

Warm Up

1. Salt water is more dense than fresh water. A ship floats in both fresh water and salt water. Compared to the fresh water, the amount of water displaced in the salt water is
A) more B) less C) the same
2. As a rock sinks deeper and deeper into water of constant density, what happens to the buoyant force on it?
A) It increases. B) It decreases. C) It remains constant.
3. Two cubes of the same size are dropped into water. The cube of wood floats on the water, whereas the cube of gold is totally submerged. Which has the greater buoyant force on it?
A) The wood. B) The gold. C) The same buoyant force.