What is Buoyancy?

Quiz

1.) When an object sinks:
   a. The weight of the object is greater than the upward buoyant force
   b. The weight of the object is less than the upward buoyant force
   c. The density of the object is less than 1 g/cm³.
   d. The density of the object is equal to 1 g/cm³.

2.) Archimedes said that
   a. the buoyant force is equal to gravity
   b. The weight of the object is equal to the buoyant force
   c. The weight of the displaced liquid is equal to the buoyant force
   d. The buoyant force is equal to the density of the object

3.) An object is neutrally buoyant when
   a. It neither sinks nor floats
   b. The weight of the object is equal to the upward buoyant force
   c. The density of the object is equal to the liquid it is submerged in
   d. All of the above

4.) Mass is
   a. A measurement of matter
   b. Weight
   c. Gravity
   d. None of the above

5.) Weight is
   a. Mass
   b. Mass*gravity
   c. Gravity
   d. A measurement of matter

6.) Density is
   a. A material's mass per unit volume
   b. A material's volume per unit mass
   c. A material's thickness
   d. A material's ability to float

7.) If the object's weight is greater than the upward buoyant force
   a. The object will sink
   b. Additional buoyant force is needed to be neutrally buoyant
   c. Additional weight is needed to be neutrally buoyant
   d. A and B are correct

8.) If the object's weight is equal to the buoyant force
   a. The object will remain at rest
   b. The object will neither sink nor float
   c. The object is neutrally buoyant
   d. All of the above

1.) a 2.) c 3.) d 4.) a 5.) b 6.)a 7.) d 8.) d