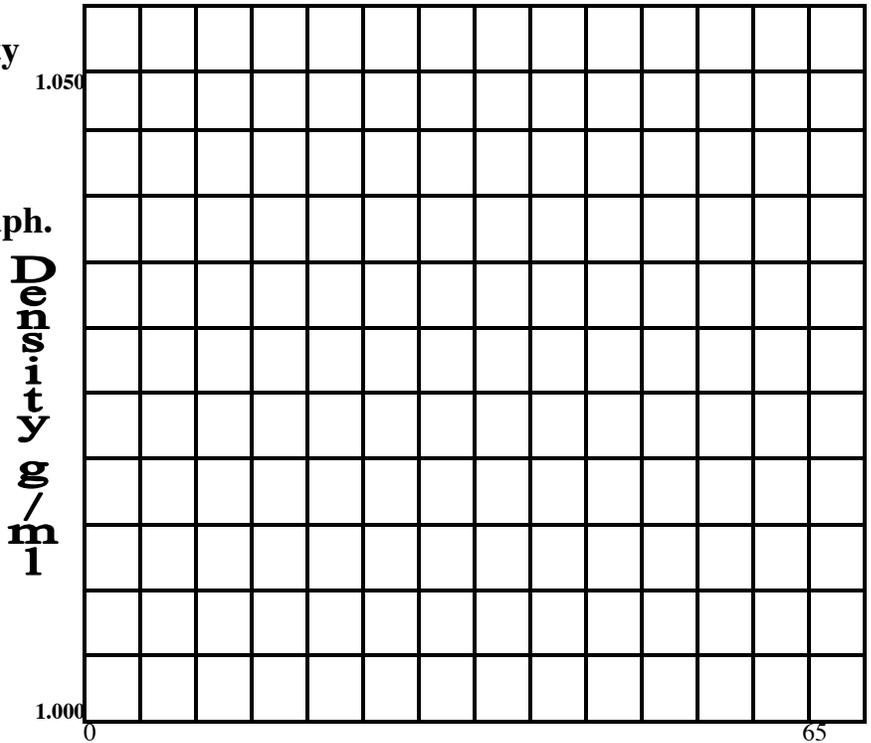


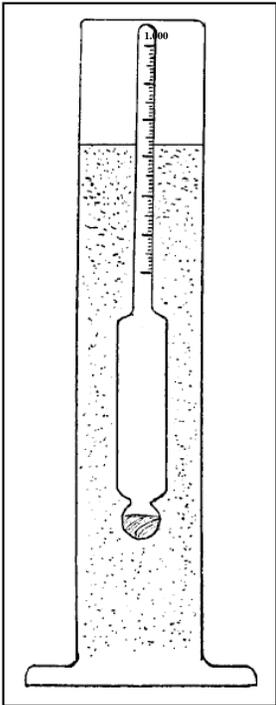
Using the information below, construct a graph of Density vs Salinity.

Given: A solution with a density of 1.081 g/ml has a salinity of 105‰

Make a standard reference graph.



For Problems # 3 & 4



QUESTIONS:

Salinity %

Fill in the correct answer in the space provided.

1. A salt solution with a density of 1.040 would have a salinity of
2. A salt solution with a density of 1.0125 would have a salinity of
3. A salt solution with a density of 1.0405 would have a salinity of
4. A salt solution with a density of 1.162 would have a salinity of
5. A sample of sea water with a salinity of 50‰ would have a density of _____
6. A sample of sea water with a salinity of 100‰ would have a density of _____
7. A sample of sea water with a salinity of 0‰ would have a density of _____
8. A sample of sea water with a salinity of 13‰ would have a density of _____

PROBLEMS: (show your work & remember units!)

1. If 400 ml of sea water are evaporated to dryness and 14 g of salt remains, what was the density of the sea water?
2. What is the density of a salt solution that is made by adding 22 g of salt to 978 ml water?
3. What is the density of the solution shown in the diagram?
4. What is the salinity of the solution shown in the diagram?
5. How many ml of water must be added to 28g salt to make a 14% solution?