**Mass Percent Problems % m/m**

**Mass Percent = Mass of solute (g) x 100**

**Mass of solution (g)**

Always write the formula!! I will take a mark off if you don’t!!

1) What is the concentration of a solution in mass percent if 25.00 g of solute are dissolved to make 150.00 g of solution?

2) What is the concentration of a solution in mass percent if 25.00 g of solute are dissolved in 150.00 g of water?

3) What is the concentration of a solution in % m/m if 15.00 g of NaCl are dissolved in 72.00 g of water?

4) How much solute has to be dissolved to make 65.00 g of 20. % m/m solution?

5) How many grams of solution must be made if 80.00 g of solute are dissolved to make a 35 % m/m solution?

6) What mass of solute must be dissolved to make 125.00 g of a 7.0 % solution?

7) What amount of water must be added to 28.00 g of solute to make an 11 % m/m solution?

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| --- | --- |
| 1) 16.7 % | 5) 228.6 g |
| 2) 14.3 % | 6) 8.75 g |
| 3) 17.2 % | 7) 226.50 g |
| 4) 13.00 g |  |