Quiz 5

1. For questions, assume that you are dealing with the Latin alphabet (all lowercase), and that a “word” implies letters arranged in a line, not a word that can be found in a dictionary. Also, assume that the letter “y” can be considered as either a vowel or a consonant.
   
a. (2 points) How many 4-letter words can you make?

b. (2 points) How many 4-letter words can you make that have a vowel as their 2nd letter?

c. (2 points) What is the probability that you pick a 4-letter word that has a vowel as its 2nd letter?

2. (2 points) How many ways are there to put 5 people in a line?

3. (2 points) How many ways are there to choose 3 pieces of candy from a bowl which contains one jolly rancher, one jaw breaker, one pack of M&Ms, one piece of licorice, one milky way, one York peppermint patty, one turtle (the candy not the animal), one dum-dum, one Hershey’s kiss, one piece of fudge, one pixy stick, one piece of gum, and one old penny?