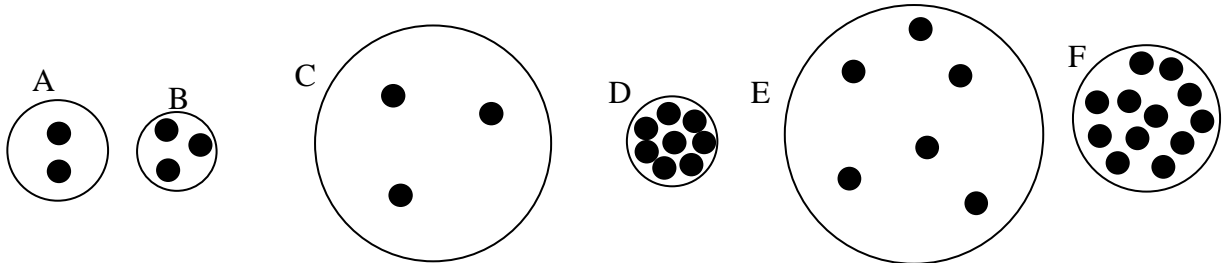


**Part I:**

The objects below are mostly empty space. The circle is the edge of each object. The dots inside represent all of each object's mass. The empty space inside the objects has no air or mass of any kind. All of the objects are in similar locations on the same planet.

1. Which object has the most weight?      A      B      C      D      E      F
2. Which object has the least weight?      A      B      C      D      E      F
3. Which object has the most volume?      A      B      C      D      E      F
4. Which object has the least volume?      A      B      C      D      E      F
5. Which object is most dense?      A      B      C      D      E      F
6. Which object is least dense?      A      B      C      D      E      F
7. Which object has the most mass?      A      B      C      D      E      F
8. Which object has the least mass?      A      B      C      D      E      F



**Part II:** For the following questions, tell whether each property increases, decreases, or stays the same. Darken the correct symbol, either +, -, or =.

9-12. A container stays the same size, but more stuff is placed inside the container.

9. mass    +    -    =

10. volume    +    -    =

11. density    +    -    =

12. weight    +    -    =

13-16. Something gets bigger, but the amount of stuff in it does not change. What is happening to its...

13. mass    +    -    =

14. volume    +    -    =

15. density    +    -    =

16. weight    +    -    =