

Compare and Order Masses



Predict which objects have the most mass and which have the least. Line up the objects from most mass to least mass. Draw and label the order of your objects.

Most Mass \longrightarrow Least Mass

Compare masses on the two-pan balance. Record your results in the table.

Comparing Masses Data Table

| Object in Pan 1 | Object in Pan 2 | Most Mass |
|-----------------|-----------------|-----------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

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Mass Order Data Table

| Mass Order | Name of Object |
|------------|----------------|
| Most Mass | |
| | |
| | |
| Least Mass | |

1. Which objects are the same size and shape?

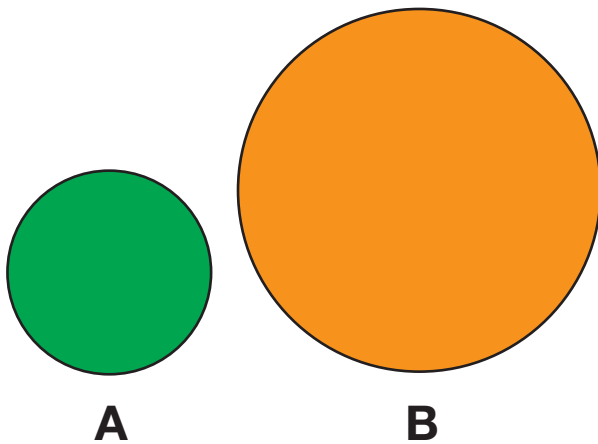
2. Do these two objects have the same mass? Why?

3. Are the wood and steel spheres the same shape?

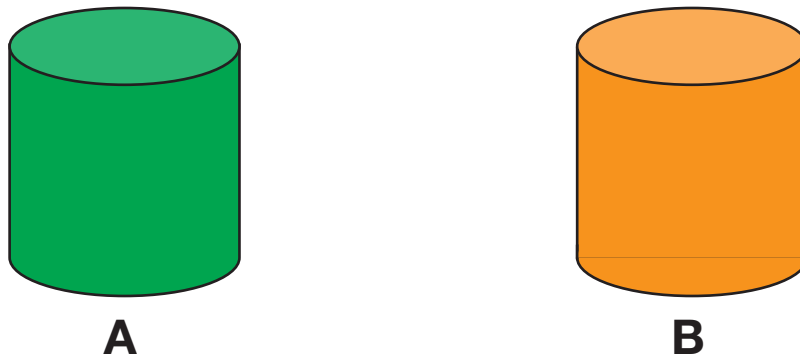
4. Which is smaller: the wood or steel sphere? _____

5. Which has more mass: the wood or steel sphere?

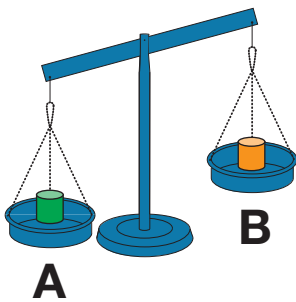
6. Two new spheres are shown. Can you tell by looking at the pictures which one has more mass? Explain.



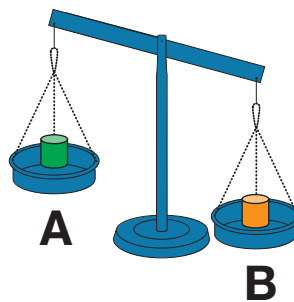
7. Cylinder A and Cylinder B are the same shape and size. Cylinder A is made of steel and Cylinder B is made of paper.



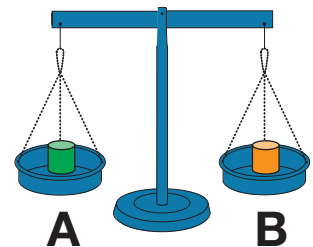
Circle the picture that shows what will happen.



Picture 1

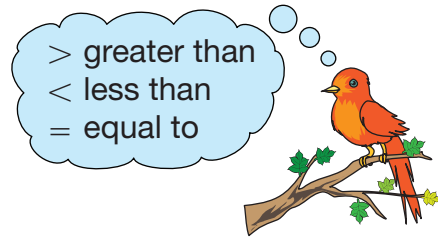
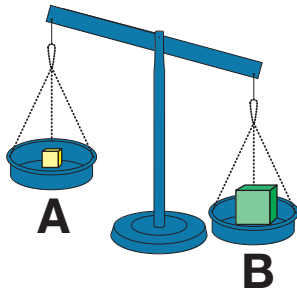


Picture 2



Picture 3

8. Rosa placed two objects on a two-pan balance. The picture shows what happened.



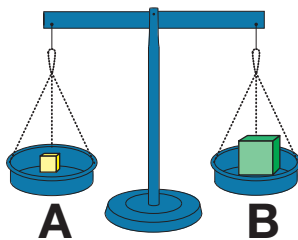
Circle the true statement about the objects' masses:

$A > B$

$A < B$

$A = B$

9. Levi placed two different cubes on a two-pan balance. The picture shows what happened.



Circle the true statement about the objects' masses:

$A > B$

$A < B$

$A = B$

10. Circle the true statement.

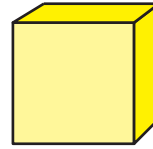
- A. Larger objects always have more mass than smaller objects.
- B. Smaller objects always have more mass than larger objects.
- C. You cannot tell which objects have more mass just by looking at them.



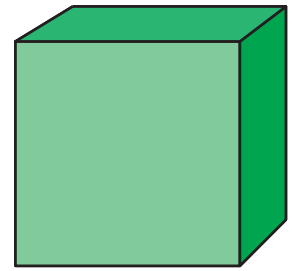
Check-In: Questions 11–12

11.A. Do the objects have the same shape? _____

B. Are the objects the same size? _____



A

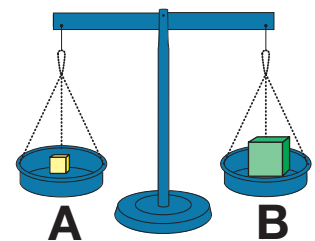
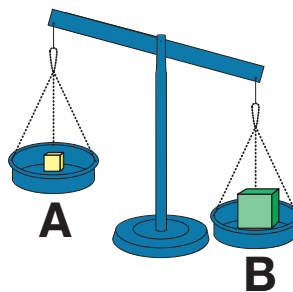
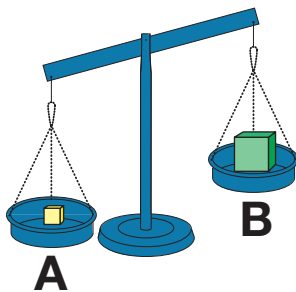


B

C. Can you tell which one has more mass? Explain.

12. Object A is made of wood and Object B is made of steel.

A. Circle the picture that shows what will happen if you placed the two cubes on the two-pan balance.



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B. Fill in the circle with $>$, $<$, or $=$ to make the statement true.

Object A's Mass Object B's Mass