## PERCENT AND PARTS PER MILLION (ppm) WORKSHEET

Name\_\_\_\_\_

1. A solution is prepared by dissolving 50.0 g of cesium chloride (CsCl) in 50.0 g water. Calculate the mass % of cesium chloride in the solution.

2. A solution is prepared by dissolving 125 g sucrose  $(C_{12}H_{22}O_{11})$  in 135 g H<sub>2</sub>O. Calculate the mass % of sucrose in the solution.

3. How many grams of  $K_2SO_4$  would you need to prepare 1500 g of 5.0%  $K_2SO_4$  solution?

4. On average, glucose makes up about 0.10% of human blood, by mass. How many mg of glucose are there in 100.0 g of blood?

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5. Helium gas, 3.0 x 10<sup>-4</sup> g, is dissolved in 200 g of water. Express this concentration in parts per million and parts per million?.

6. A sample of 300.0 g of drinking water is found to contain 38 mg Pb. What is this concentration in parts per million?

7. A solution of lead sulfate (PbSO<sub>4</sub>) contains 0.425 ppm of lead sulfate in 100.0 g of water. How many mg of lead sulfate are there in this solution?

8. A 900.0 g sample of sea water is found to contain 6.7 ppm Zn. How many mg of Zn are in the sea water?