

Figure F

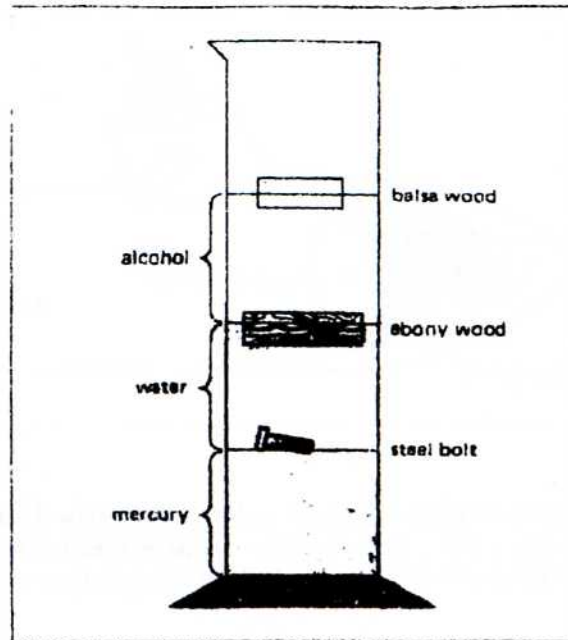


Figure G

Figure F shows salad dressing before it is mixed.

1. The parts are separated because they have different _____
sizes, densities
2. Which part is most dense? _____ How do you know? _____
3. Which part is the least dense? _____ How do you know? _____

Study the mixture in Figure G. Then answer the questions.

4. Name the solids in the glass. _____
5. Name the liquids. _____
6. Which solid is the most dense? _____
7. Which solid is the least dense? _____
8. Which liquid is the most dense? _____
9. Which liquid is the least dense? _____
10. Which of these substances have densities greater than water? _____
11. Which have densities less than water? _____
12. Which substance is the most dense? _____
13. Which substance is the least dense? _____

SUBMARINES

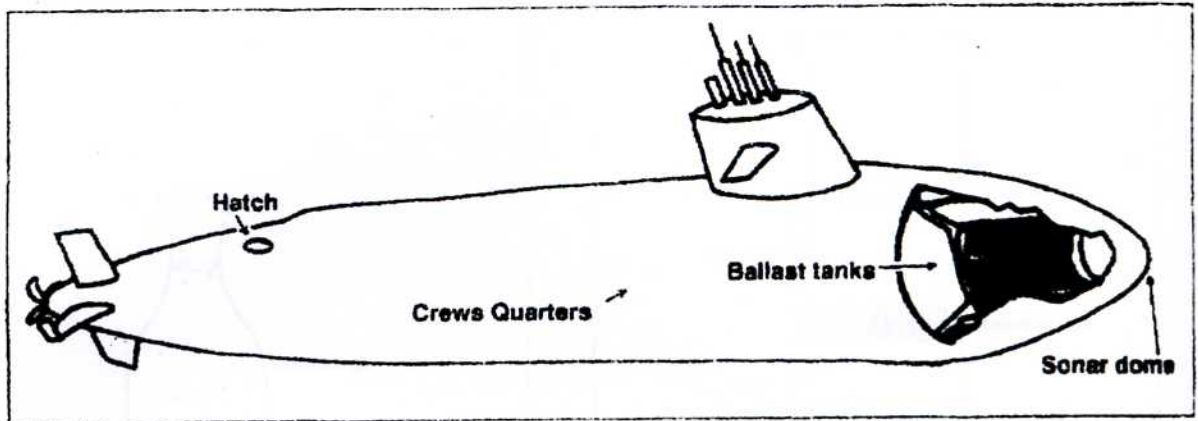


Figure H

A submarine has special tanks called ballast [BAL-ust] tanks. Ballast tanks are used to make the submarine heavier or lighter. When the ballast tanks are filled with seawater, the submarine submerges, or goes under water. When the water is forced out of the ballast tanks, the submarine rises and surfaces.

1. Adding ballast water makes a submarine _____ dense.
more, less
2. Forcing ballast water out makes a submarine _____ dense.
more, less
3. When a submarine is submerging its density is _____ than water.
greater, less
4. When a submarine is surfacing its density is _____ than water.
greater, less
5. When a submarine is submerging, its ballast tanks are _____.
full, empty

TRUE OR FALSE

In the space provided, write "true" if the sentence is true. Write "false" if the sentence is false.

- _____ 1. A bar of steel will float on water.
- _____ 2. The density of steel is greater than water.
- _____ 3. A steel ship will float on water.
- _____ 4. A steel ship is mostly metal.
- _____ 5. The density of a steel ship is greater than the density of water.
- _____ 6. Part of every floating object is below the water.
- _____ 7. Water pressure increases the deeper you go.
- _____ 8. An object will float in water if it is less dense than water.
- _____ 9. An object will sink in water if it is less dense than water.
- _____ 10. A submarine can change its density.