QUIZ #1

1. Number variables in Java have several different types – please describe these two below, and why you might use one or the other. (1pt extra credit: can you name two more variable types of any kind?)

2. Sketches and shapes in Processing are measured in what unit? Where is the 0,0 origin located? Extra credit: How do you change the origin, and what other transformations are possible?

3. How is color listed in Processing by default? List both the abbreviation and what it stands for, as well as the number range used. (1pt extra credit: can you name another color model that Processing accepts?)

4. Iteration is a process of incrementing and is key to much of programming. Can you write a for-loop that counts from 0-9, printing the values to the console?

5. The other key topic in programming we covered so far is recursion. What are the two requirements of a recursive function? What happens if the function doesn't have the second requirement?

6. Make a drawing (of anything) that shows recursion (can be simple). Briefly describe how it exhibits recursion. (5pts extra credit: can you write a recursive function that counts from 0-9, like question #4?)