

# Let's measure!

Today we will be:

Comparing the mass of objects.

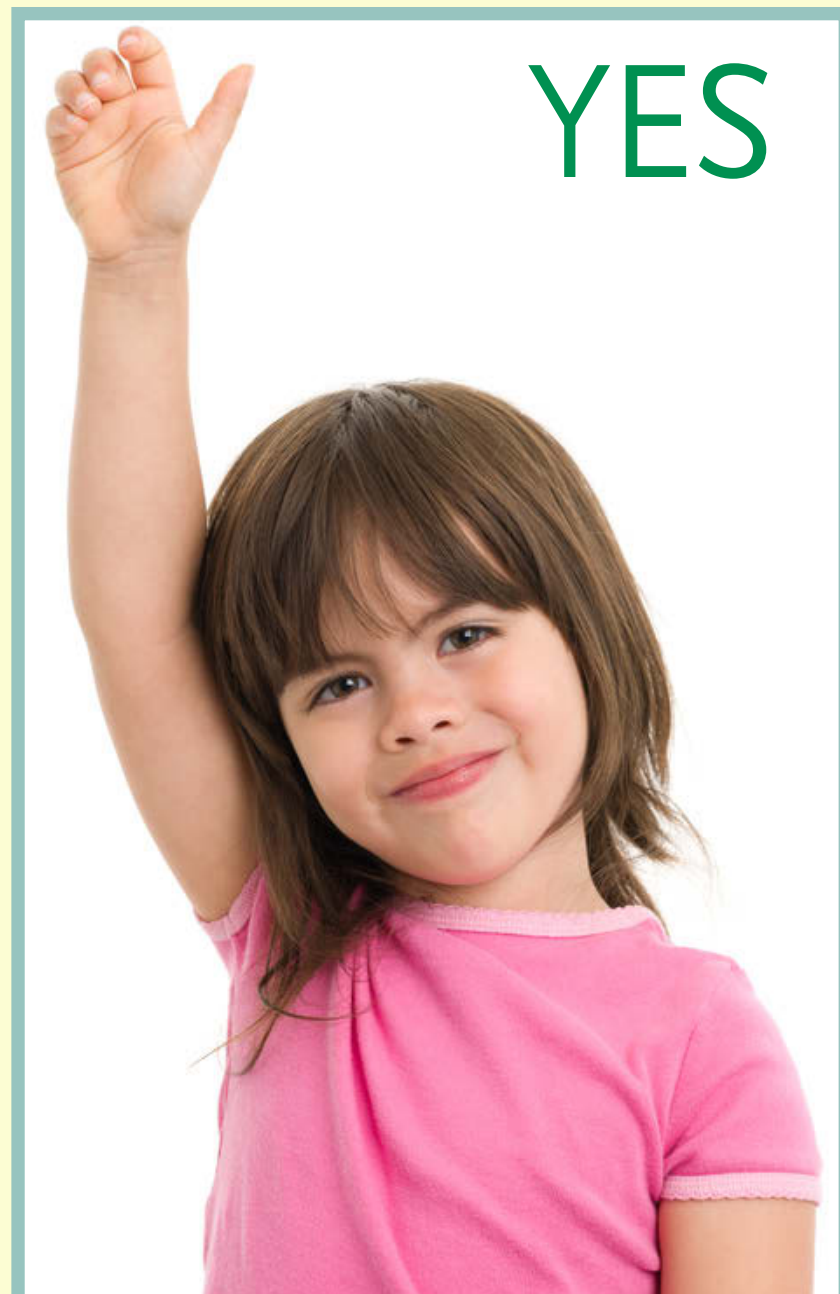
NEXT

# 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

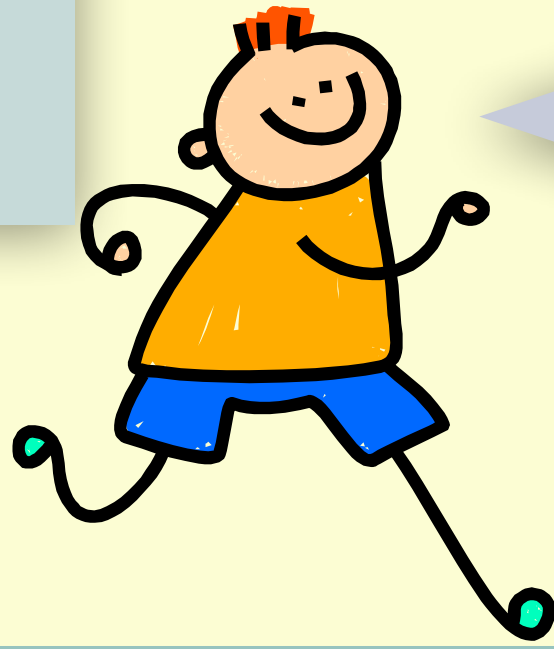


NO

NEXT



# Starter



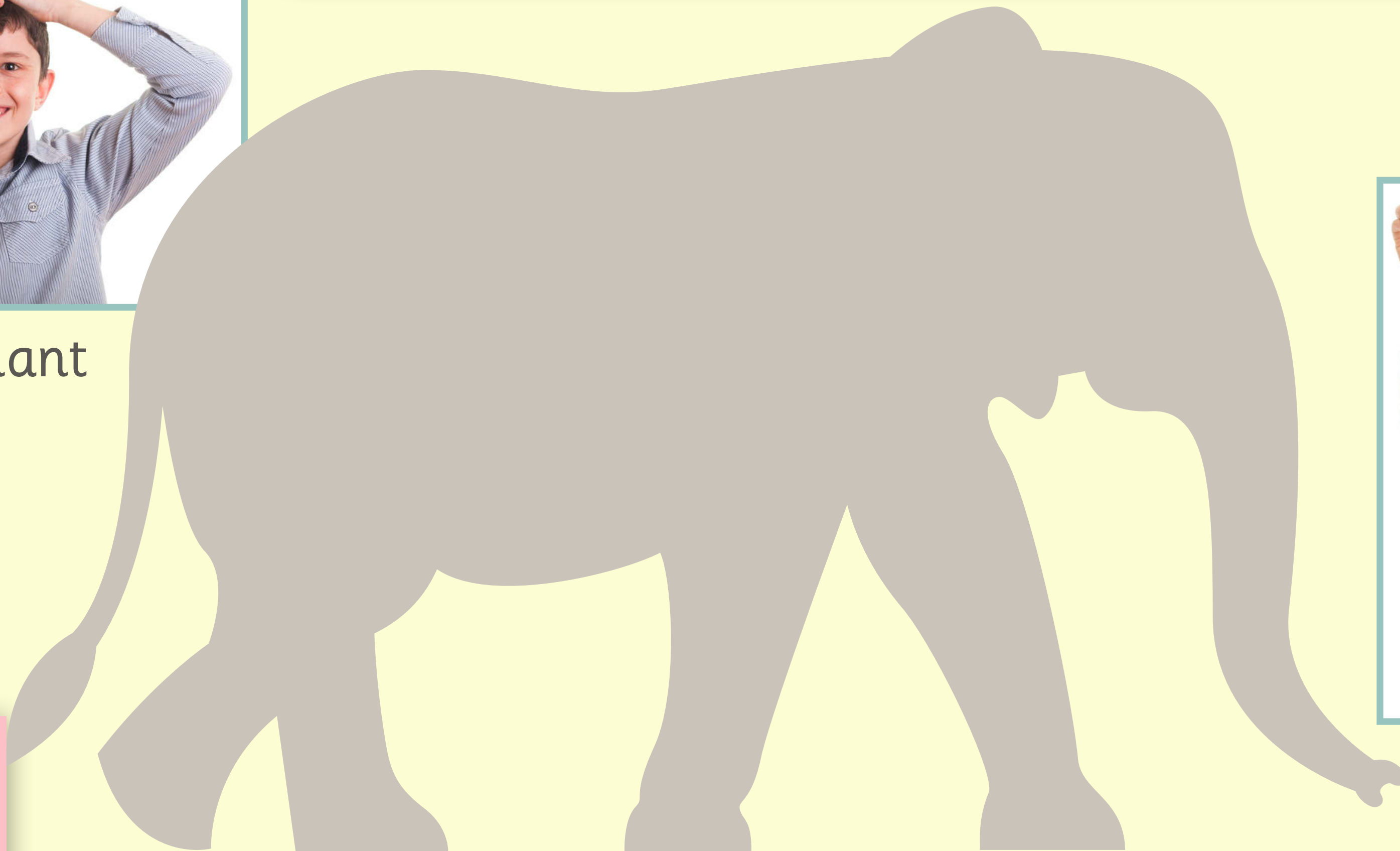
Which of these do you think is heavier?  
Put your hands on your head if you think it's the elephant and  
your hand in the air if you think it's the mouse.



Elephant



Mouse



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# Starter



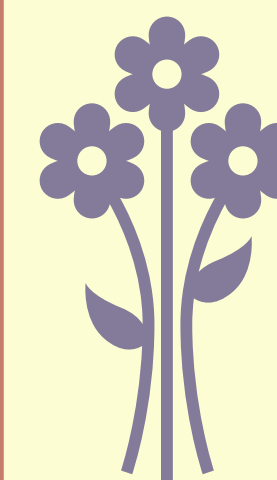
Which of these do you think is heavier?



House



Plant



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# Starter

Which of these  
do you think is  
heavier?



Baby



Person

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# Starter

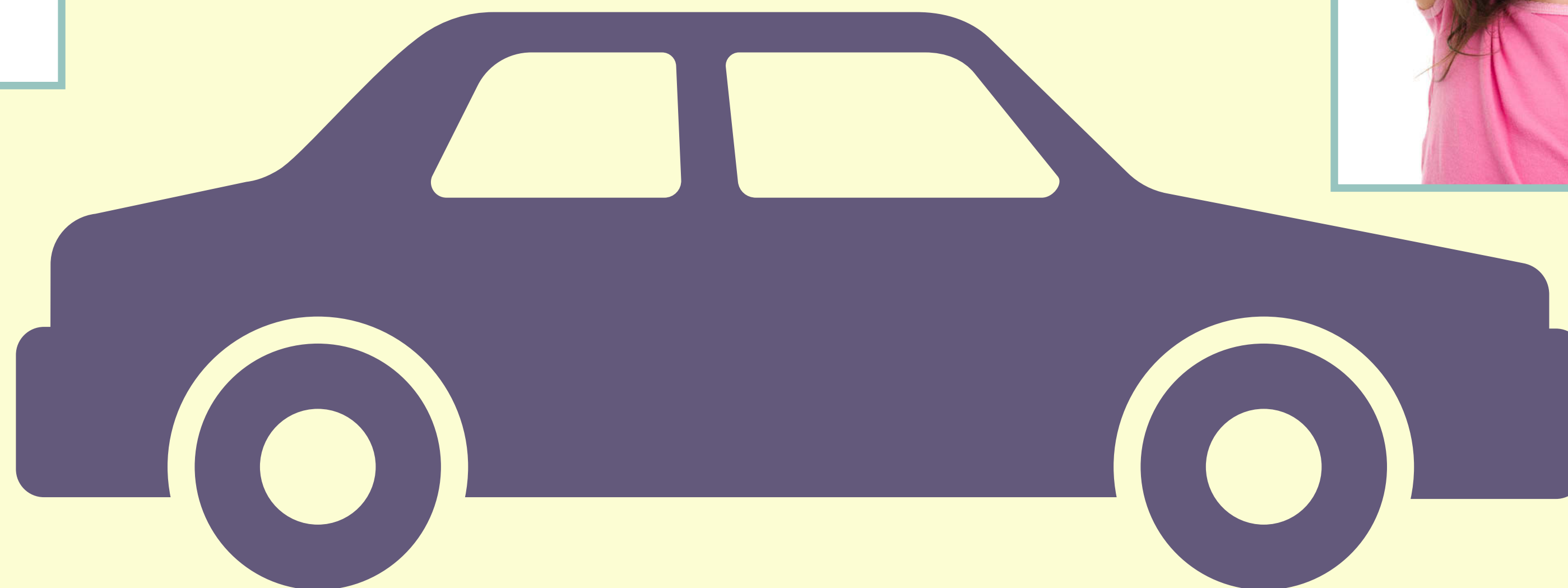
Which of these  
do you think is  
heavier?



Toy car



Car

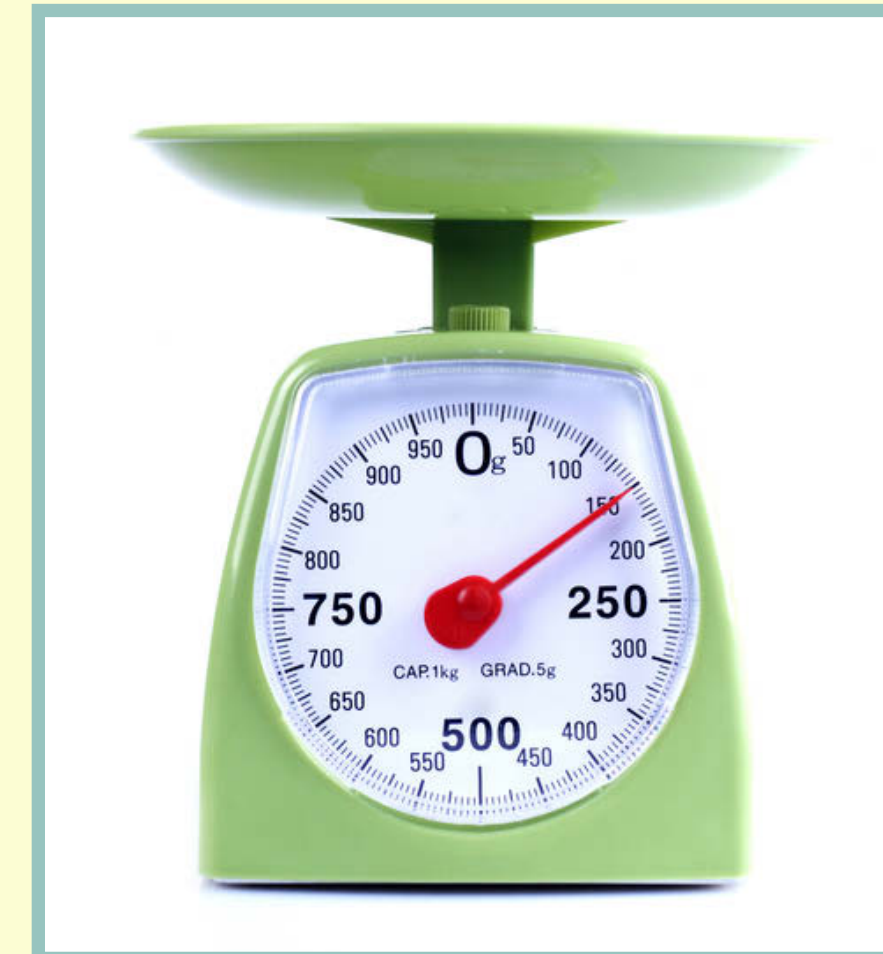
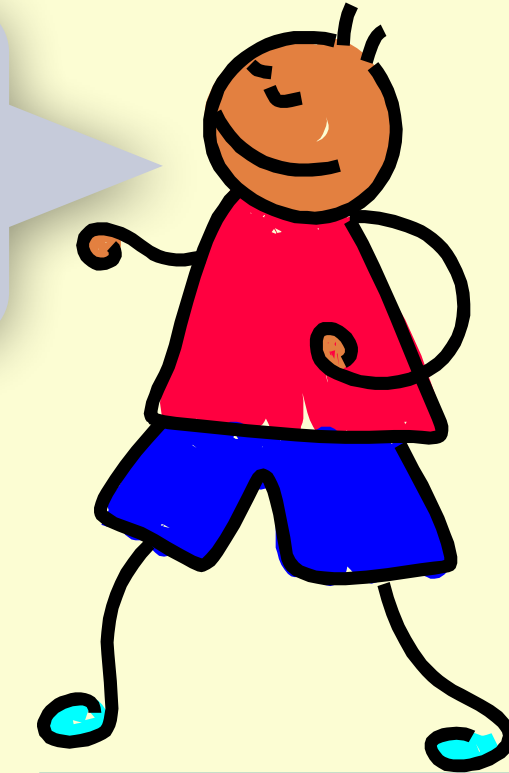


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What are these? What are they used for?

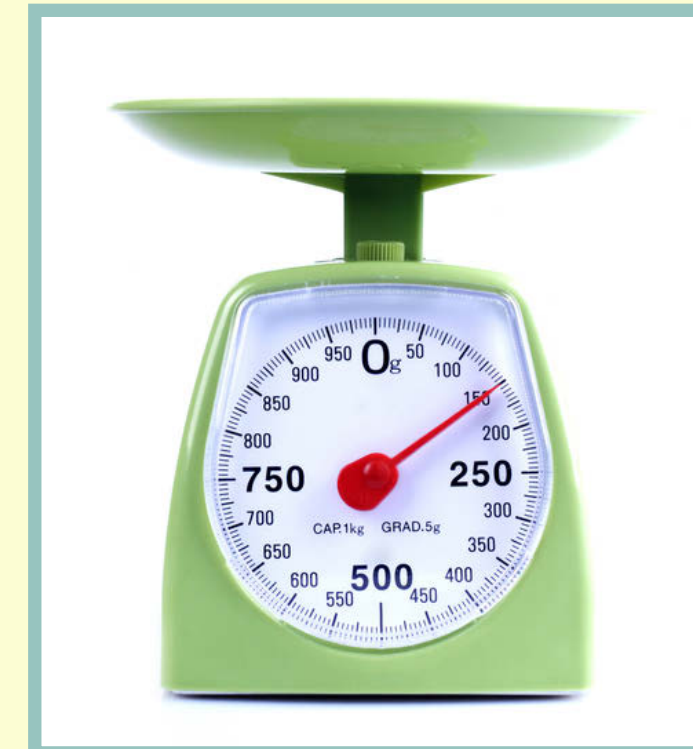
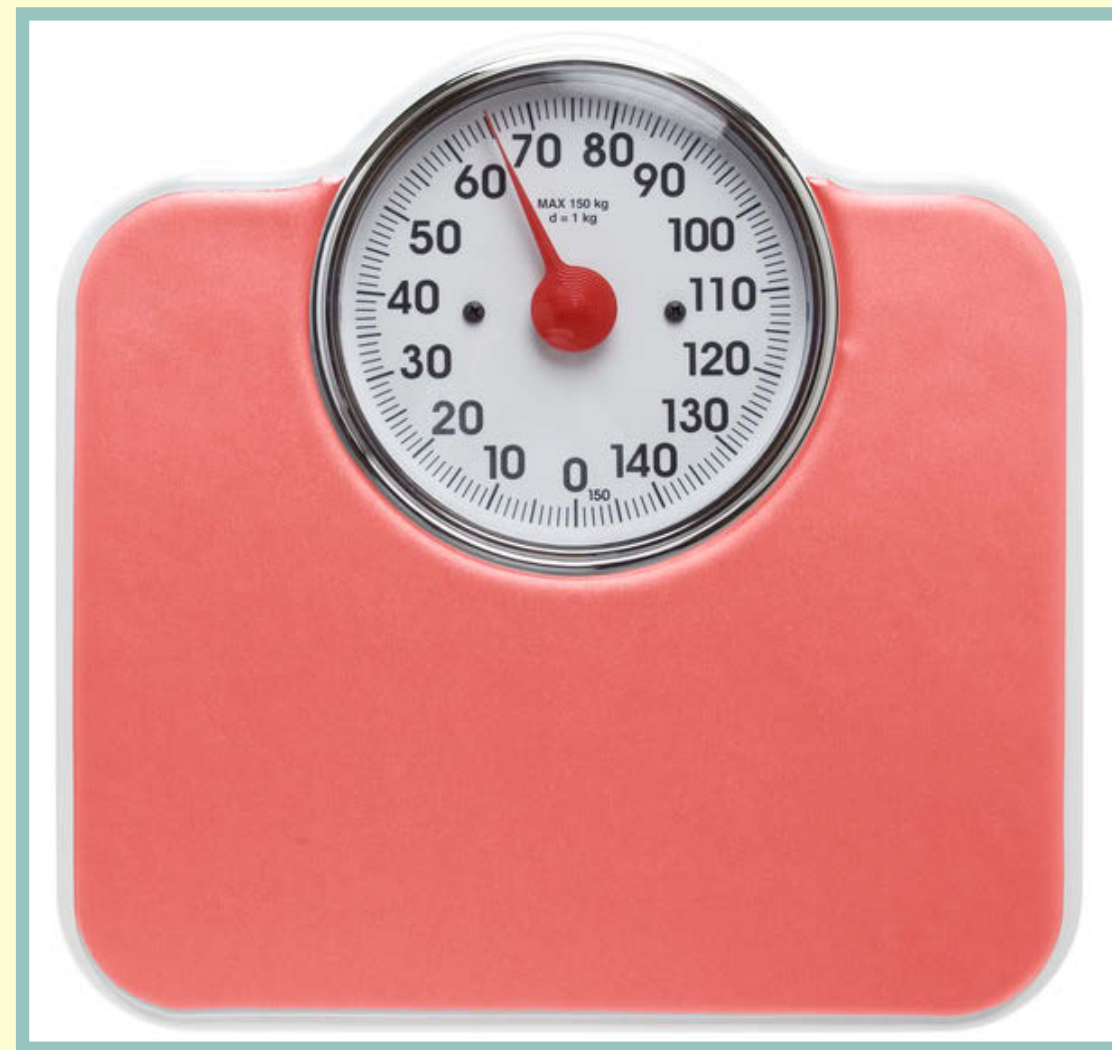


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These are all different types of weighing scales. They can all be used to measure the mass of objects. When people talk about how much something weighs they are actually talking about the mass.

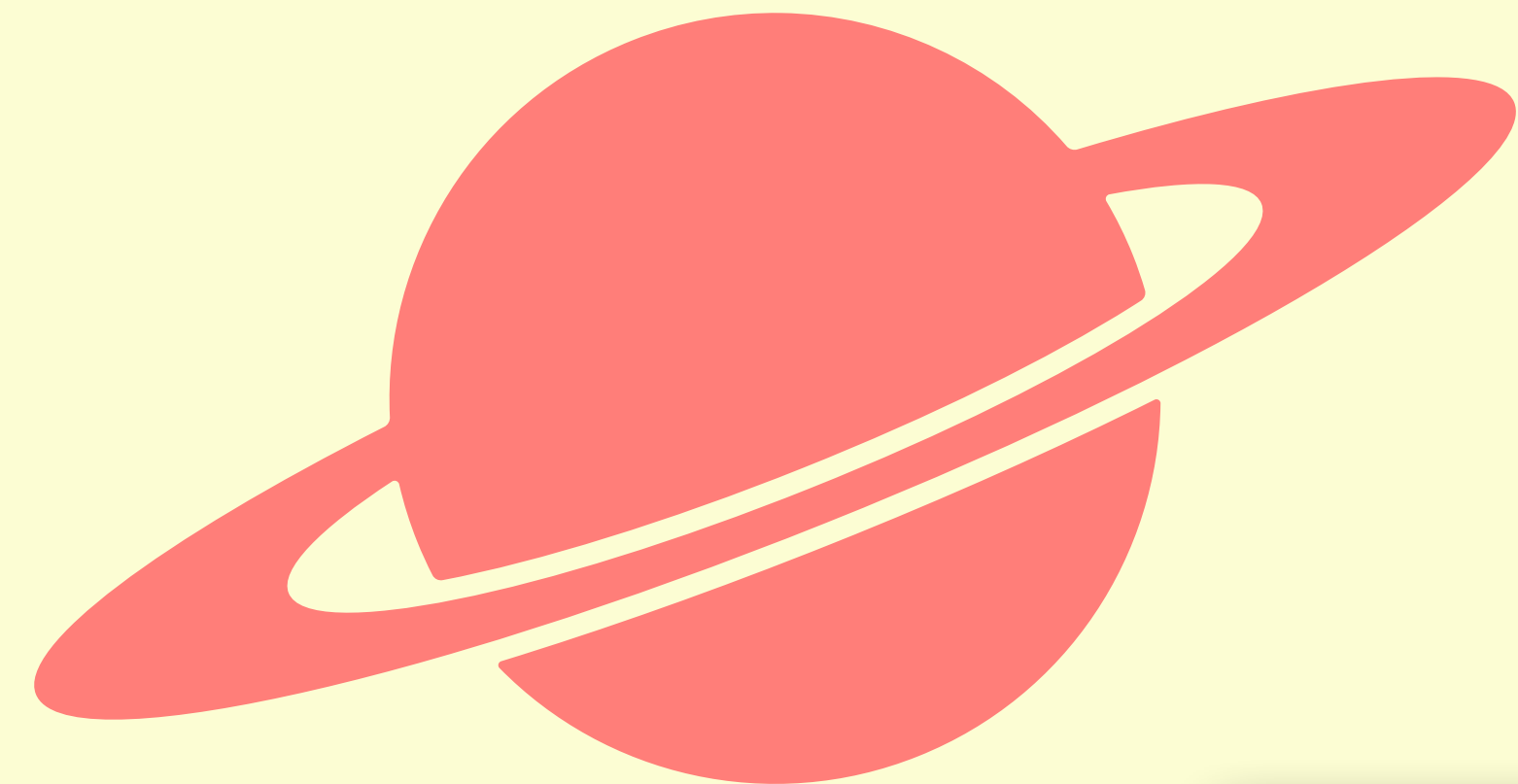
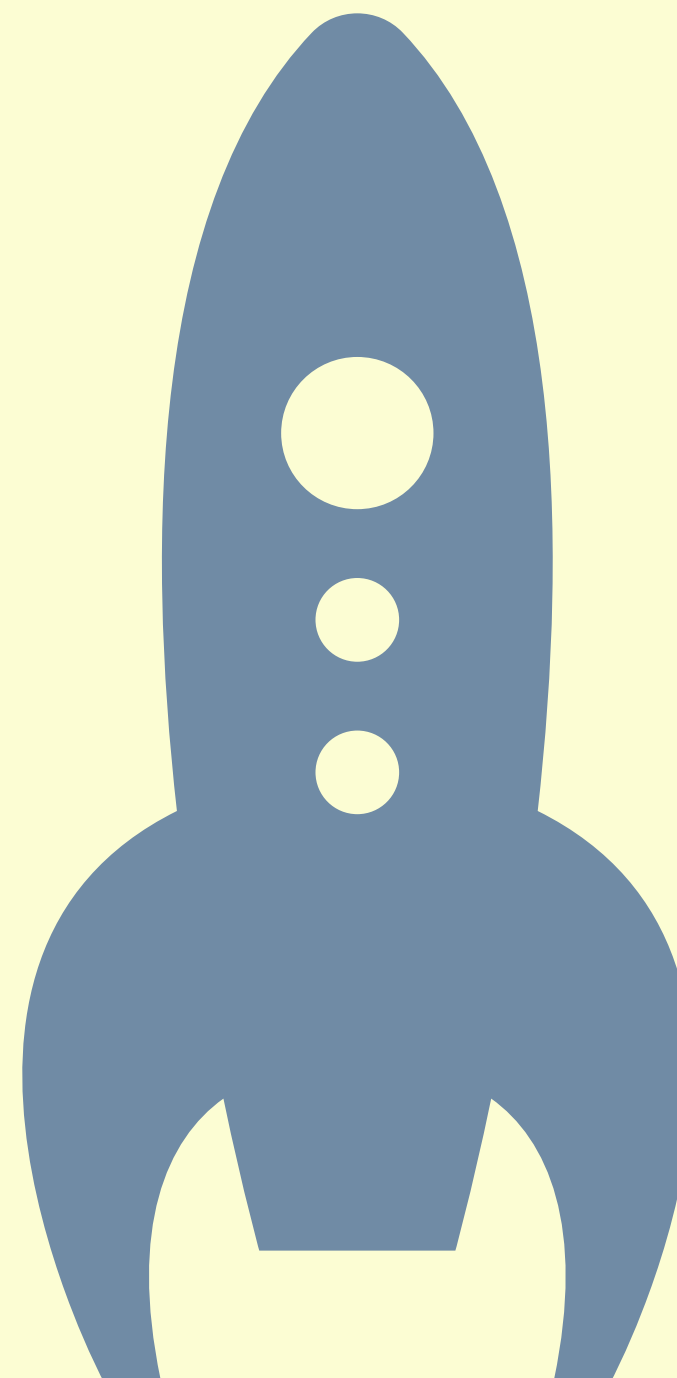
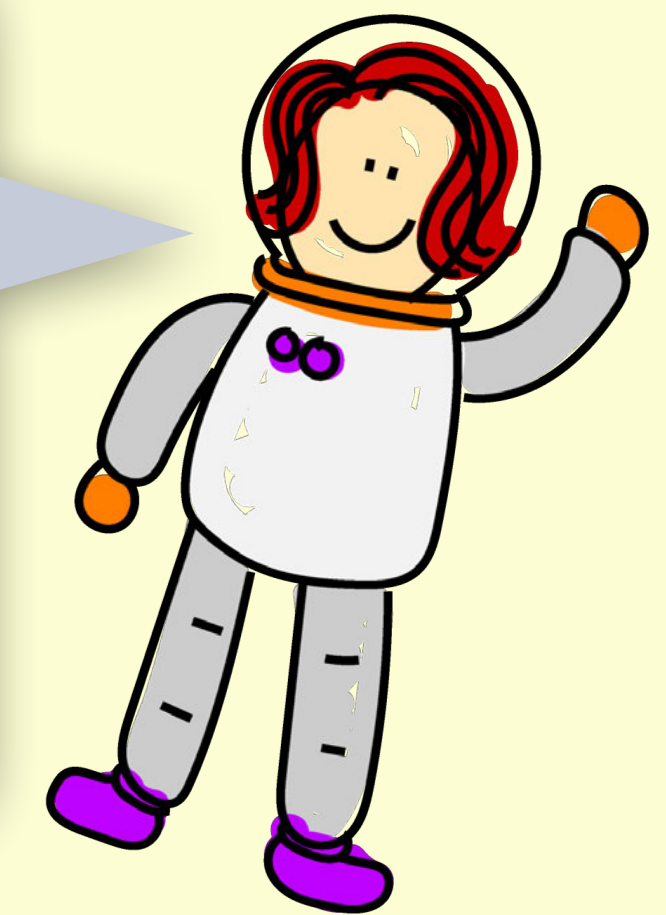


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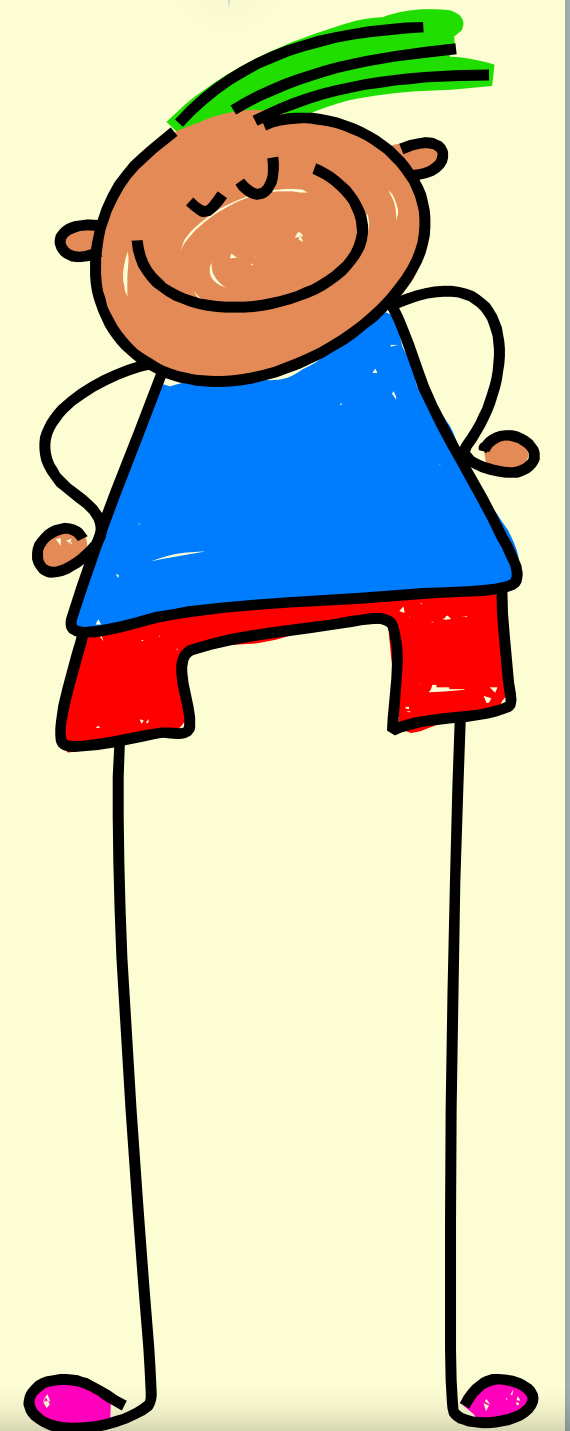
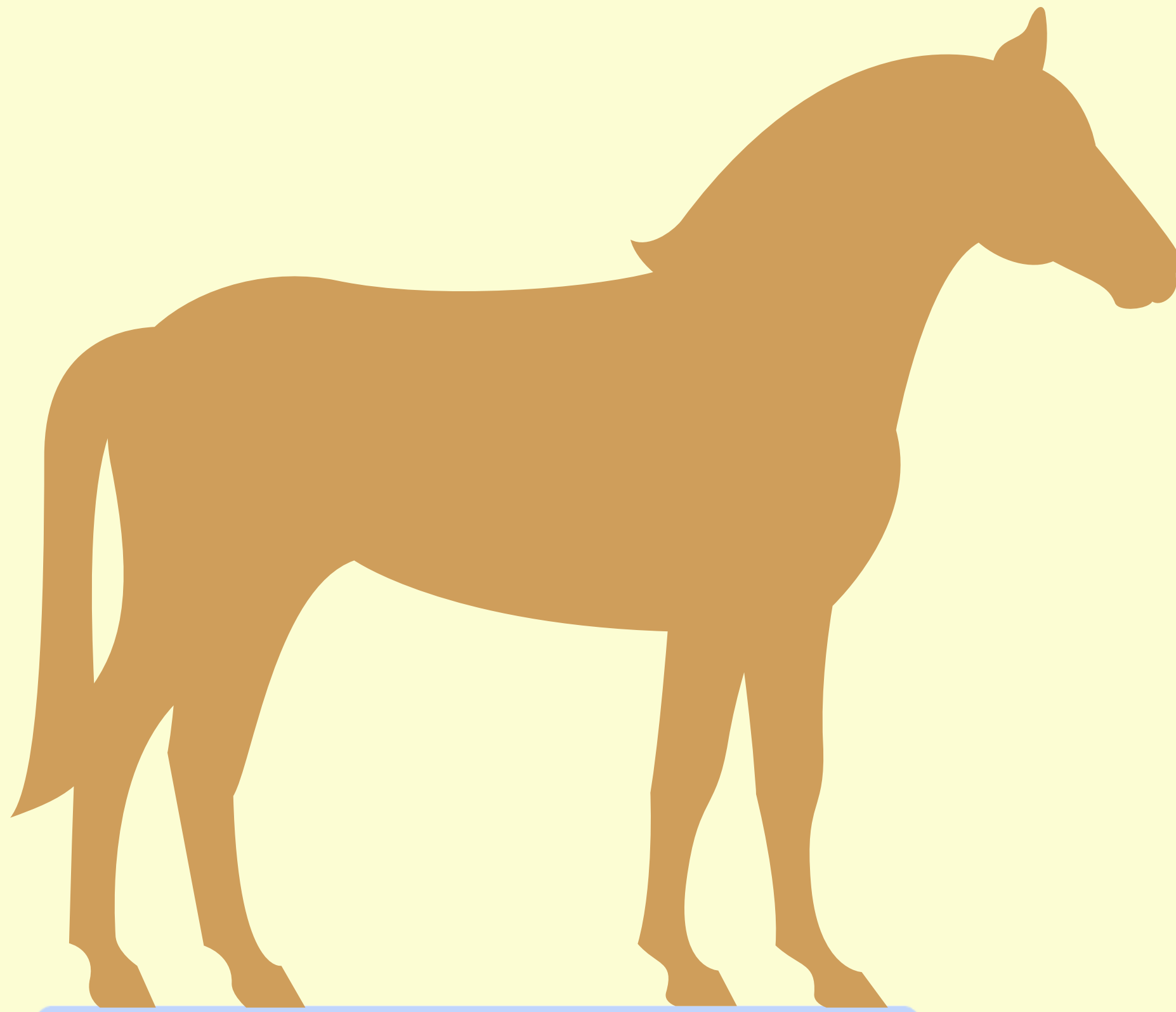
On earth mass and weight are the same. A rocket would be very heavy on earth, but it would feel a lot lighter in space. Its weight changes in space, but its mass doesn't.



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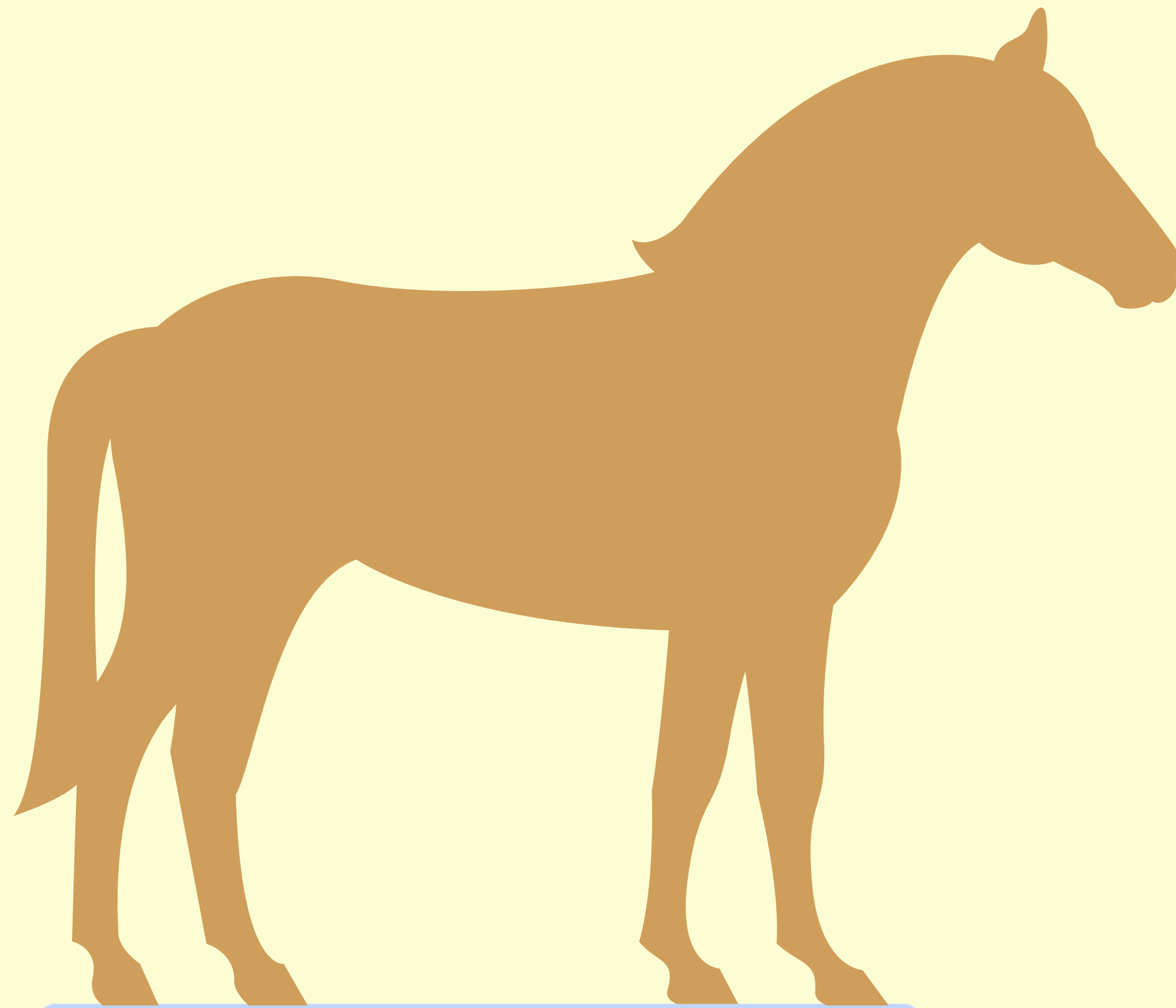
Which animal is heavier?



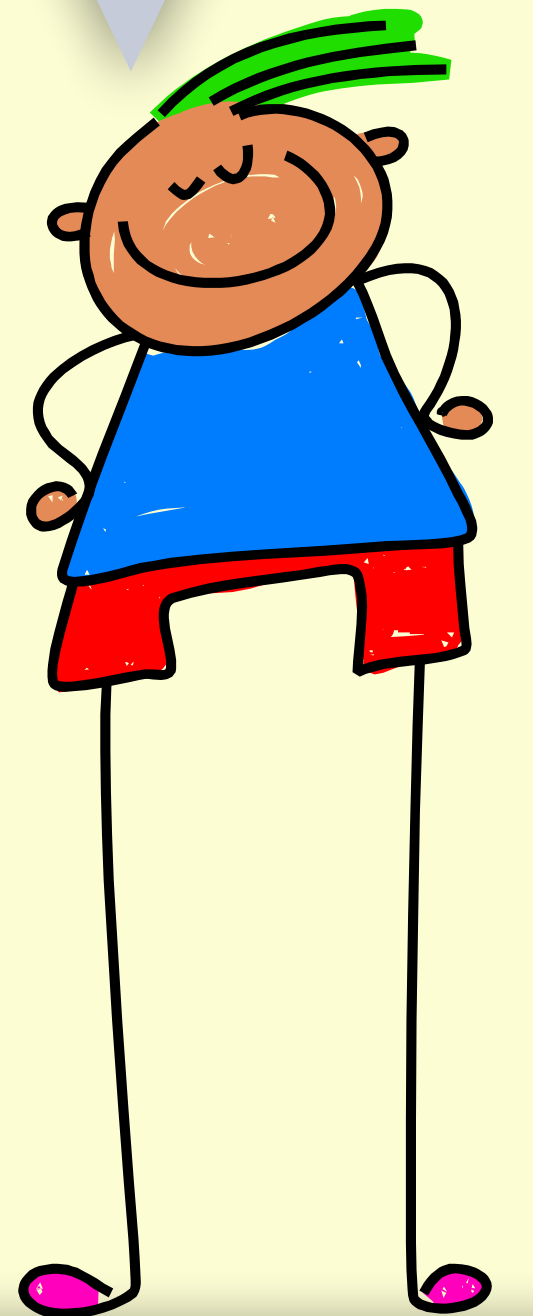
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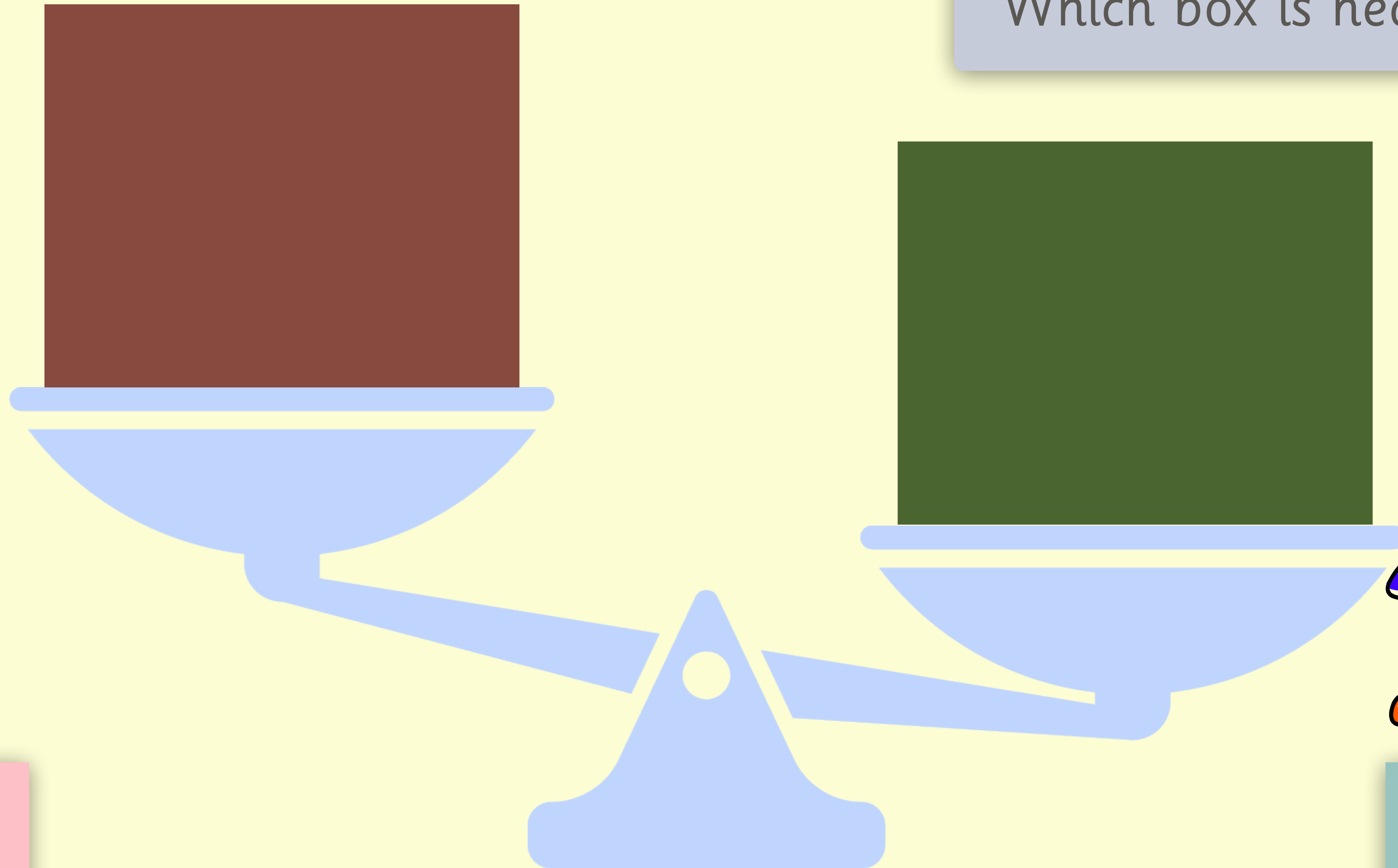
The horse is heavier. It has pushed its side of the scales down.



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Which box is heavier?

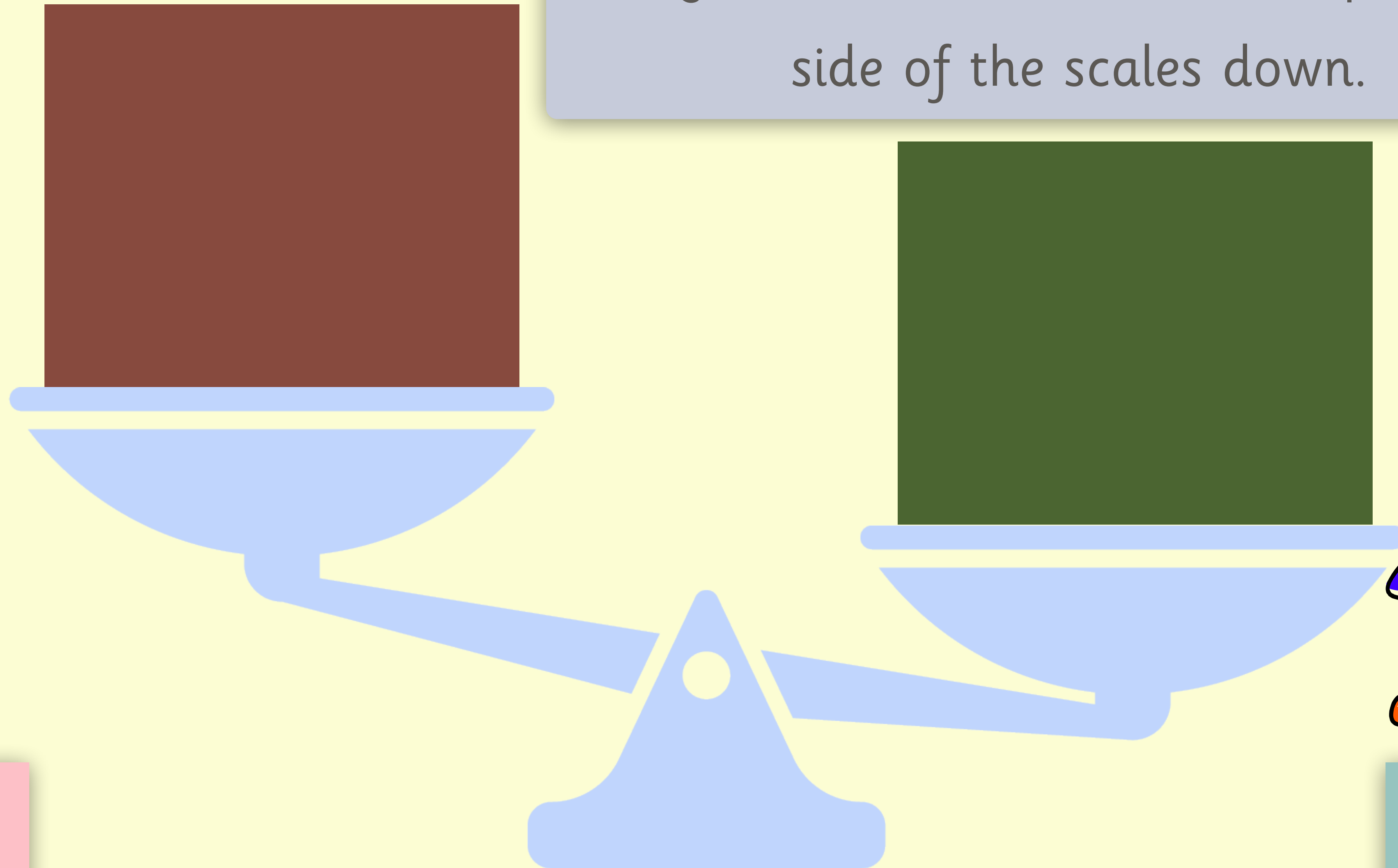


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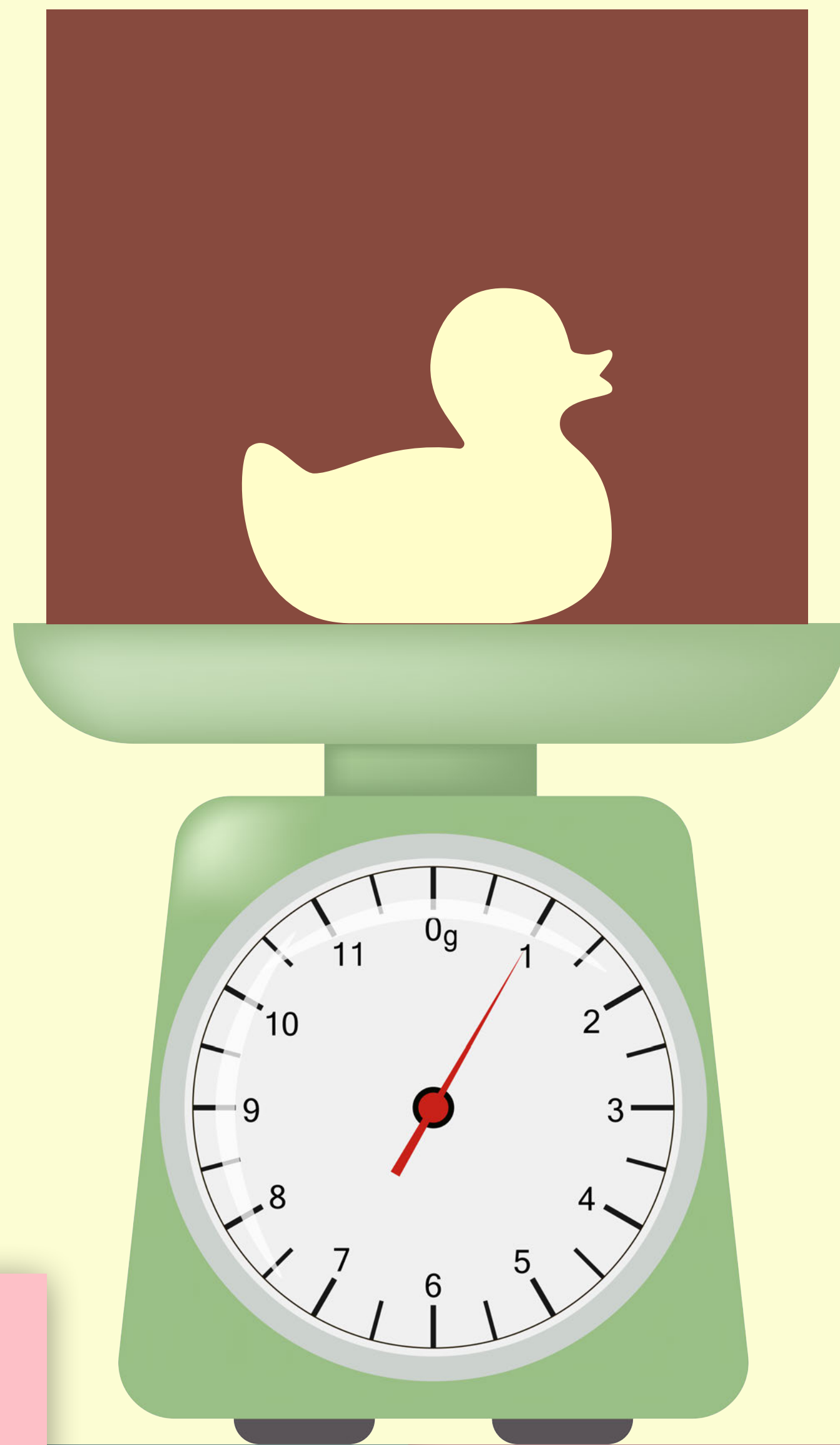


The green box is heavier. It has pushed its side of the scales down.



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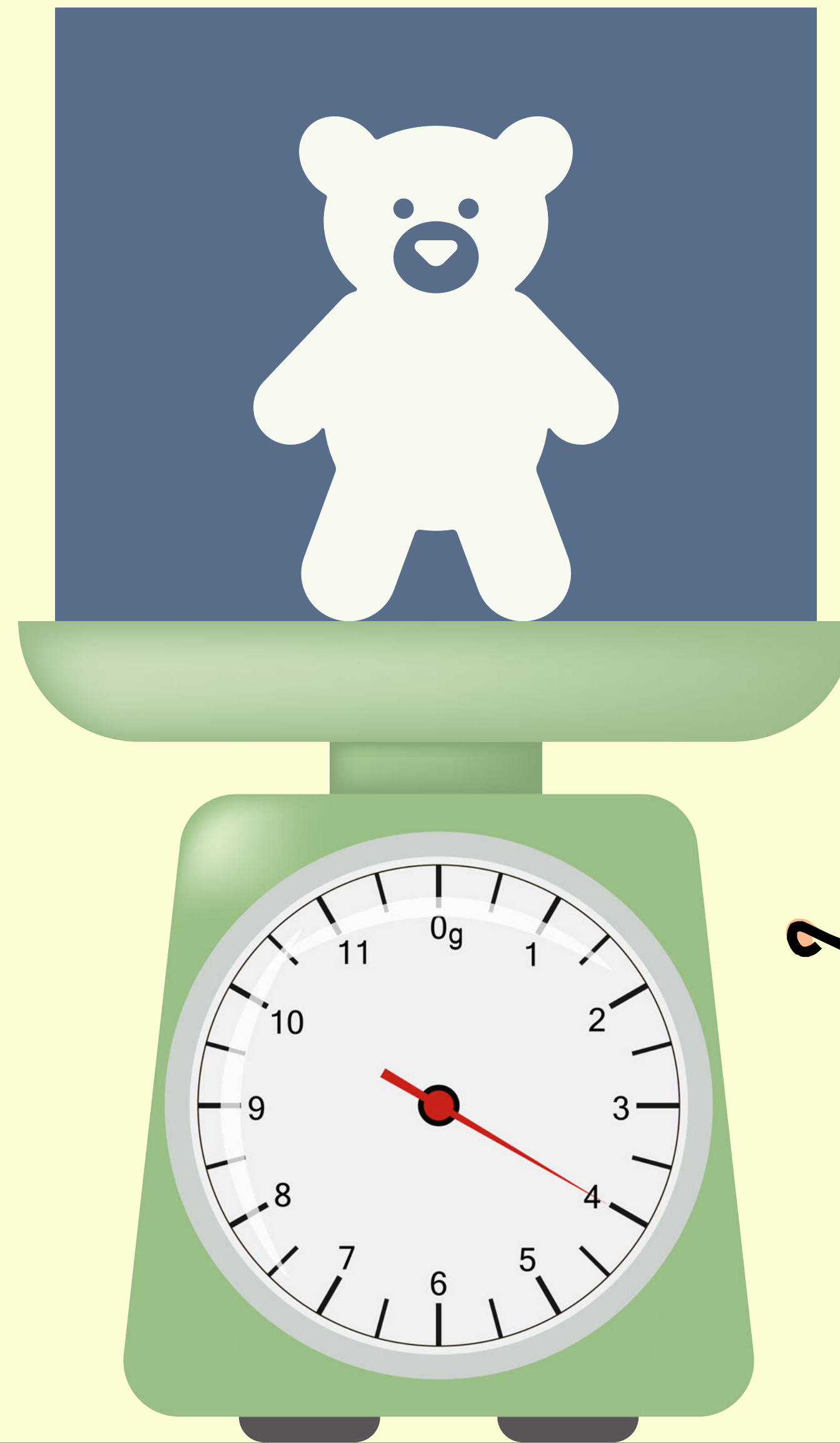
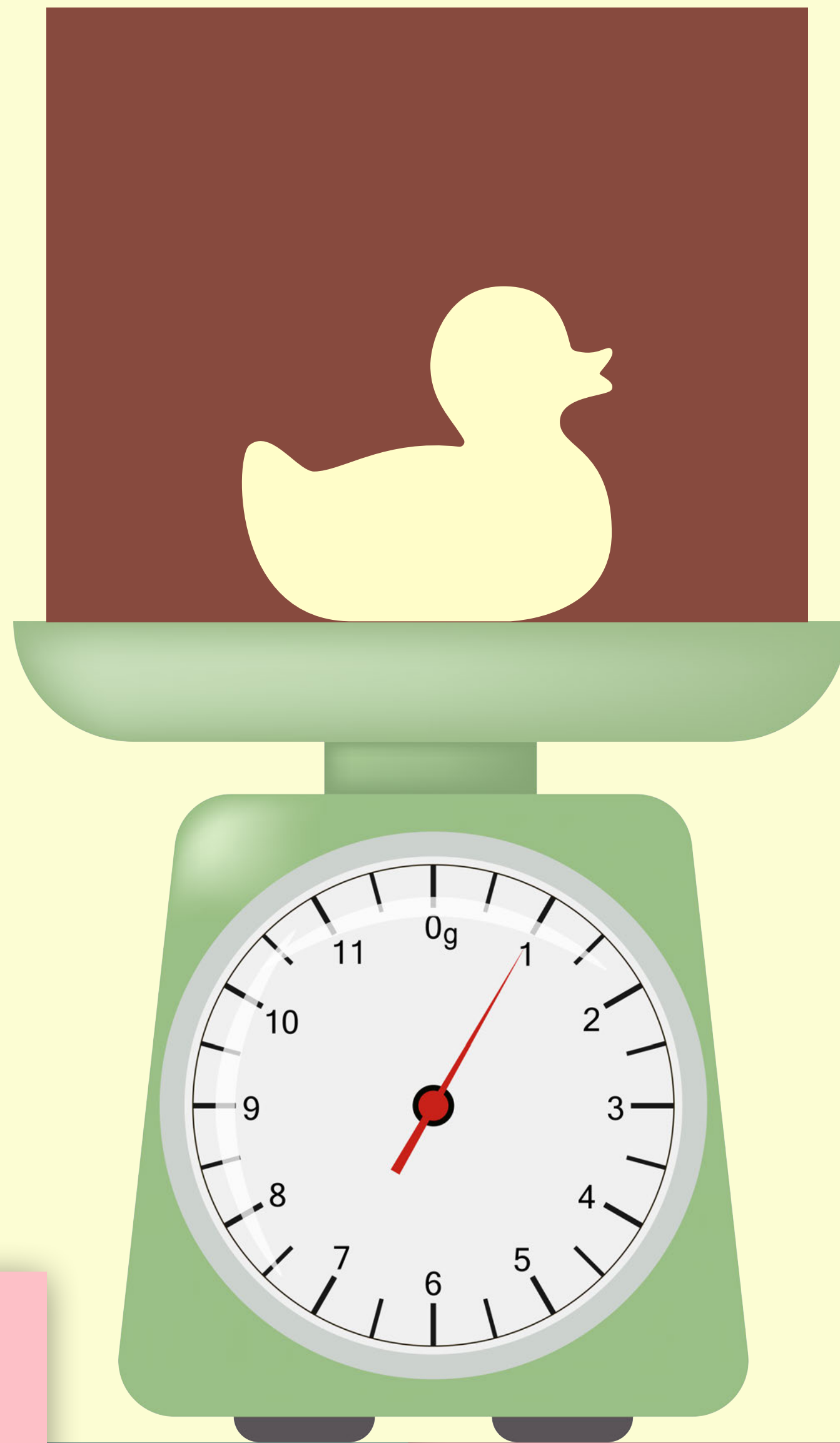
How much  
do each of  
these boxes  
weigh?



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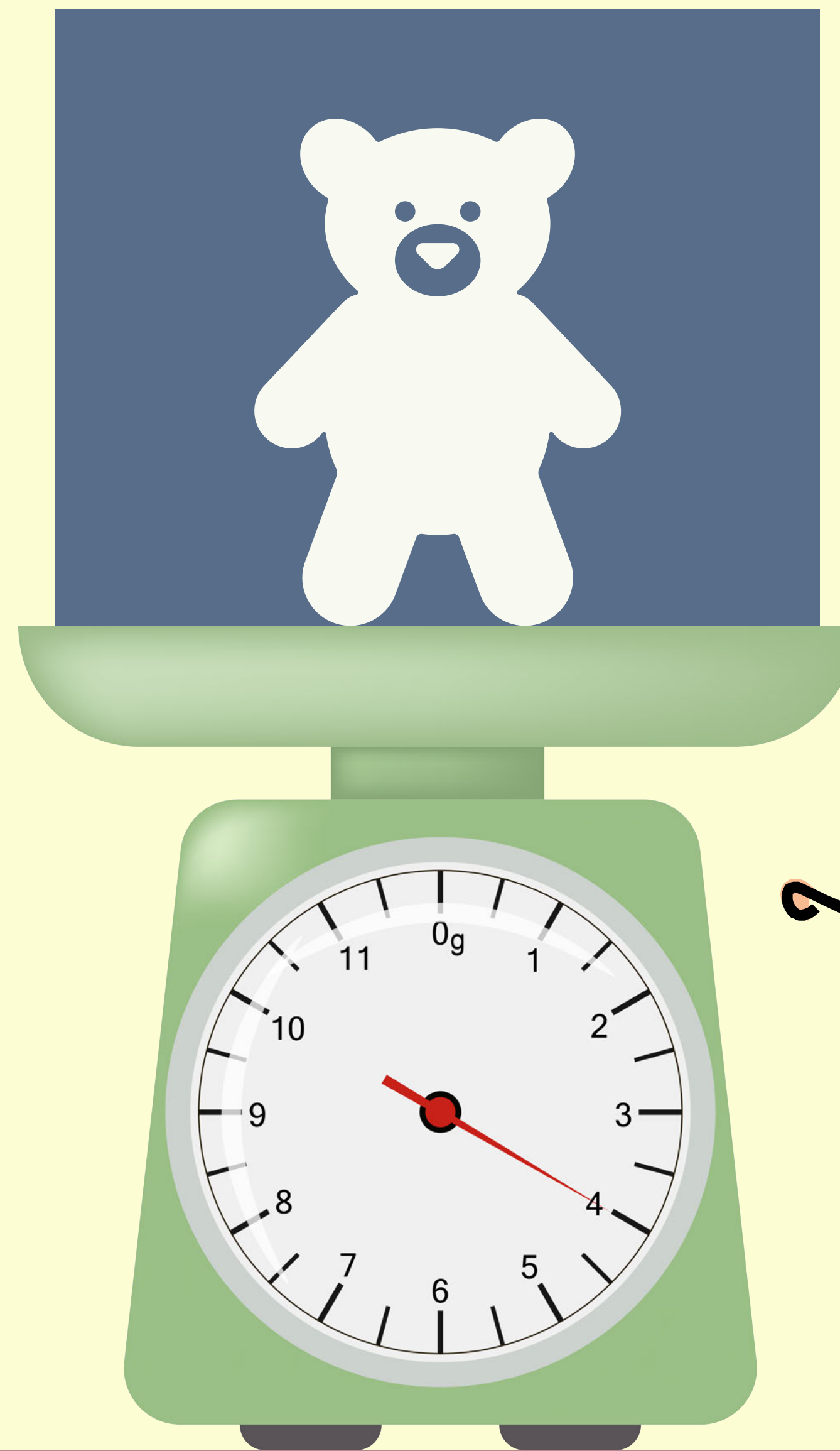
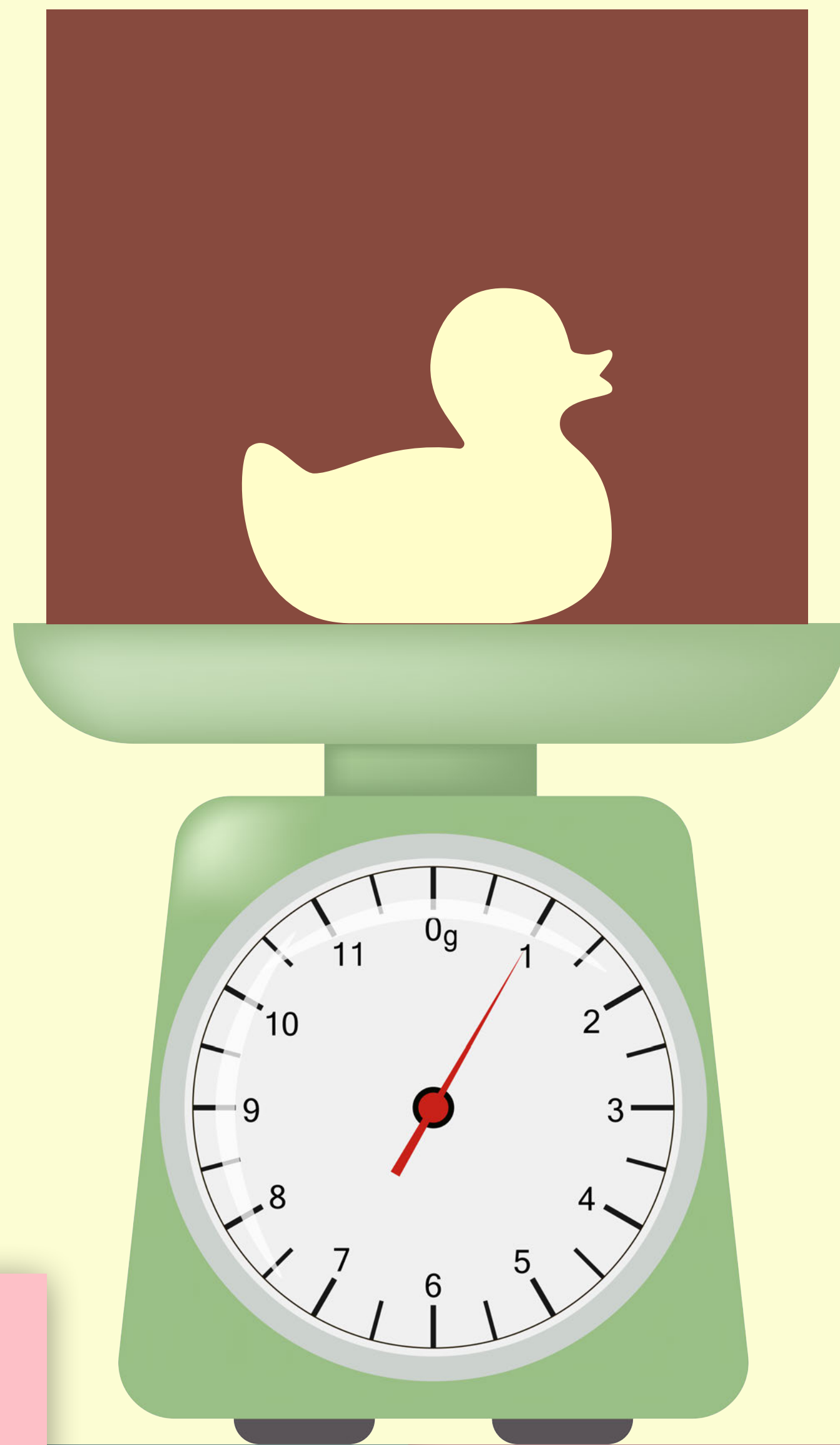


The box with the duck weighs 1g.  
The box with the bear weighs 4g.  
Which is heavier?



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

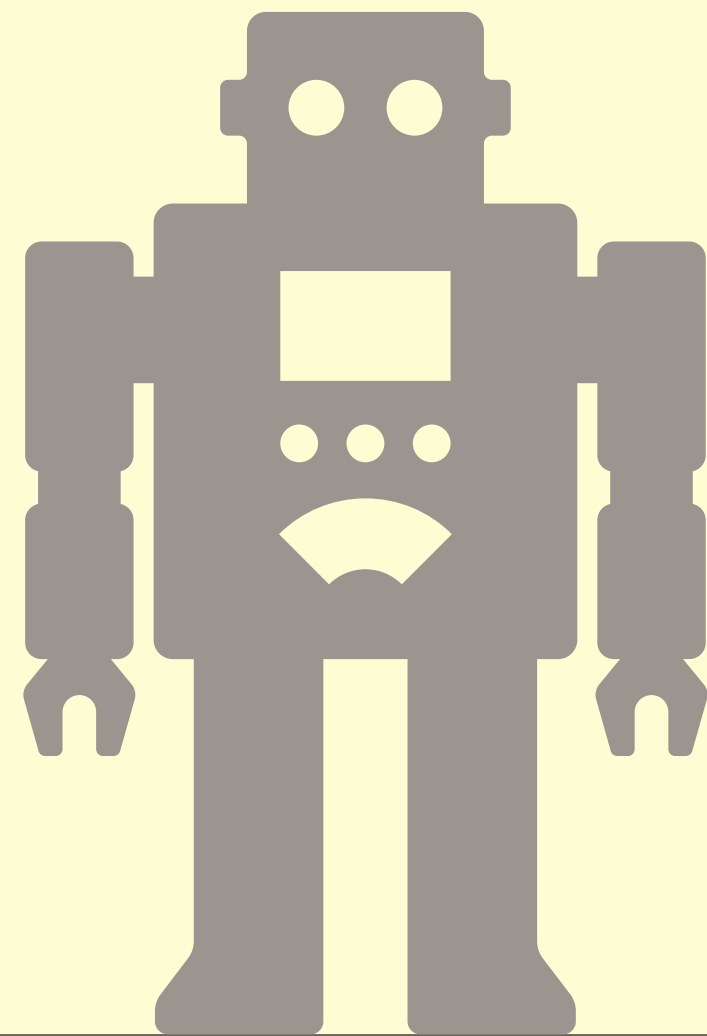


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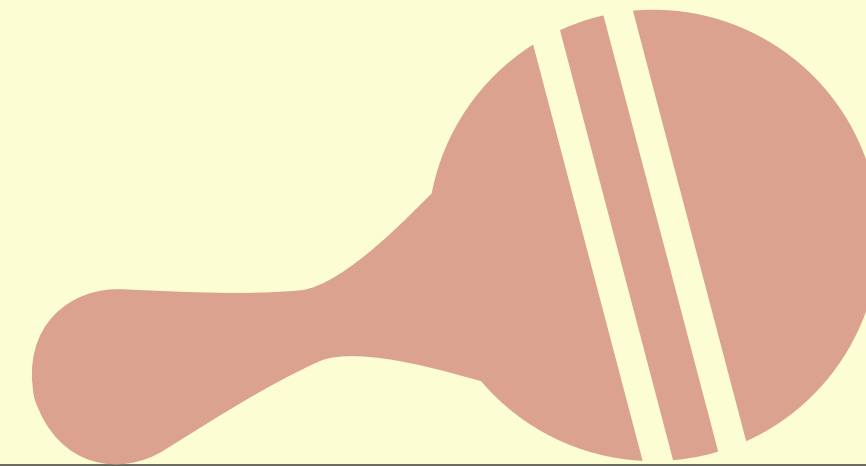
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Which toy is heavier? How do you know?



50.0 g

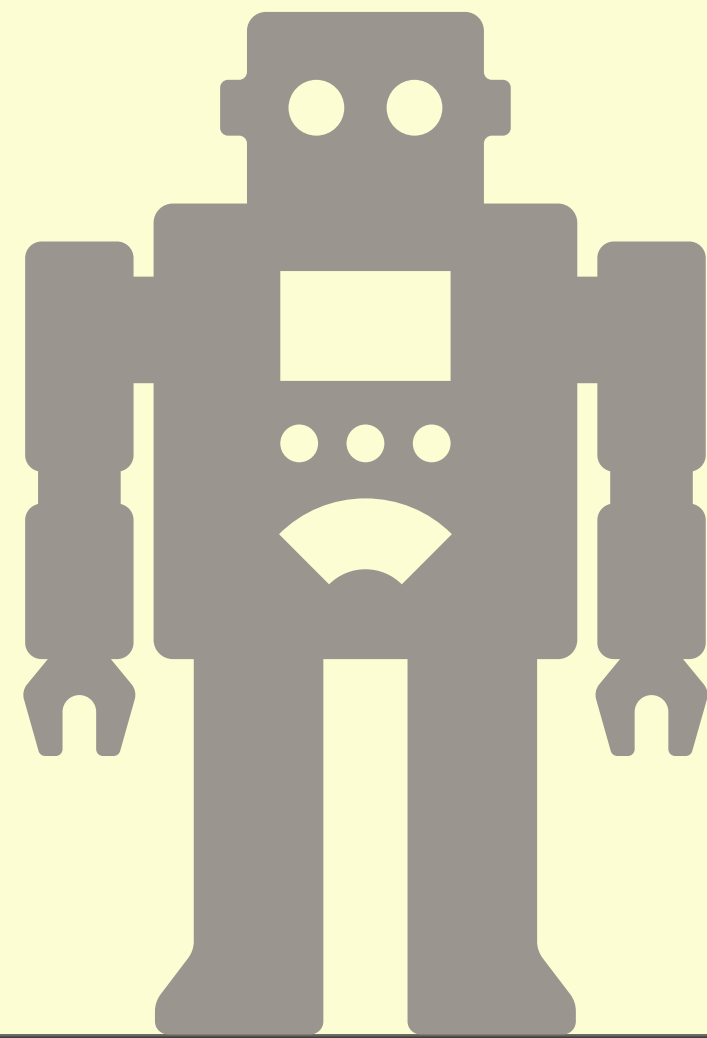


35.0 g

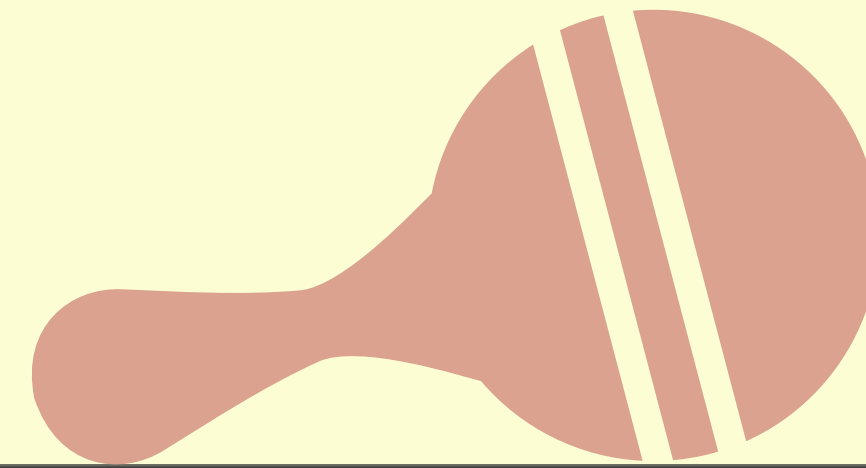
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The robot is heavier. It weighs 50g. 50g is more than 35g.



50.0 g



35.0 g

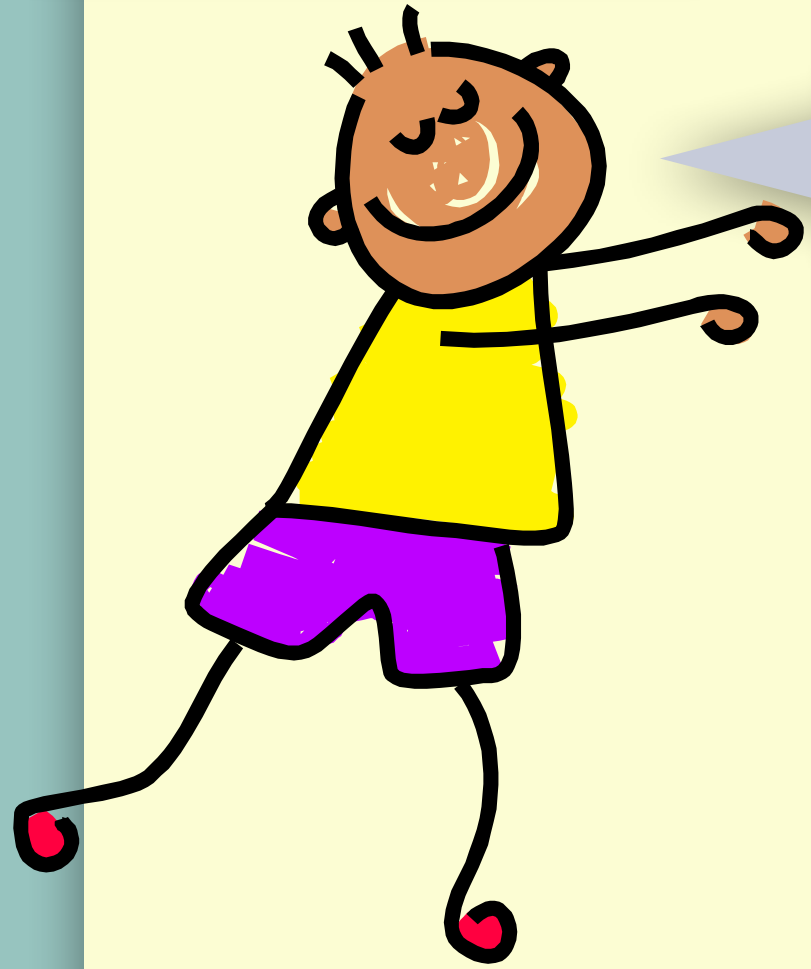
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## Plenary

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.



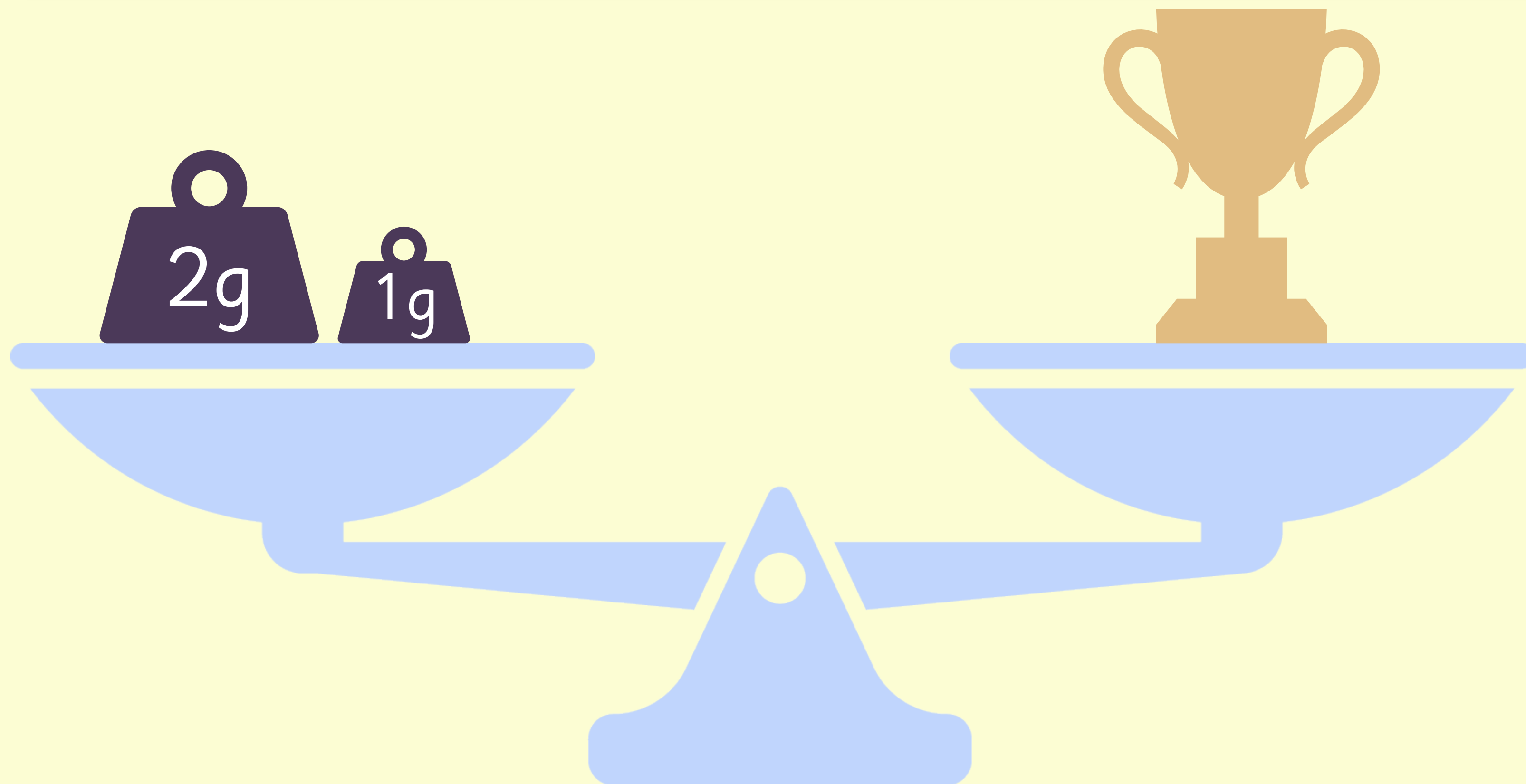
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## Plenary



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



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