

Name _____

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Quiz 3 –Stoichiometry: Basic Steps

You will need to show your work and you will be graded on whether or not you have the correct answer. Your answer must be in the place provided. No Partial Credit.

1. How many grams of CaCl_2 are is 0.979 moles CaCl_2 ?

_____109 g CaCl_2 _____

2. How many moles of KI do you need to make a 1.3L solution of 0.987 M KCl?

_____1.3 moles_____

3. A solution is prepared with 17 grams of Ethanol, and 100 g of water. What is the mass % of ethanol in this solution?

_____15%_____

4. On average, an adult human has 2.5g of Zinc in their body. The average mass of adults is 83,500 g. What is the concentration of Zinc in average adult human. Give your answer in ppm.

_____30 ppm_____

5. A pie contains 24 crows (24 crows/1 pie). On average, crows weigh 5×10^2 grams (500 grams / 1 crow). What would be the mass of a crow pie? (The crust of the pie is very light, and its mass does not need to be considered in this problem.)

_____10,000 g_____