

ES331 Oceanography – Practice Ocean Chemistry Problems

1. 225 g of NaCl is dissolved in 4.3 liters of water. Determine the following (show all of your math work):
 - a. salinity in ppt
 - b. salinity in ppm
 - c. salinity in ppb
 - d. The total no. of NaCl moles dissolved
 - e. The (salinity) molarity of the solution

2. 500 g of magnesium chloride and 400 g of sodium chloride are dissolved in 100 liters of water. Determine the following (show all of your math work):
 - f. total salinity in ppt
 - g. total salinity in ppm
 - h. total salinity in ppb
 - i. The total no. of sodium chloride moles dissolved
 - j. The total no. of magnesium chloride moles dissolved
 - k. The total (salinity) molarity of the solution