

## Worksheet 7

1. Complete the following table

Soluble or Insoluble?	Soluble	Insoluble
CuS		
K <sub>2</sub> S		
FeCl <sub>3</sub>		
C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> (Polar)		
Fe(OH) <sub>3</sub>		
HC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>		
PbI <sub>2</sub>		
CuSO <sub>4</sub>		
C <sub>8</sub> H <sub>18</sub> (nonpolar)		
Pb(NO <sub>3</sub> ) <sub>2</sub>		
H <sub>2</sub> SO <sub>4</sub>		
BaSO <sub>4</sub>		

Show all work and units

2. What is the % (v/v) concentration of 14.6 ml of alcohol dissolved in 104.5 grams of solution?

Answer \_\_\_\_\_

3. What is the % (m/m) concentration of 124.6 grams of glucose dissolved in 678.5 grams of water?

Answer \_\_\_\_\_

4. How many ml of a 2.4% (m/v) solution of KCl can be made using 350 g of solute in water?

5. Answer \_\_\_\_\_

6. What volume of 35% (v/v) aqueous solution can be made using 14.5 ml of alcohol.

7. Answer \_\_\_\_\_

8. What mass of glucose is needed to make 2.2 L of a 25 % (m/v) aqueous solution ?

9. Answer \_\_\_\_\_

10. How many ml of solute are needed to prepare 1,450 ml of a 72% (v/v) solution of alcohol in water?

11. Answer \_\_\_\_\_