass of objects. When people talk about how much something weighs they are actually talking about the mass.



BACK

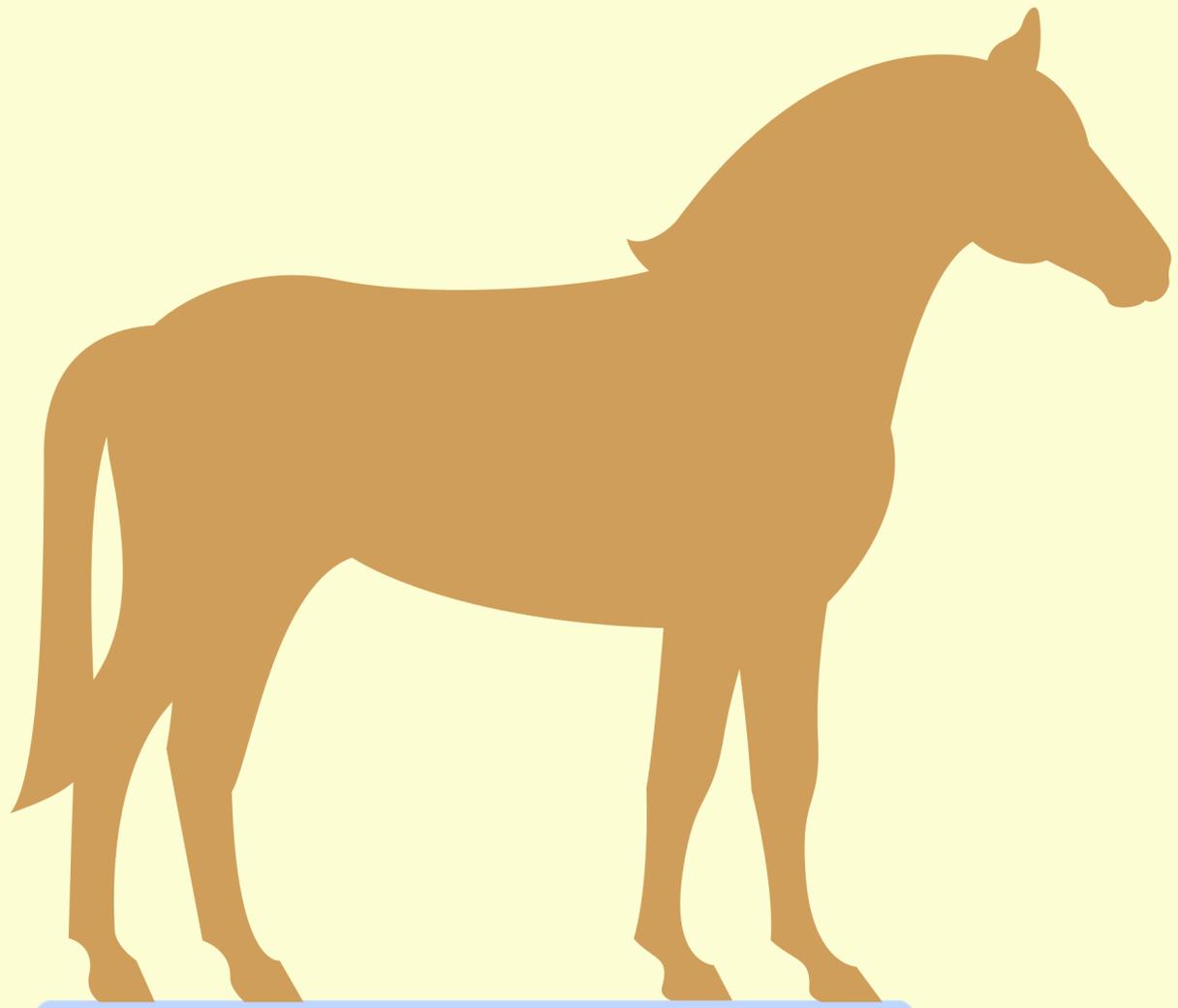
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On earth mass and weight are the same. A rocket would be very heavy on earth, but it would feel a lot lighter in space. Its weight changes in space, but its mass doesn't.

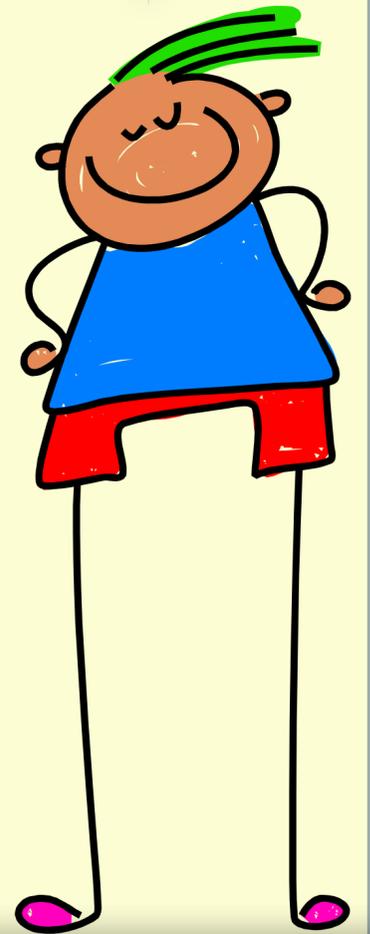


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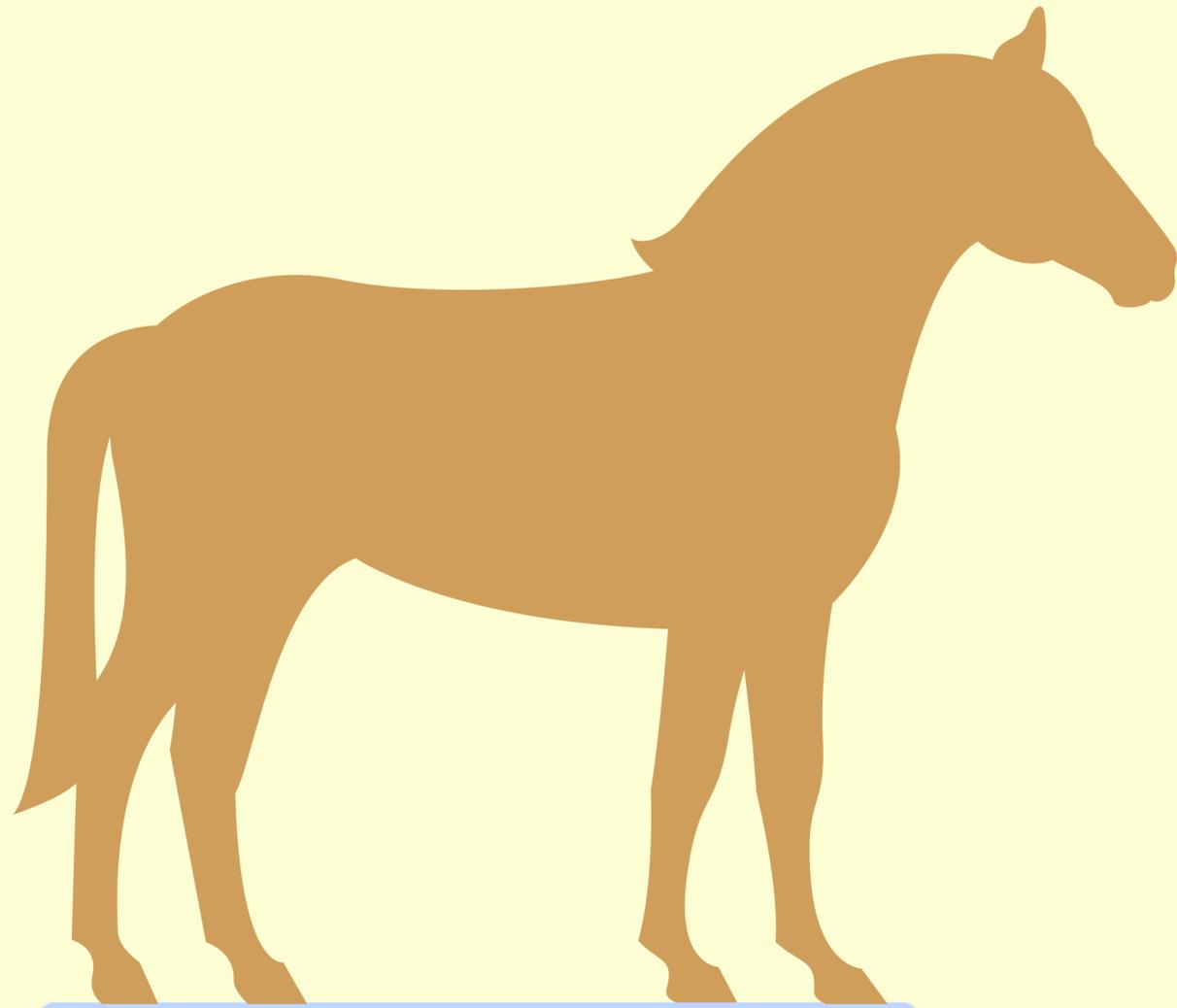


Which animal is heavier?

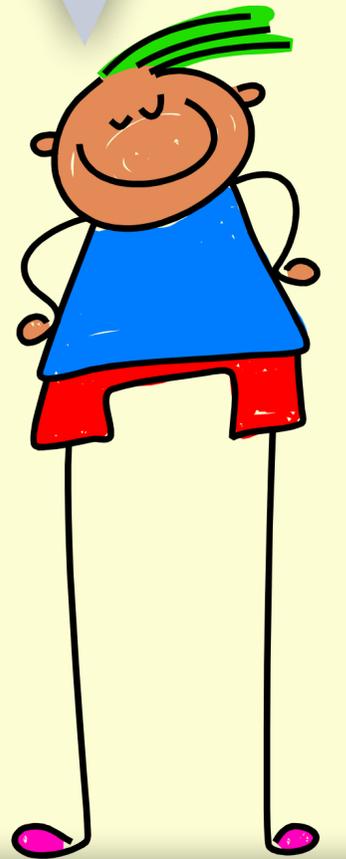


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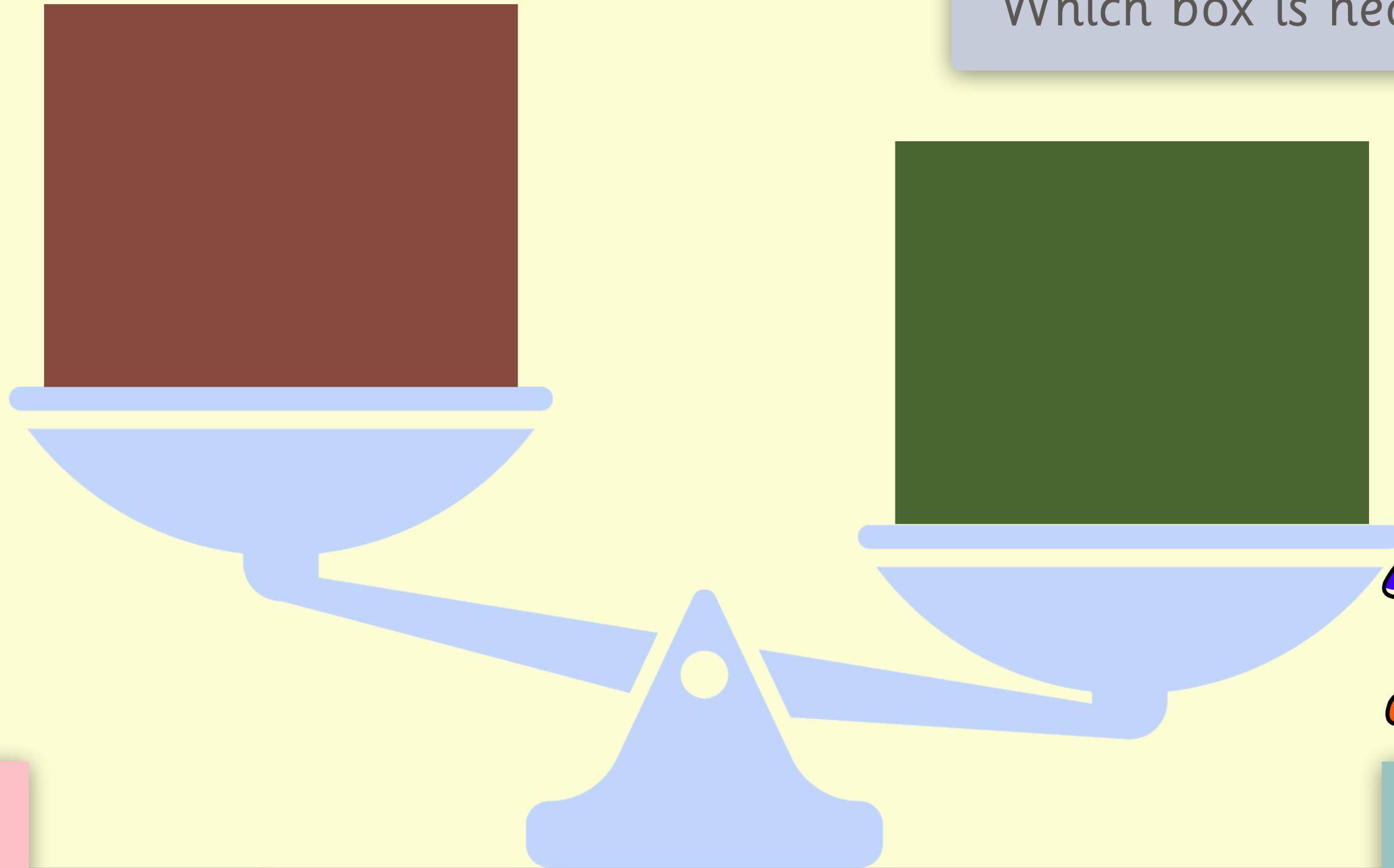
The horse is heavier. It has pushed its side of the scales down.



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NEXT

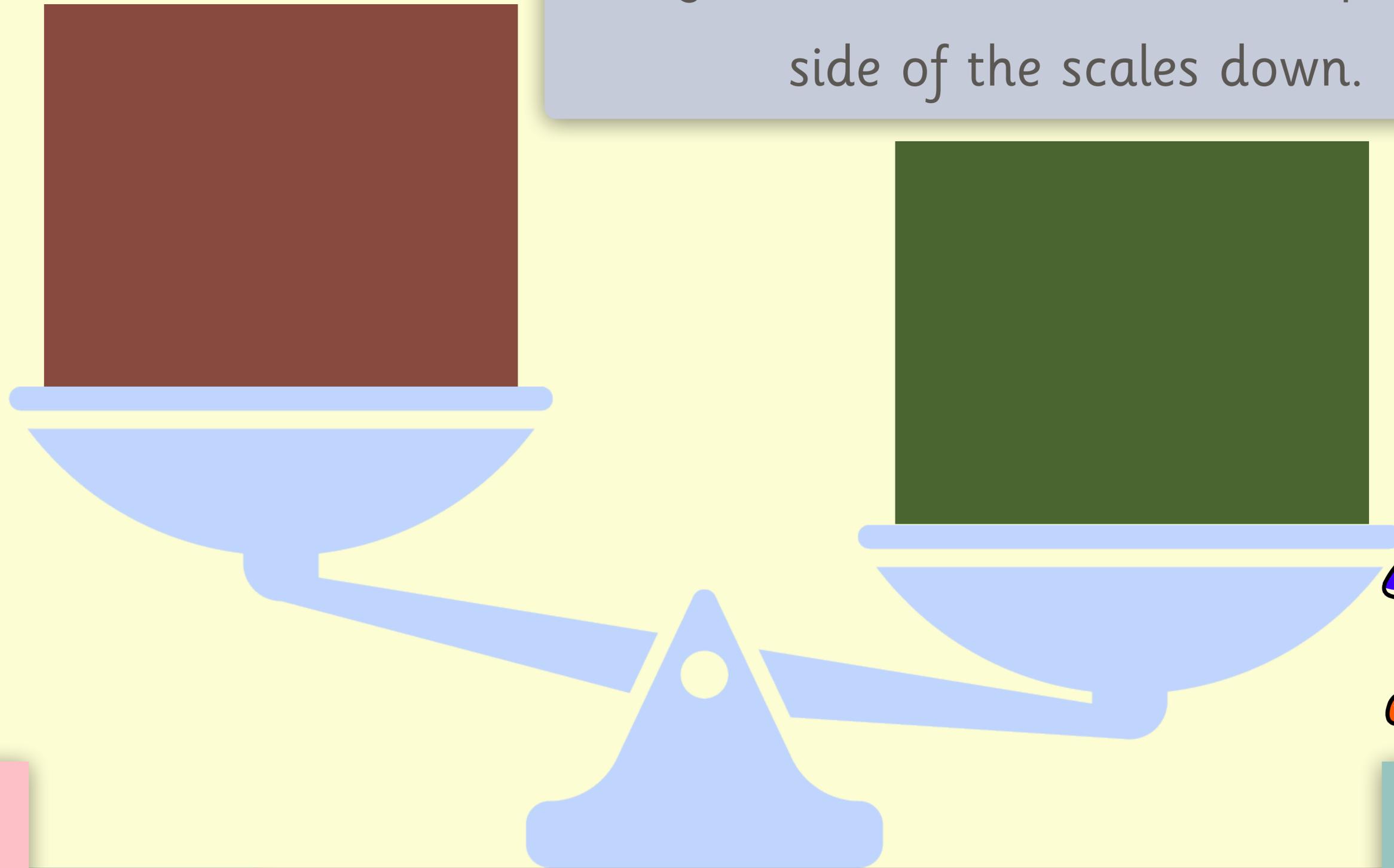
Which box is heavier?



BACK

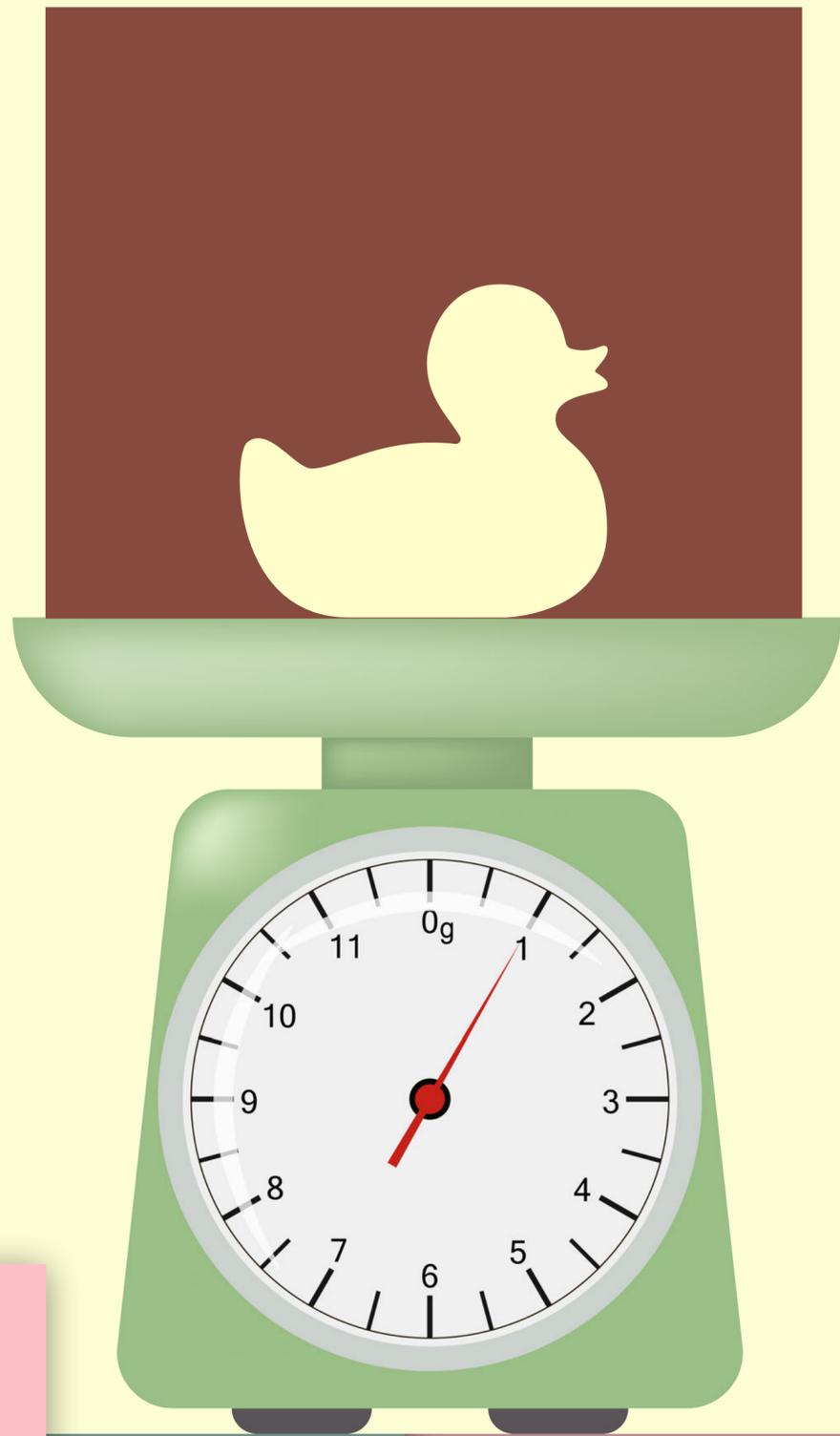
NEXT

The green box is heavier. It has pushed its side of the scales down.



BACK

NEXT

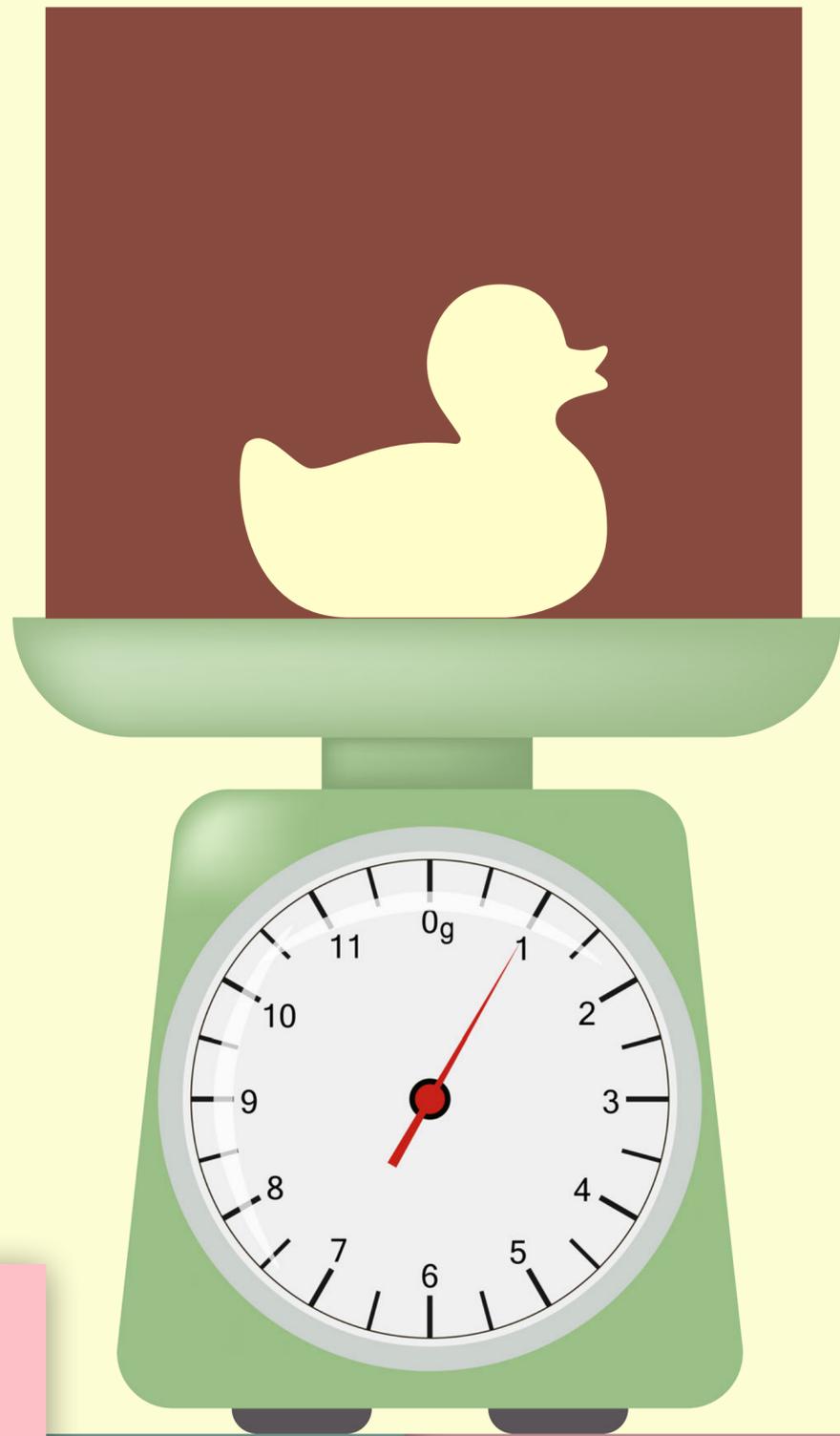


How much do each of these boxes weigh?



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NEXT

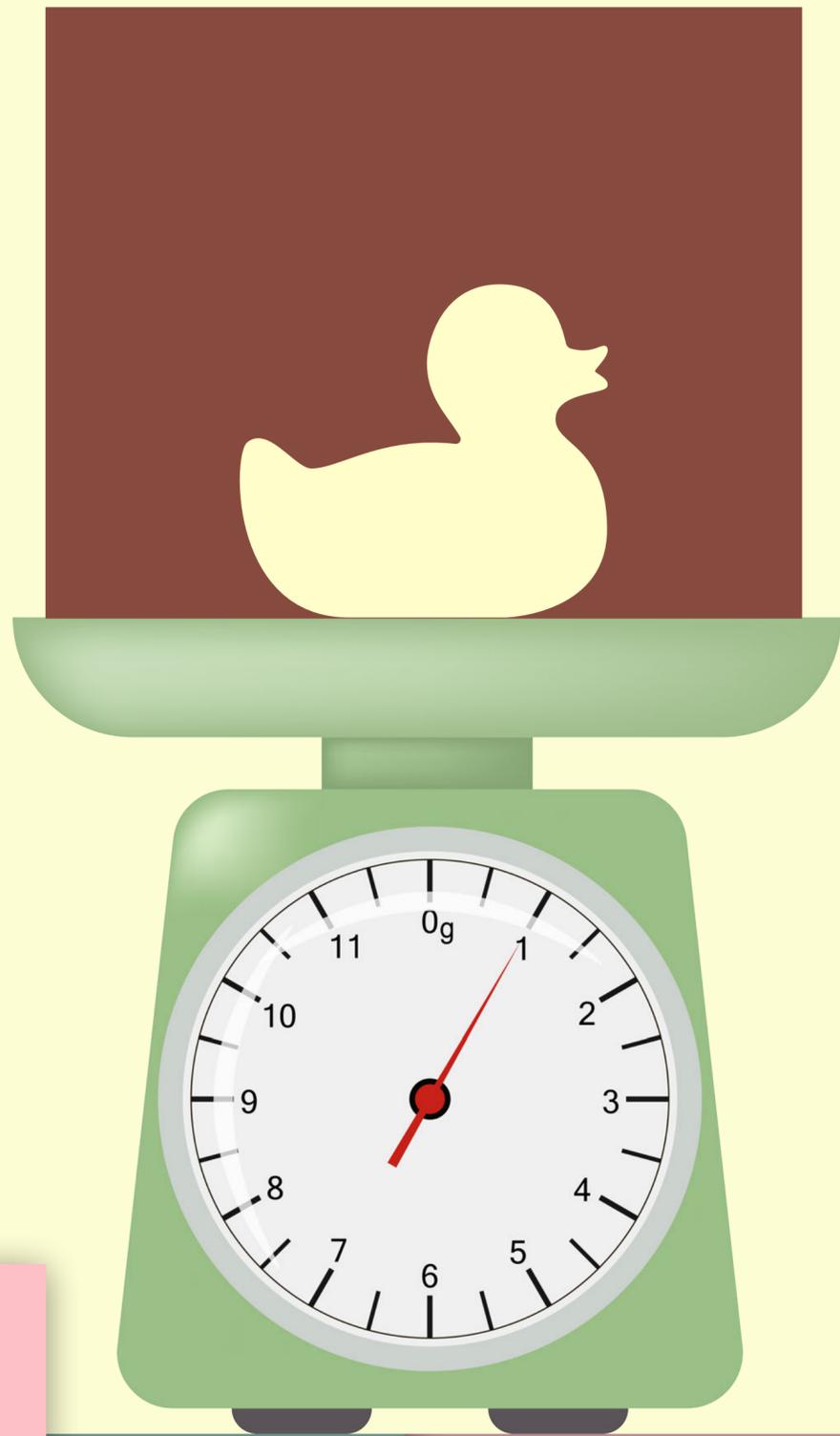


The box with the duck weighs 1g.
The box with the bear weighs 4g.
Which is heavier?



BACK

NEXT



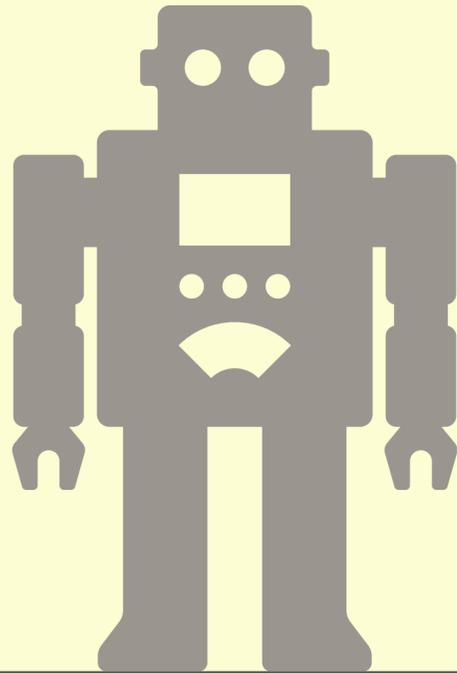
The bear is heavier than the duck. 4g is more than 1g.



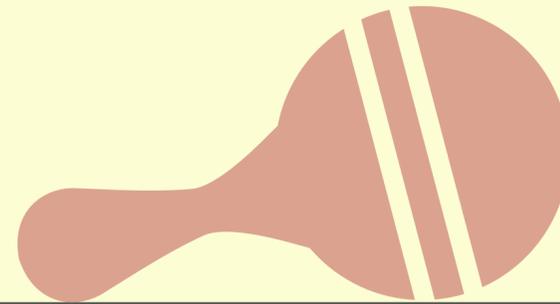
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NEXT

Which toy is heavier? How do you know?



50.0 g

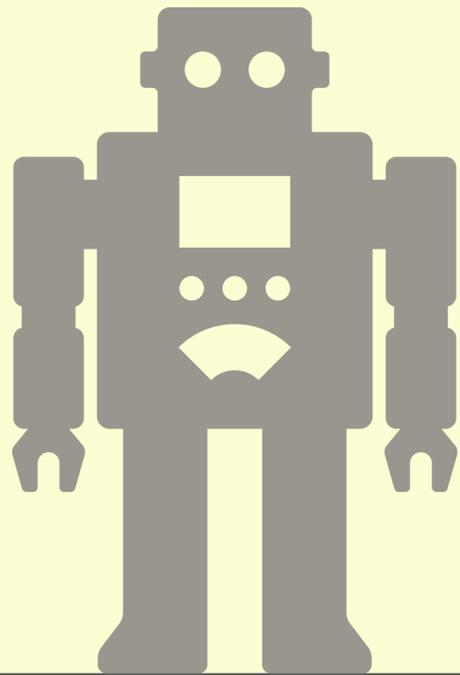


35.0 g

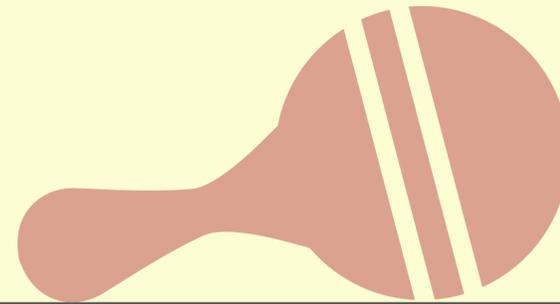
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NEXT

The robot is heavier. It weighs 50g. 50g is more than 35g.



50.0 g



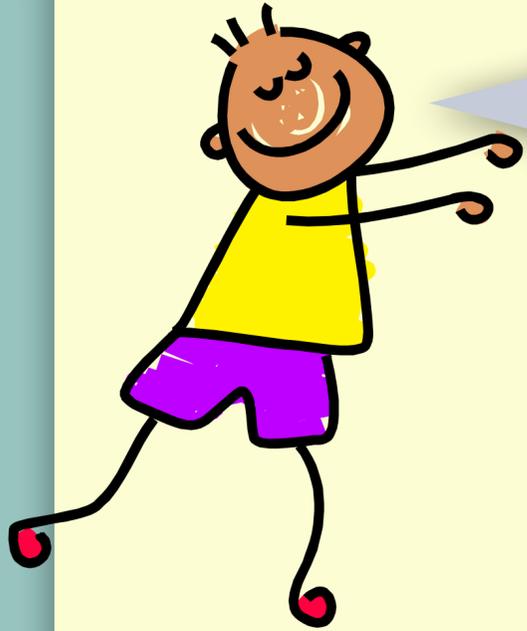
35.0 g

BACK

NEXT

Plenary

Balance scales cannot be used to work out the mass of an object because they don't have any numbers.



Is this true or false? Think, pair, share.



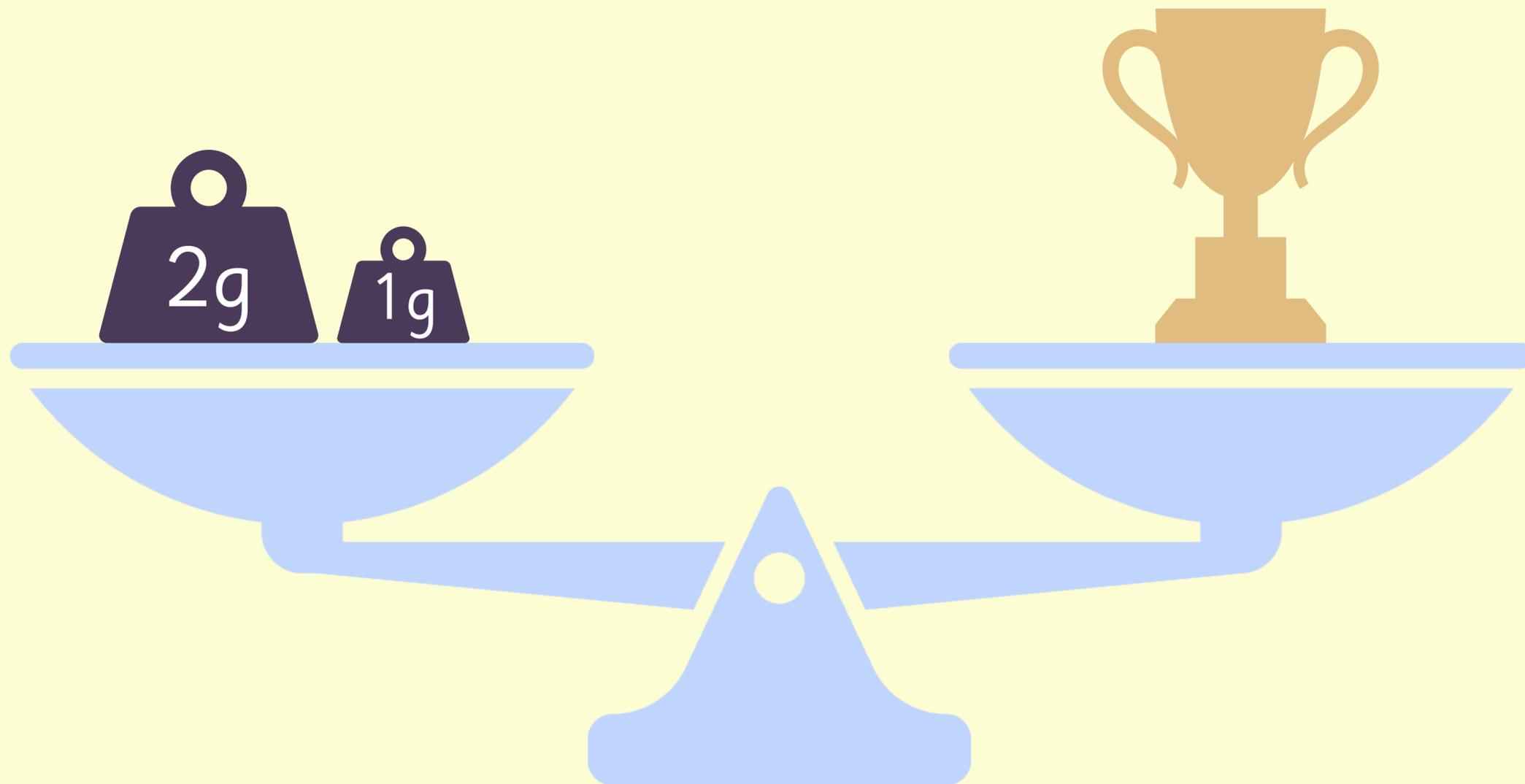
BACK

NEXT

Plenary



It is false. Weights can be used to balance the scales and work out the mass of an object.



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