

1. Did the hydrometer float higher in the salt water or in the fresh water?
2. Density refers to how closely packed particles of a substance are in relation to its volume. The denser the liquid is, the better it is able to support the mass of other materials. Based on this knowledge, which of the two liquids is more dense? What in the hydrometer experiment indicated this?
3. What are the implications of a denser body of water for the possible size of load-carrying ships moving in water?
4. A large cargo ship loads up in Thunder Bay, Ontario, with prairie grain destined for European markets. It will travel through the Great Lakes and down the St. Lawrence River and then enter the Atlantic Ocean. Using relative terms, describe where the waterline on the ship would be (how high or low the ship floats in the water) as it travels through each of the bodies of water. Explain why these differences occur.