

1. If two objects are made of the same substance and have the same mass, the shape of the object determines whether or not it sinks or floats in a fluid.

true

false

2. An object sinks in a fluid until it floats.

true

false

3. If an object floats in water, the weight of the water displaced is greater than the weight of the body immersed in the water.

true

false

4. If you put a brick in a tub filled to the top with water, the amount of water that overflows is equal to the volume of the brick.

true

false

5. Water is the only fluid that can provide buoyancy.

true

false

6. Hot air balloons float because hot air displaces cool air in the atmosphere.

true

false

7. Which of the following do NOT use compressed air to provide buoyancy?

- a. airplanes
- b. scuba divers
- c. fish
- d. submarines

8. Which of the following is a true statement.

- a. a rowboat has positive buoyancy
- b. a cork has negative buoyancy
- c. a brick has positive buoyancy
- d. a penny has neutral buoyancy