Quiz 1

Answer the questions. Be sure to justify your answer do not simply write the answer down. Use complete sentences where appropriate and scrap paper if needed (on the desk at the front of class, scrap paper must be turned in but will not be graded for work). Circle or box your answer where appropriate. You may ask questions about the wording of a question or to clarify the instructions.

1. Define "relative frequency" and "uniform distribution". Use complete sentences.(1 pt. each)

2. A pizza parlor offers three sizes of pizza with 8 possible toppings, one of which is pepperoni. How many different large, three topping pizzas where one of the toppings is pepperoni could the pizza parlor make? If three friends each order a random pizza (meaning that the size, toppings are randomly chosen and are equally likely) what is the chance that exactly two of them get the same size pizzas? (10 pts.)

3. Three friends Abe, Braum, and Cia go to subway and order their favorite sandwich (which are all different). However, the worker making the subs forgets who ordered which sub and hands them back randomly. What is the probability that they all receive the sub they ordered? What is the probability that nobody gets the right sub? (8 pts.)